



REPORT

Level One Inspection and Testing Services

**Meridian Estate Stage 9B,
Lots 9040 to 9062, 9065 to 9070, 9072 to
9081 and the Reserve area**

Prepared for:

Brown Property Group Pty Ltd

January 2020

Our Ref: 3807351.009B.v1

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

Document Control

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Brown Property Group Pty Ltd

1 electronic copy

Chadwick Geotechnics Pty Ltd (FILE)

1 electronic copy

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1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics) was engaged by Brown Property Group Pty Ltd, to provide Level 1 Inspection and Testing services for the earthworks within the Meridian Estate Stage 9A site located in Clyde North.

2 Project details

The project included the preparation and filling of Lots 9040 to 9062, 9065 to 9070, 9072 to 9081 and the Reserve area. 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.

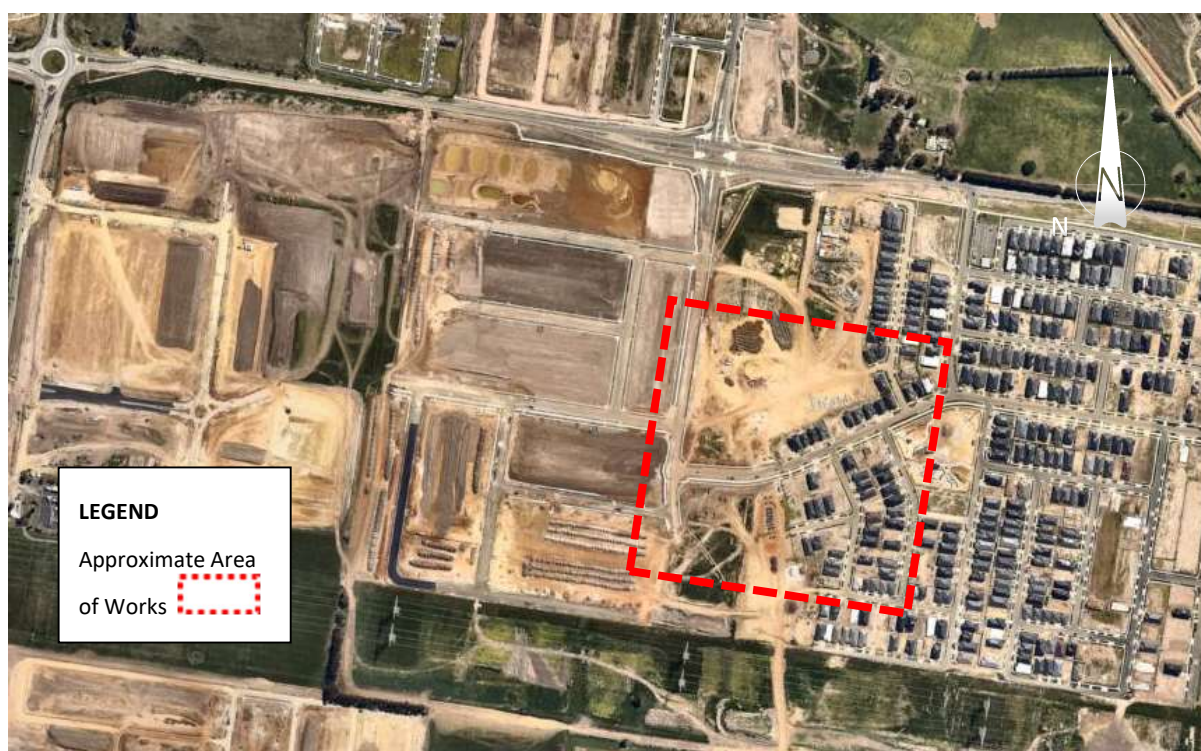


Figure 1: Approximate site location (Image sourced from Nearmaps)

3 Geology

Published information¹ shows that the site is underlain by various geologies, they are;

- Quaternary Age Unnamed incised alluvium deposits formation (Na) comprising of alluvium, colluvium: gravel, sand, silt, clay, limestone.
- Neogene Age Brighton Group Formation (Nbh) comprising of Fluvial and marginal marine deposits: gravel, sand, calcarenite, silt, clay. Includes Parilla Sand.

4 Specification

A summary of the specification is shown below:

Compaction Requirement	95% Standard Compaction
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5 Inspection and testing

The inspection and testing of earthworks has been carried out in accordance with AS3798-2007, 'Guidelines on earthworks for commercial and residential developments', with a frequency of field density tests as per a type one project (large scale operation). Compaction control laboratory testing was undertaken in our NATA accredited Dandenong South laboratory in accordance with AS1289 'Methods of Testing Soils for Engineering Purposes'.

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

Full time Level 1 Inspection and Testing of the filling operations commenced in June 2017 and was completed in January 2020. During this period Chadwick Geotechnics observed the earthworks undertaken. The filling process was not continual for this entire period, the earthwork contractor undertook works as discreet packages across the Meridian Estate during the period mentioned, Chadwick Geotechnics were on site when filling works occurred. Earthwork operations included the supply of material, conditioning of material (moisture conditioning and oversize removal), placement and compaction of the fill material.

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

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

A total of thirty five (35) density and moisture content tests were performed across the Stage 9B site.

The results show that one (1) test failed to meet the specification requirements for the project. The earthworks contractor was advised of the test that failed and the fill relevant to the area was reworked, reconditioned, re-compacted and subsequently retested. The final results show the tests achieved the specification requirements for the project.

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

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

6 Conclusion

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

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

It is our opinion that the earthworks undertaken have been performed in accordance with the requirements of Section 8.2 of AS3798-2007 - Level 1 Inspection and Testing.

7 Applicability

This report has been prepared for the exclusive use of our client Brown Property Group Pty Ltd in good faith and in accordance with the Chadwick Geotechnics quality system for the earthworks filling at the site.

This report is based on the nature of the project and the conditions present in, factors affecting the soil at the time of the inspections, namely June 2017 to January 2020. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there has been a change in the nature of the project or the conditions on site that may alter or affect the conclusions of this report.

Should you require any further information regarding this report, please do not hesitate to contact the undersigned on (03) 8796 7900.

Chadwick Geotechnics Pty Ltd

Report prepared by:



.....

Robert Barden
Geotechnical Engineer

Authorised for Chadwick Geotechnics Pty Ltd by:



.....

Timothy Chadwick
Project Director

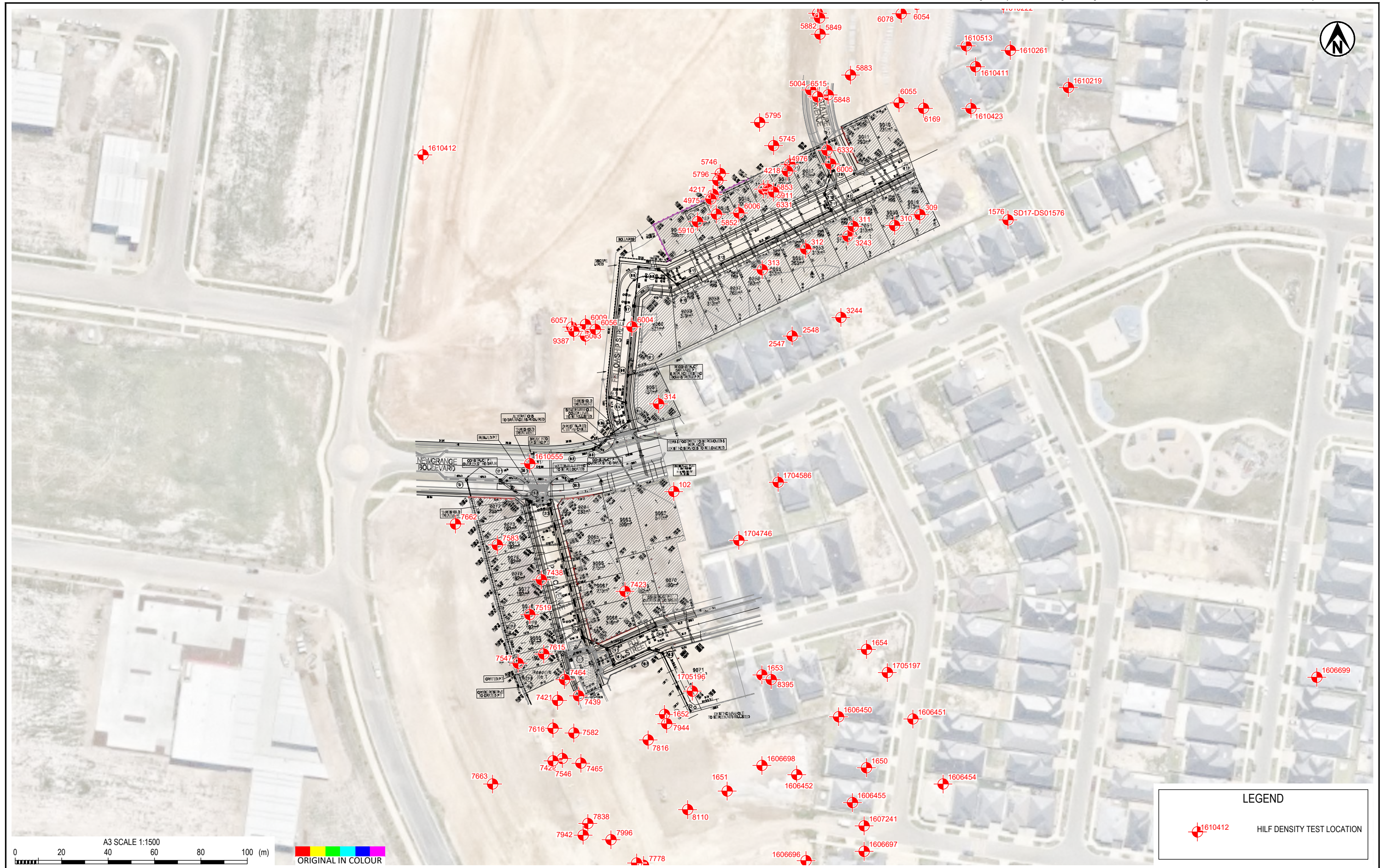
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www.chadwickgeotechnics.com.au

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Appendix A: Density Test Location Plan



LEGEND

 1610412 HILF DENSITY TEST LOCATION

NOTE

1. AERIAL PHOTO SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 24/10/2019.

PROJECT No. 3807351.09B

CLIENT GROSVENER LODGE PTY LTD

DESIGNED		Jan.20
DRAWN	SHLI	Jan.20
CHECKED		

PROJECT MERIDIAN ESTATE - STAGE 09B

TITLE
UNDER REVISION 1
HILF DENSITY TEST LOCATION PLAN

SCALE (A3) 1:1500

FIG No. 3807351.09B-F1

REV 1

Appendix B: Table of field density results



Hilf Summary Table

3807351.009B Meridian Estate Stage 9B

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 (±3%)	Pass / Fail	Remarks
HDR:W17DS00893	3243	15/06/2017	1	354853	5782512		98.5	omc	Pass	
HDR:W17DS00893	3244	15/06/2017	2	354850	5782477		103.5	1 wet	Pass	
HDR:W17DS02277	8395	10/11/2017	1	354820	5782321		103.5	3 dry	Pass	Retest of 1653
HDR:W19DS01250	4217	16/05/2019	1	354795	5782530	30.72	100	0.5 dry	Pass	
HDR:W19DS01250	4218	16/05/2019	2	354827	5782540	31.390	99	0.1 dry	Pass	
HDR:W19DS01276	4326	17/05/2019	1	354854	5782703	30.260	95	1.8 dry	Pass	
HDR:W19DS01276	4327	17/05/2019	2	354854	5782716	29.990	99.5	1.5 dry	Pass	
HDR:W19DS01292	4372	20/05/2019	1	354891	5782727	30.620	101	OMC	Pass	
HDR:W19DS01292	4373	20/05/2019	2	354888	5782701	30.390	102	4.2 dry	Pass	
HDR:W19DS01303	4438	21/05/2019	1	354862	5782693	30.580	97	OMC	Pass	
HDR:W19DS01303	4439	21/05/2019	2	354892	5782700	30.620	96	1.9 dry	Pass	
HDR:W19DS01320	4495	22/05/2019	1	354889	5782660		91.5	0.4 wet	Fail	Area reworked, see 4604
HDR:W19DS01320	4496	22/05/2019	2	354895	5782714		94	0.1 wet	Fail	Area reworked, see 4605
HDR:W19DS01339	4593	23/05/2019	1	354861	5782741	29.990	94.5	1.8 dry	Fail	Area reworked, see 6077
HDR:W19DS01339	4594	23/05/2019	2	354849	5782686	30.590	95.5	1.7 dry	Pass	
HDR:W19DS01343	4604	24/05/2019	1	354880	5782657	30.960	98.5	0.2 wet	Pass	Retest of 4495
HDR:W19DS01343	4605	24/05/2019	2	354886	5782703	30.830	98.5	0.8 wet	Pass	Retest of 4496
HDR:W19DS01442	4975	12/06/2019	1	354794	5782528	31.360	101	0.3 wet	Pass	
HDR:W19DS01442	4976	12/06/2019	2	354828	5782543	31.870	99.5	2.6 wet	Pass	



Hilf Summary Table

3807351.009B Meridian Estate Stage 9B

Chadwick Geotechnics
 25 Metcalf Street
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 Tel : (03) 8796 7900
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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 (±3%)	Pass / Fail	Remarks
HDR:W19DS01456	5003	17/06/2019	1	354840	5782608	31.170	100.5	2.4 wet	Pass	
HDR:W19DS01456	5004	17/06/2019	2	354837	5782575	31.270	97.5	2.8 wet	Pass	
HDR:W19DS01673	5745	25/07/2019	1	354821	5782551		95.5	0.1 wet	Pass	
HDR:W19DS01673	5746	25/07/2019	2	354798	5782539		97	1.6 wet	Pass	
HDR:W19DS01693	5795	26/07/2019	1	354815	5782561		95	2.3 wet	Pass	
HDR:W19DS01693	5796	26/07/2019	2	354797	5782536		98.5	0.6 wet	Pass	
HDR:W19DS01709	5852	29/07/2019	1	354796	5782521	31.842	96.5	1.6 wet	Pass	
HDR:W19DS01709	5853	29/07/2019	2	354817	5782532	32.277	96	1.5 wet	Pass	
HDR:W19DS01707	5848	29/07/2019	1	354845	5782573	31.695	100	0.6 wet	Pass	
HDR:W19DS01707	5849	29/07/2019	2	354841	5782599	31.450	98.5	0.9 wet	Pass	
HDR:W19DS01721	5882	30/07/2019	1	354841	5782606	31.599	103	0.3 wet	Pass	
HDR:W19DS01721	5883	30/07/2019	2	354854	5782581	32.147	97.5	0.5 wet	Pass	
HDR:W19DS01731	5910	31/07/2019	1	354788	5782518	31.953	98.5	0.6 wet	Pass	
HDR:W19DS01731	5911	31/07/2019	2	354819	5782532	32.640	97	1.6 wet	Pass	
HDR:W19DS01746	6003	1/08/2019	1	354740	5782469	L1	99	0.2 wet	Pass	
HDR:W19DS01746	6004	1/08/2019	2	354760	5782473	L2	97	1.4 dry	Pass	
HDR:W19DS01746	6005	1/08/2019	3	354846	5782543	32.769	100.5	OMC	Pass	
HDR:W19DS01746	6006	1/08/2019	4	354806	5782522	32.628	98	0.5 wet	Pass	
HDR:W19DS01746	6007	1/08/2019	5	354883	5782695	30.195	98.5	0.4 wet	Pass	
HDR:W19DS01746	6008	1/08/2019	6	354887	5782648	31.143	98.5	0.5 wet	Pass	
HDR:W19DS01746	6009	1/08/2019	7	354740	5782474	L3	95	0.1 wet	Pass	



Hilf Summary Table

3807351.009B Meridian Estate Stage 9B

Chadwick Geotechnics
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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 (±3%)	Pass / Fail	Remarks
HDR:W19DS01765	6054	2/08/2019	1	354883	5782612	31.753	95	0.1 wet	Pass	
HDR:W19DS01765	6055	2/08/2019	2	354875	5782569	32.594	99	0.1 dry	Pass	
HDR:W19DS01765	6056	2/08/2019	3	354744	5782472	30.026	99	2.3 wet	Pass	
HDR:W19DS01765	6057	2/08/2019	4	354734	5782473	29.605	92	2.1 wet	Fail	See Retest 9387
HDR:W19DS01772	6077	5/08/2019	1	354862	5782755	29.883	98.5	2.1 wet	Pass	Retest of 4593
HDR:W19DS01772	6078	5/08/2019	2	354876	5782608	31.789	101	OMC	Pass	
HDR:W19DS01772	6079	5/08/2019	3	354894	5782648	31.515	98.5	0.1 dry	Pass	
HDR:W19DS01804	6169	7/08/2019	1	354886	5782567	33.071	103	2.2 dry	Pass	
HDR:W19DS01804	6170	7/08/2019	2	354849	5782711	30.323	100.5	OMC	Pass	
HDR:W19DS01804	6171	7/08/2019	3	354866	5782742	30.433	100.5	0.1 wet	Pass	
HDR:W19DS01860	6331	20/08/2019	1	354821	5782531	33.200	103	0.5 dry	Pass	
HDR:W19DS01860	6332	20/08/2019	2	354844	5782549	33.300	101.5	OMC	Pass	
HDR:W19DS01918	6515	28/08/2019	1	354840	5782572	32.200	95.5	2.7 wet	Pass	
HDR:W19DS02117	7423	25/09/2019	1	354757	5782359		108.5	3.0 dry	Pass	
HDR:W19DS02116	7421	25/09/2019	1	354728	5782312		103	3.0 wet	Pass	
HDR:W19DS02116	7422	25/09/2019	2	354730	5782287		103.5	0.2 wet	Pass	
HDR:W19DS02123	7438	26/09/2019	1	354721	5782364	31.050	101.5	1.9 dry	Pass	
HDR:W19DS02123	7439	26/09/2019	2	354737	5782314	31.120	100	0.9 dry	Pass	
HDR:W19DS02133	7464	30/09/2019	1	354731	5782321	30.700	108.5	2.9 dry	Pass	
HDR:W19DS02133	7465	30/09/2019	2	354738	5782285	30.860	101	2.0 dry	Pass	
HDR:W19DS02143	7519	1/10/2019	1	354716	5782349	30.880	99.5	1.9 wet	Pass	
HDR:W19DS02154	7546	2/10/2019	1	354726	5782286	30.800	99	0.3 wet	Pass	



Hilf Summary Table

Chadwick Geotechnics
 25 Metcalf Street
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 Tel : (03) 8796 7900
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3807351.009B Meridian Estate Stage 9B

Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (≥95%)	Moisture Variation From OMC (±3%)	Pass / Fail	Remarks
HDR:W19DS02154	7547	2/10/2019	2	354711	5782328	30.700	97.5	1.8 wet	Pass	
HDR:W19DS02168	7582	3/10/2019	1	354735	5782298	31.260	101	0.9 wet	Pass	
HDR:W19DS02168	7583	3/10/2019	2	354702	5782379	30.560	97	3.1 wet	Pass	
HDR:W19DS02181	7613	4/10/2019	1	354895	5782729	31.100	105	1.8 dry	Pass	
HDR:W19DS02181	7614	4/10/2019	2	354891	5782689	31.170	102.5	0.6 dry	Pass	
HDR:W19DS02181	7615	4/10/2019	3	354722	5782332	31.280	101.5	2.0 dry	Pass	
HDR:W19DS02181	7616	4/10/2019	4	354726	5782300	31.150	100.5	0.5 dry	Pass	
HDR:W19DS02199	7662	7/10/2019	1	354684	5782388	29.647	102	0.6 dry	Pass	
HDR:W19DS02199	7663	7/10/2019	2	354700	5782276	29.990	99	OMC	Pass	
HDR:W19DS02229	7778	10/10/2019	1	354765	5782241	31.170	104	2.0 dry	Pass	
HDR:W19DS02235	7786	10/10/2019	1	354728	5782791	28.540	99	1.8 dry	Pass	
HDR:W19DS02235	7787	10/10/2019	2	354702	5782762	28.520	102	0.3 wet	Pass	
HDR:W19DS02243	7819	11/10/2019	1	354706	5782783	28.750	108.5	2.8 dry	Pass	
HDR:W19DS02242	7816	11/10/2019	1	354767	5782295	31.960	97	0.6 dry	Pass	
HDR:W19DS02242	7817	11/10/2019	2	354745	5782221	30.830	95.5	1.9 wet	Pass	
HDR:W19DS02242	7818	11/10/2019	3	354764	5782212	30.850	98	0.7 wet	Pass	
HDR:W19DS02250	7838	14/10/2019	1	354741	5782259	31.160	99.5	0.1 wet	Pass	
HDR:W19DS02250	7839	14/10/2019	2	354753	5782213	31.070	97	1.8 wet	Pass	
HDR:W19DS02250	7840	14/10/2019	3	354777	5782203	31.250	95	0.1 wet	Pass	
HDR:W19DS02250	7841	14/10/2019	4	354762	5782242	31.220	96.5	0.2 dry	Pass	

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 Clyde Stage 7
Project No.: 3807351.007
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing



Accreditation No. 12719

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

Approved Signatory: M. Robinson
 (Senior Technician)

12712 Date of Issue: 19/06/2017

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Stage 7
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: General Fill

Sample Data

Sample ID	S17DS-03243	S17DS-03244			
Field Sample ID	1	2			
Date Tested	15/06/2017	15/06/2017			
E	354853	354850			
N	5782512	5782477			
Soil Description	Clay	Clay			

Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m ³)	2.11	2.20			
Peak Converted Wet Density (t/m ³)	2.14	2.13			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	1.0 wet			
Hilf Density Ratio (%)	98.5	103.5			

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Clyde Stage 7
Project No.: 3807351.007
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing



Accreditation No. 12719

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

Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 14/11/2017

12712

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample Data

Sample ID	S17DS-08395				
Field Sample ID	1				
Date Tested	10/11/2017				
E	354820				
N	5782321				
Soil Description	Clay				

Field and Laboratory Data

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

Comments



Dandenong South
ACN 143 009 330
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Report No: HDR:W19DS01250

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing

K. B. Patel

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

Approved Signatory: Krushik Patel
 (Senior Geotechnician)
 Date of Issue: 29/05/2019

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: Clay

Sample ID	S19DS-04217	S19DS-04218	
Field Sample ID	1	2	
Date Tested	16/05/2019	16/05/2019	
E:	354795	354827	
N:	5782530	5782540	
RL:	30.72	31.39	
Depth of Test (mm)	150	150	
Depth of Layer (mm)	200	200	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	11	8	
Field Wet Density (t/m ³)	2.21	2.14	
Peak Converted Wet Density (t/m ³)	2.21	2.16	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	0.5 dry	0.0	
Hilf Density Ratio (%)	100.0	99.0	

Comments



Dandenong South
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Report No: HDR:W19DS01276

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

Accredited for compliance with ISO/IEC 17025
 - Testing

K. B. Patel

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

Approved Signatory: Krushik Patel
 (Senior Geotechnician)
 Date of Issue: 29/05/2019

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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	S19DS-04326	S19DS-04327	
Field Sample ID	1	2	
Date Tested	17/05/2019	17/05/2019	
Location	354854	354854	
E	5782703	5782716	
N	RL 30.26 m	RL 29.99 m	
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/m ³)	1.89	1.99	
Peak Converted Wet Density (t/m ³)	1.98	2.00	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	2.0 dry	1.5 dry	
Hilf Density Ratio (%)	95.0	99.5	

Comments



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Report No: HDR:W19DS01292



Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

Accredited for compliance with ISO/IEC 17025
 - Testing

K. B. Patel

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Approved Signatory: Krushik Patel
 (Senior Geotechnician)

12712 Date of Issue: 29/05/2019
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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-04372	S19DS-04373	
Field Sample ID	1	2	
Date Tested	20/05/2019	20/05/2019	
Location	354891	354888	
E	5782727	5782701	
N	RL 30.62 m	RL 30.39 m	
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/m ³)	2.06	1.93	
Peak Converted Wet Density (t/m ³)	2.04	1.89	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	0.0	4.0 dry	
Hilf Density Ratio (%)	101.0	102.0	

Comments



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Report No: HDR:W19DS01303



Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

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Approved Signatory: Krushik Patel
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12712 Date of Issue: 29/05/2019
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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-04438	S19DS-04439	
Field Sample ID	1	2	
Date Tested	21/05/2019	21/05/2019	
Location	354862	354892	
E	5782693	5782700	
N	RL 30.58 m	RL 30.62 m	
		re-test	
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/m ³)	1.97	1.90	
Peak Converted Wet Density (t/m ³)	2.03	1.98	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	0.0	2.0 dry	
Hilf Density Ratio (%)	97.0	96.0	

Comments



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Report No: HDR:W19DS01320

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

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 (Senior Geotechnician)
 Date of Issue: 29/05/2019

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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-04495	S19DS-04496	
Field Sample ID	1	2	
Date Tested	22/05/2019	22/05/2019	
Location	354889	354895	
E	5782660	5782714	
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 (%)	3	0	
Field Wet Density (t/m ³)	1.90	1.97	
Peak Converted Wet Density (t/m ³)	2.08	2.10	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	0.5 wet	0.0	
Hilf Density Ratio (%)	91.5	94.0	

Comments



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Report No: HDR:W19DS01339

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

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Approved Signatory: Krushik Patel
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 Date of Issue: 29/05/2019

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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-04593	S19DS-04594	
Field Sample ID	1	2	
Date Tested	23/05/2019	23/05/2019	
Location	354861	354849	
E	5782741	5782686	
N	29.99	30.59	
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	1.96	
Peak Converted Wet Density (t/m³)	2.05	2.06	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	2.0 dry	1.5 dry	
Hilf Density Ratio (%)	94.5	95.5	

Comments



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Report No: HDR:W19DS01343

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:
CG Request No.:
Lot No.:

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Approved Signatory: Krushik Patel
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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-04604	S19DS-04605	
Field Sample ID	1	2	
Date Tested	24/05/2019	24/05/2019	
Location	354880	354886	
E	5782657	5782703	
N	RL 30.96 m	RL 30.83 m	
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/m ³)	2.02	2.03	
Peak Converted Wet Density (t/m ³)	2.05	2.06	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	0.0	1.0 wet	
Hilf Density Ratio (%)	98.5	98.5	

Comments



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Report No: HDR:W19DS01442

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
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Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 17/06/2019

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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-04975	S19DS-04976			
Field Sample ID	1	2			
Date Tested	12/06/2019	12/06/2019			
Location	354794	354828			
E	5782528	5782543			
N	RL 31.36 m	RL 31.87 m			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.07	1.99			
Peak Converted Wet Density (t/m³)	2.05	2.00			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	2.5 wet			
Hilf Density Ratio (%)	101.0	99.5			

Comments



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Report No: HDR:W19DS01456

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
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Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 20/06/2019
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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-05003	S19DS-05004			
Field Sample ID	1	2			
Date Tested	17/06/2019	17/06/2019			
Location	354840	354837			
E	5782608	5782575			
N	RL 31.17 m	RL 31.27			
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)	1.98	1.97			
Peak Converted Wet Density (t/m³)	1.97	2.02			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.5 wet	3.0 wet			
Hilf Density Ratio (%)	100.5	97.5			

Comments



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Report No: HDR:W19DS01673

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 1/08/2019

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Sample Details

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

Sample ID	S19DS-05745	S19DS-05746			
Field Sample ID	1	2			
Date Tested	25/07/2019	25/07/2019			
E:	354821	354798			
N:	5782551	5782539			
Soil Description	CLAY	CLAY			
Depth of Test (mm)	125	125			
Depth of Layer (mm)	150	150			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	14			
Field Wet Density (t/m³)	1.93	2.09			
Peak Converted Wet Density (t/m³)	2.02	2.15			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	1.5 wet			
Hilf Density Ratio (%)	95.5	97.0			

Comments



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Report No: HDR:W19DS01693

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
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 Date of Issue: 1/08/2019

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Sample Details

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

Sample ID	S19DS-05795	S19DS-05796			
Field Sample ID	1	2			
Date Tested	26/07/2019	26/07/2019			
E	354815	354797			
N	5782561	5782536			
Soil Description	CLAY	CLAY			
Depth of Test (mm)	125	125			
Depth of Layer (mm)	150	150			
Field Wet Density (t/m ³)	1.95	2.01			
Peak Converted Wet Density (t/m ³)	2.05	2.04			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.5 wet	0.5 wet			
Hilf Density Ratio (%)	95.0	98.5			

Comments



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Report No: HDR:W19DS01707

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
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 Date of Issue: 1/08/2019

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Sample Details

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

Sample ID	S19DS-05848	S19DS-05849			
Field Sample ID	1	2			
Date Tested	29/07/2019	29/07/2019			
E:	354844.510	354841.320			
N:	5782572.821	578299.012			
EL:	31.695	31.450			
Soil Description	CLAY	CLAY			
Depth of Test (mm)	125	125			
Depth of Layer (mm)	150	150			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.04	2.05			
Peak Converted Wet Density (t/m³)	2.04	2.07			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	1.0 wet			
Hilf Density Ratio (%)	100.0	98.5			

Comments



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Report No: HDR:W19DS01709

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
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Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 Date of Issue: 1/08/2019

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Sample Details

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

Sample ID	S19DS-05852	S19DS-05853			
Field Sample ID	1	2			
Date Tested	29/07/2019	29/07/2019			
E:	354796.397	354816.633			
N:	5782521.483	5782532.281			
EL:	31.842	32.277			
Soil Description	CLAY	CLAY			
Depth of Test (mm)	125	125			
Depth of Layer (mm)	150	150			
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)	2.03	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.5 wet	1.5 wet			
Hilf Density Ratio (%)	96.5	96.0			

Comments



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Report No: HDR:W19DS01721

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
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Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 Date of Issue: 1/08/2019

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Sample Details

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

Sample ID	S19DS-05882	S19DS-05883			
Field Sample ID	1	2			
Date Tested	30/07/2019	30/07/2019			
E:	354840.799	354854.167			
N:	5782606.010	5782581.391			
EL:	31.599	32.147			
Soil Description	CLAY	CLAY			
Depth of Test (mm)	125	125			
Depth of Layer (mm)	150	150			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.04	1.94			
Peak Converted Wet Density (t/m³)	1.98	1.99			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	0.5 wet			
Hilf Density Ratio (%)	103.0	97.5			

Comments



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Report No: HDR:W19DS01731

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
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Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
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Sample Details

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

Sample ID	S19DS-05910	S19DS-05911			
Field Sample ID	1	2			
Date Tested	31/07/2019	31/07/2019			
E:	354788.222	354818.613			
N:	5782518.252	5782532.174			
EL:	31.953	32.640			
Soil Description	CLAY	CLAY			
Depth of Test (mm)	125	125			
Depth of Layer (mm)	150	150			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m ³)	2.03	1.99			
Peak Converted Wet Density (t/m ³)	2.06	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	1.5 wet			
Hilf Density Ratio (%)	98.5	97.0			

Comments



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Ph: + 61 3 8796 7900
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Report No: HDR:W19DS01746

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
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. Robinson
 (Team Leader)
 Date of Issue: 7/08/2019

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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-06003	S19DS-06004	S19DS-06005	S19DS-06006	S19DS-06007	S19DS-06008
Field Sample ID	1	2	3	4	5	6
Date Tested	1/08/2019	1/08/2019	1/08/2019	1/08/2019	1/08/2019	1/08/2019
E	354740	354760	354845.573	354806.259	354883.353	354887.186
N	5782469	5782473	5782543.119	578522.379	5782694.548	5782647.726
RL	Layer 1	Layer 2	32.769	32.628	30.195	31.143
	Septic Tank Area	Septic Tank Area				
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay	Silty Gravelly Clay
Depth of Test (mm)	225	175	175	175	175	175
Depth of Layer (mm)	250	200	200	200	200	200
AS Sieve Size (mm)	19.0	37.5	19.0	19.0	19.0	19.0
Oversize Wet (%)	28	12	0	0	3	3
Field Wet Density (t/m³)	2.20	2.11	2.07	2.03	2.00	2.06
Peak Converted Wet Density (t/m³)	2.23	2.19	2.05	2.07	2.03	2.09
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.0	1.5 dry	0.0	0.5 wet	0.5 wet	0.5 wet
Hilf Density Ratio (%)	98.5	96.5	100.5	98.0	98.5	98.5

Comments



Dandenong South
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Report No: HDR:W19DS01746

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 7/08/2019

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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-06009				
Field Sample ID	7				
Date Tested	1/08/2019				
E	354740				
N	5782474				
RL	Layer 3				
	Septic Tank Area				
Soil Description	Silty Gravelly Clay				
Depth of Test (mm)	175				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	8				
Field Wet Density (t/m³)	2.04				
Peak Converted Wet Density (t/m³)	2.14				
Compactive Effort	Standard				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	95.0				

Comments



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Report No: HDR:W19DS01765

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing

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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 7/08/2019

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Sample Details

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

Sample ID	S19DS-06054	S19DS-06055	S19DS-06056	S19DS-06057		
Field Sample ID	1	2	3	4		
Date Tested	2/08/2019	2/08/2019	2/08/2019	2/08/2019		
E:	354882.789	354875.058	354744.273	354734.094		
N:	5782611.888	5782569.431	5782471.848	5782472.840		
EL:	31.753	32.594	30.026	29.605		
Soil Description	CLAY	CLAY	CLAY	CLAY		
Depth of Test (mm)	125	125	125	125		
Depth of Layer (mm)	150	150	150	150		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	5		
Field Wet Density (t/m³)	1.92	1.96	2.08	1.98		
Peak Converted Wet Density (t/m³)	2.02	1.98	2.09	2.14		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.0	0.0	2.5 wet	2.0 wet		
Hilf Density Ratio (%)	95.0	99.0	99.0	92.0		

Comments



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Report No: HDR:W19DS01772

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 7/08/2019

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Sample Details

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

Sample ID	S19DS-06077	S19DS-06078	S19DS-06079		
Field Sample ID	1	2	3		
Date Tested	5/08/2019	5/08/2019	5/08/2019		
E:	354862.153	354876.012	354894.059		
N:	5782754.995	5782607.847	5782647.665		
	29.883	31.789	31.515		
Soil Description	CLAY	CLAY	CLAY		
Depth of Test (mm)	125	125	125		
Depth of Layer (mm)	150	150	150		
Field Wet Density (t/m ³)	2.01	2.06	2.07		
Peak Converted Wet Density (t/m ³)	2.05	2.04	2.10		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	2.0 wet	0.0	0.0		
Hilf Density Ratio (%)	98.5	101.0	98.5		

Comments



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Report No: HDR:W19DS01804

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing

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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 12/08/2019

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Sample Details

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

Sample ID	S19DS-06169	S19DS-06170	S19DS-06171		
Field Sample ID	1	2	3		
Date Tested	7/08/2019	7/08/2019	7/08/2019		
E:	354885.585	354849.498	354866.286		
N:	5782567.058	5782710.749	5782742.401		
EL:	33.071	30.323	30.433		
Soil Description	Clay	Clay	Clay		
Depth of Test (mm)	125	125	125		
Depth of Layer (mm)	150	150	150		
AS Sieve Size (mm)	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0		
Field Wet Density (t/m³)	2.04	2.05	2.13		
Peak Converted Wet Density (t/m³)	1.98	2.04	2.11		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	2.0 dry	0.0	0.0		
Hilf Density Ratio (%)	103.0	100.5	100.5		

Comments



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Report No: HDR:W19DS01860

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 22/08/2019

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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-06331	S19DS-06332			
Field Sample ID	1	2			
Date Tested	20/08/2019	20/08/2019			
Location	354821	354844			
E	5782531	5782549			
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 (%)	9	5			
Field Wet Density (t/m³)	2.16	2.19			
Peak Converted Wet Density (t/m³)	2.10	2.16			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 dry	0.0			
Hilf Density Ratio (%)	103.0	101.5			

Comments



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Report No: HDR:W19DS01918

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
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: 6/09/2019
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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-06515				
Field Sample ID	1				
Date Tested	28/08/2019				
Location	354840				
E	5782572				
N	RL 32.20 m				
Soil Description	Clay				
Depth of Test (mm)	150				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	2.00				
Peak Converted Wet Density (t/m³)	2.10				
Compactive Effort	Standard				
Moisture Variation (%)	2.5 wet				
Hilf Density Ratio (%)	95.5				

Comments



Dandenong South
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Report No: HDR:W19DS02116

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 30/09/2019

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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-07421	S19DS-07422			
Field Sample ID	1	2			
Date Tested	25/09/2019	25/09/2019			
Location	354728	354730			
E	5782312	5782287			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.10	2.07			
Peak Converted Wet Density (t/m³)	2.04	2.00			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	3.0 wet	0.0			
Hilf Density Ratio (%)	103.0	103.5			

Comments



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Report No: HDR:W19DS02117

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
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: 30/09/2019
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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-07423				
Field Sample ID	1				
Date Tested	25/09/2019				
Location	354757				
E	5782359				
Soil Description	Clay				
Depth of Test (mm)	150				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	2.03				
Peak Converted Wet Density (t/m³)	1.87				
Compactive Effort	Standard				
Moisture Variation (%)	3.0 dry				
Hilf Density Ratio (%)	108.5				

Comments



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Report No: HDR:W19DS02123

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 30/09/2019
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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-07438	S19DS-07439			
Field Sample ID	1	2			
Date Tested	26/09/2019	26/09/2019			
Location	354721	354737			
E	5782364	5782314			
N	RL 31.05 m	RL 31.12 m			
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 (%)	2	0			
Field Wet Density (t/m ³)	2.03	2.05			
Peak Converted Wet Density (t/m ³)	2.01	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	1.0 dry			
Hilf Density Ratio (%)	101.5	100.0			

Comments



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Report No: HDR:W19DS02133

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing



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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 4/10/2019

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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-07464	S19DS-07465			
Field Sample ID	1	2			
Date Tested	30/09/2019	30/09/2019			
E	354731	354738			
N	5782321	5782285			
	RL 30.70 m	RL 30.86			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.05	2.04			
Peak Converted Wet Density (t/m³)	1.89	2.02			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	3.0 dry	2.0 dry			
Hilf Density Ratio (%)	108.5	101.0			

Comments



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Report No: HDR:W19DS02143

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 4/10/2019

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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-07519				
Field Sample ID	1				
Date Tested	1/10/2019				
E	354716				
N	5782349				
	RL 30.88 m				
Soil Description	Clay				
Depth of Test (mm)	150				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	2.06				
Peak Converted Wet Density (t/m³)	2.07				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 wet				
Hilf Density Ratio (%)	99.5				

Comments



Dandenong South
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Report No: HDR:W19DS02154

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 4/10/2019

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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-07546	S19DS-07547			
Field Sample ID	1	2			
Date Tested	2/10/2019	2/10/2019			
E	354726	354711			
N	5782286	5782328			
	RL 30.80 m	RL 30.70 m			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.06	2.02			
Peak Converted Wet Density (t/m³)	2.08	2.07			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	2.0 wet			
Hilf Density Ratio (%)	99.0	97.5			

Comments



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Report No: HDR:W19DS02168

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

Accredited for compliance with ISO/IEC 17025
 - Testing

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 11/11/2019
 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-07582	S19DS-07583			
Field Sample ID	1	2			
Date Tested	3/10/2019	3/10/2019			
Location	354735	354702			
E	5782298	5782379			
N	RL 31.26 m	RL 30.56 m			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.04	2.01			
Peak Converted Wet Density (t/m³)	2.02	2.08			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.0 wet	3.0 wet			
Hilf Density Ratio (%)	101.0	97.0			

Comments



Dandenong South
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Report No: HDR:W19DS02181

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing



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Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 16/01/2020

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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-07613	S19DS-07614	S19DS-07615	S19DS-07616		
Field Sample ID	1	2	3	4		
Date Tested	4/10/2019	4/10/2019	4/10/2019	4/10/2019		
Location	354895	354891	354722	354726		
E	5782729	5782689	5782332	5782300		
N	RL 31.10 m	RL 31.17 m	RL 31.28 m	RL 31.15 m		
Soil Description	Clay	Clay	Clay	Clay		
Depth of Test (mm)	150	150	150	150		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Wet Density (t/m³)	2.07	2.07	2.05	2.08		
Peak Converted Wet Density (t/m³)	1.97	2.02	2.01	2.07		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	2.0 dry	0.5 dry	2.0 dry	0.5 dry		
Hilf Density Ratio (%)	105.0	102.5	101.5	100.5		

Comments



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Report No: HDR:W19DS02199

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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

Location: Clyde Nth
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: Imported
Material: General Fill

Sample ID	S19DS-07662	S19DS-07663			
Field Sample ID	1	2			
Date Tested	7/10/2019	7/10/2019			
Location	Summit	Summit			
	354684	354700			
	5782388	5782276			
	RL: 29.647	RL: 29.990			
Soil Description	CLAY	CLAY			
Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m ³)	2.00	2.03			
Peak Converted Wet Density (t/m ³)	1.96	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 dry	0.0			
Hilf Density Ratio (%)	102.0	99.0			

Comments



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Report No: HDR:W19DS02229

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.:
TRN:

CG Request No.:
Lot No.:

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Approved Signatory: M. Longfield
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 Date of Issue: 11/11/2019

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Sample Details

Location: Clyde Nth
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: Imported
Material: General Fill

Sample ID	S19DS-07778				
Field Sample ID	1				
Date Tested	10/10/2019				
Location	354765				
	5782241				
	RL: 31.17				
Soil Description	CLAY				
Depth of Test (mm)	200				
Depth of Layer (mm)	175				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	2.11				
Peak Converted Wet Density (t/m³)	2.03				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 dry				
Hilf Density Ratio (%)	104.0				

Comments



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Report No: HDR:W19DS02235

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9A Tavern Site
Project No.: 3807351.009T
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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

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Sample Details

Location: Clyde
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 98% Standard Compaction
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: Clay

Sample ID	S19DS-07786	S19DS-07787			
Field Sample ID	1	2			
Date Tested	10/10/2019	10/10/2019			
E:	354728	354702			
N:	5782791	5782762			
RL:	28.54	28.52			
Depth of Test (mm)	225	225			
Depth of Layer (mm)	250	250			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	11	0			
Field Wet Density (t/m³)	2.12	2.12			
Peak Converted Wet Density (t/m³)	2.14	2.08			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	0.5 wet			
Hilf Density Ratio (%)	99.0	102.0			

Comments



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Report No: HDR:W19DS02242

Issue No: 2

This report replaces all previous issues of report no 'HDR:W19DS02242'.

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9B
Project No.: 3807351.009B
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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

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Sample Details

Location: Clyde Nth
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: Imported
Material: General Fill

Sample ID	S19DS-07816	S19DS-07817	S19DS-07818		
Field Sample ID	1	2	3		
Date Tested	11/10/2019	11/10/2019	11/10/2019		
Location	354767	354745	354764		
	5782295	5782221	5782212		
	RL: 31.96	RL: 30.83	RL: 30.85		
Soil Description	CLAY	CLAY	CLAY		
Depth of Test (mm)	175	175	175		
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)	1.92	2.00	2.04		
Peak Converted Wet Density (t/m³)	1.97	2.09	2.08		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	0.5 dry	2.0 wet	0.5 wet		
Hilf Density Ratio (%)	97.0	95.5	98.0		

Comments



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Report No: HDR:W19DS02243

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9A Tavern Site
Project No.: 3807351.009T
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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

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Sample Details

Location: Clyde Nth
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: Imported
Material: General Fill

Sample ID	S19DS-07819				
Field Sample ID	1				
Date Tested	11/10/2019				
Location	354706				
	5782783				
	RL: 28.75				
Soil Description	CLAY				
Depth of Test (mm)	225				
Depth of Layer (mm)	250				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	2.20				
Peak Converted Wet Density (t/m³)	2.02				
Compactive Effort	Standard				
Moisture Variation (%)	3.0 dry				
Hilf Density Ratio (%)	108.5				

Comments



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Report No: HDR:W19DS02250

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9B
Project No.: 3807351.009B
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: 11/11/2019
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Sample Details

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

Sample ID	S19DS-07838	S19DS-07839	S19DS-07840	S19DS-07841		
Field Sample ID	1	2	3	4		
Date Tested	14/10/2019	14/10/2019	14/10/2019	14/10/2019		
Location	354741	354753	354777	354762		
	5782259	5782213	5782203	5782242		
	RL: 31.16	RL: 31.07	RL: 31.25	RL: 31.22		
Soil Description	CLAY	CLAY	CLAY	CLAY		
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Wet Density (t/m³)	2.03	2.04	2.02	2.01		
Peak Converted Wet Density (t/m³)	2.04	2.10	2.13	2.08		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.0	2.0 wet	0.0	0.0		
Hilf Density Ratio (%)	99.5	97.0	95.0	96.5		

Comments



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Report No: HDR:W19DS02261

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9B
Project No.: 3807351.009B
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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

Location: meridian estate stage 9B
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:
Material:

Sample ID	S19DS-07873	S19DS-07874			
Field Sample ID	1	2			
Date Tested	15/10/2019	15/10/2019			
E:	354772	354749			
N:	5782224	5782219			
	31.167	31.045			
Soil Description	clay (general fill)	clay (general fill)			
Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.12	2.08			
Peak Converted Wet Density (t/m³)	2.12	2.15			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.0			
Hilf Density Ratio (%)	100.0	96.5			

Comments



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Report No: HDR:W19DS02276

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9B
Project No.: 3807351.009B
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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

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Sample Details

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

Sample ID	S19DS-07942	S19DS-07943	S19DS-07944		
Field Sample ID	1	2	3		
Date Tested	16/10/2019	16/10/2019	16/10/2019		
Location	354739	354773	354775		
	5782254	5782208	5782302		
	RL: 31.44	RL: 31.52	RL 32.16		
Soil Description	CLAY	CLAY	CLAY		
Depth of Test (mm)	175	175	175		
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)	2.13	2.10	2.14		
Peak Converted Wet Density (t/m³)	2.14	2.13	2.14		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	0.0	0.0	0.0		
Hilf Density Ratio (%)	100.0	98.5	100.0		

Comments



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Report No: HDR:W19DS02292

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9B
Project No.: 3807351.009B
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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

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

Sample ID	S19DS-07996	S19DS-07997	S19DS-07998		
Field Sample ID	1	2	3		
Date Tested	18/10/2019	18/10/2019	18/10/2019		
Location	354751	354742	354763		
	5782252	5782208	5782203		
	RL: 31.52	RL: 31.67	RL: 31.73		
Soil Description	CLAY	CLAY	CLAY		
Depth of Test (mm)	175	175	175		
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)	2.08	2.05	1.88		
Peak Converted Wet Density (t/m³)	2.02	2.02	1.92		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	0.5 dry	2.0 dry	1.0 wet		
Hilf Density Ratio (%)	102.5	101.5	98.0		

Comments



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Report No: HDR:W19DS02315

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9B
Project No.: 3807351.009B
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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

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

Sample ID	S19DS-08059				
Field Sample ID	1				
Date Tested	22/10/2019				
Location	354774				
	5782190				
	RL: 31.85				
Soil Description	CLAY				
Depth of Test (mm)	200				
Depth of Layer (mm)	175				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	1.89				
Peak Converted Wet Density (t/m³)	1.92				
Compactive Effort	Standard				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	98.5				

Comments



Dandenong South
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Report No: HDR:W19DS02329

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9B
Project No.: 3807351.009B
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
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 Date of Issue: 11/11/2019
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Sample Details

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

Sample ID	S19DS-08110				
Field Sample ID	1				
Date Tested	23/10/2019				
Location	354784				
	5782265				
	RL: 32.20				
Soil Description	CLAY				
Depth of Test (mm)	175				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	2.09				
Peak Converted Wet Density (t/m³)	2.06				
Compactive Effort	Standard				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	101.0				

Comments



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Report No: HDR:W19DS02635

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
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Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing



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

Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 19/12/2019

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
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-09387				
Field Sample ID	1				
Date Tested	28/11/2019				
E:	354735				
N:	5782471				
RL:	29.650				
Depth of Test (mm)	150				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	1.98				
Peak Converted Wet Density (t/m³)	1.98				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 dry				
Hilf Density Ratio (%)	100.0				

Comments



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

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

Report No: HDR:W20DS00028

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing

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

Approved Signatory: M. Robinson
 (Team Leader)
 Date of Issue: 16/01/2020

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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	S20DS-00102				
Field Sample ID	1				
Date Tested	13/01/2020				
Location	354778				
E	5782402				
N	RL 32.657				
Soil Description	Clay				
Depth of Test (mm)	150				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	1.95				
Peak Converted Wet Density (t/m³)	1.91				
Compactive Effort	Standard				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	102.0				

Comments



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

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

Report No: HDR:W20DS00081

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 9
Project No.: 3807351.009
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. Robinson
 (Team Leader)
 Date of Issue: 24/01/2020

12712
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

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

Sample ID	S20DS-00309	S20DS-00310	S20DS-00311	S20DS-00312	S20DS-00313	S20DS-00314
Field Sample ID	1	2	3	4	5	6
Date Tested	22/01/2020	22/01/2020	22/01/2020	22/01/2020	22/01/2020	22/01/2020
Lot	9049	9050	9051/9052	9053/9054	9055/9056	9057/9058
E	354884	354873.1	354855.3	354834.8	354816.1	354771.5
N	5782521	5782517	5782516	5782506	5782498	5782440
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	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	8	0	0	5	0
Field Wet Density (t/m³)	2.10	2.12	2.18	2.21	2.22	2.11
Peak Converted Wet Density (t/m³)	2.05	2.19	2.03	1.99	2.03	1.97
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	1.0 dry	0.0	4.0 dry	3.0 dry	2.5 dry	2.5 dry
Hilf Density Ratio (%)	102.5	96.5	107.5	111.0	109.5	107.0

Comments

Appendix D: Controlled fill certificates



CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9040 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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, namely June 2017 and was completed in January 2020. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9041 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9042 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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, namely June 2017 and was completed in January 2020. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9043 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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, namely June 2017 and was completed in January 2020. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9044 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

Handwritten signature of Robert Barden in black ink.

Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9045 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9046 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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, namely June 2017 and was completed in January 2020. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

Handwritten signature of Robert Barden in black ink.

Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9047 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9048 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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www.chadwickgeotechnics.com.au



CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9049 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely June 2017 and was completed in January 2020. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9050 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9051 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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, namely June 2017 and was completed in January 2020. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

Robert Barden
Geotechnical Engineer



Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9052 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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www.chadwickgeotechnics.com.au



CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9053 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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, namely June 2017 and was completed in January 2020. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

Handwritten signature of Robert Barden in black ink.

Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9054 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9055 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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.

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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: 9056 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9057 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 2020
PO Box 4136
DANDENONG SOUTH VIC 3164

SUMMARY

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9058 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9059 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9060 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9061 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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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LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9062 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9065 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9066 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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www.chadwickgeotechnics.com.au

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9067 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9068 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9069 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9070 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 2020
PO Box 4136
DANDENONG SOUTH VIC 3164

SUMMARY

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9072 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9073 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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www.chadwickgeotechnics.com.au

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9074 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9075 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9076 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

Handwritten signature of Robert Barden in black ink.

Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9077 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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: 9078 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9079 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9080 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 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

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 9081 **Chadwick REF:** 3807351.009B.v1
Meridian Estate Stage 9B

CLIENT : Brown Property Group Pty Ltd **DATE:** January 2020
PO Box 4136
DANDENONG SOUTH VIC 3164

SUMMARY

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: Reserve area, No 1
Meridian Estate Stage 9B
Chadwick REF: 3807351.009B.v1

CLIENT : Brown Property Group Pty Ltd
PO Box 4136
DANDENONG SOUTH VIC 3164
DATE: January 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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