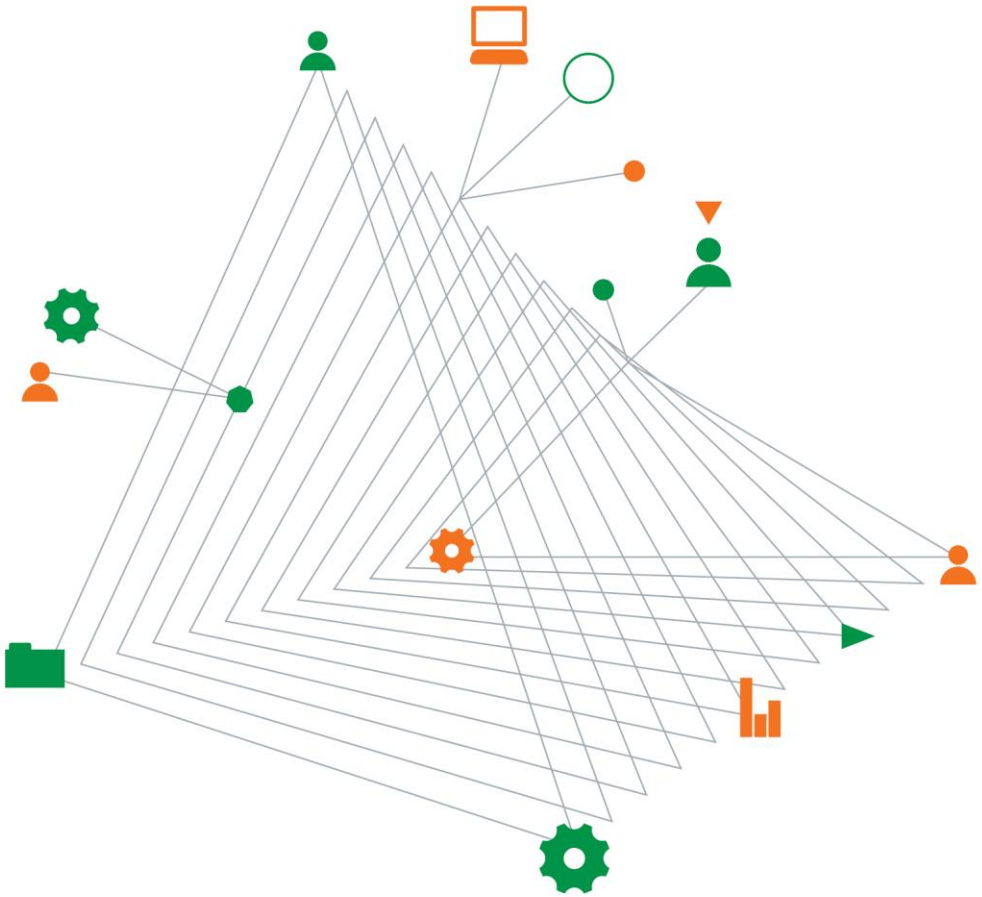
Peet No. 1895 Pty Ltd

Level 1 Inspection and Testing, Stage 4 – Civil works 7 & 8, Little Green Residential Precinct 1

GEOTABTF09878AA-AI

24 March 2017



Experience comes to life when it is powered by expertise

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Level 1 Inspection and Testing, Stage 4 – Civil works 7 & 8, Little Green Residential Precinct 1

Prepared for
Peet No. 1895 Pty Ltd

Prepared by

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24 March 2017

Document authorisation

Our ref: GEOTABTF09878AA-AI

For and on behalf of Coffey

Trevor Smith
Principal Engineering Geologist

Quality information

Revision history

Revision	Description	Date	Author	Reviewer	Signatory
0	Level 1 Report	24/03/17	Shaun Price	Trevor Smith	Trevor Smith

Distribution

Report Status	No. of copies	Format	Distributed to	Date
Report v.1	1	PDF	Mark Zammataro	27/03/2017
Report v.1	1	PDF	Coffey Library	27/03/2017

Table of contents

Figures

Appendices

1. Introduction

This report presents the results of the Level 1 Inspection and Testing for fill placement within Stage 4 - Civil works 7 & 8 and retaining wall of Little Green Residential Estate, Tarneit, undertaken by Coffey Services Australia Pty Ltd (Coffey).

The works were commissioned by Mark Zammataro of Spiire Australia Pty Ltd.

The Project was commenced on behalf of Amex Corporation Pty Ltd. On 1 March 2015 ownership transferred to Peet No 1895 Pty Ltd, the change in ownership had no significant influence on level 1 activities.

2. Project Summary

Level 1 Inspection and Testing, as defined in AS3798-2007 “Guidelines on Earthworks for Commercial and Residential Development,” provides for full time inspection of the construction of controlled fill and field and laboratory testing in accordance with AS1289 “Methods of Testing Soils for Engineering Purposes”.

The Level 1 Inspection was undertaken by geotechnical professionals from Coffey during the following dates listed in table 1. Testing was undertaken during this period in accordance with the required frequency.

Table 1: Dates of Level 1 supervision

Month	Dates
November 2015	24, 25 ,26 and 30
December 2015	1, 2, 3, 4, 8, 9, 10, 11, 14, 15, 16, 17, 18, 21 and 22
January 2015	4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 19, 20, 21, 22 and 27
February 2015	2, 3, 4, 5, 9, 10, 11, 12,15, 16, 17, 18, 19, 22, 23, 24, 25, 26 and 29
March 2016	1, 2, 3, 4, 7, 8, 9, 15, 16, 17, 21, 22 and 23
July 2016	20, 21, 26, 27 and 28
August 2016	16, 17, 18, 23, 24, 25, 26, 29, 30 and 31
September 2016	1, 6, 8, 20, 22, 23, 24 and 26
October 2016	12, 13, 14, 18 and 21

The main contractor for the project was BMD Constructions who have conducted the bulk earthworks at the site. Coffey and Terra Firma have undertaken the compaction control testing in their NATA accredited laboratories, as part of the Level 1 Inspection and Testing process.

This report is applicable to fill placed by BMD within Stage 4 - civil works 7 & 8 and the retaining wall of the Little Green Estate development in the areas shown in Figure 1. Figure 1 also identifies the filling areas of the engineered fill platforms.

This report does not include fill other than where mentioned in this report or any other fill that may be placed during this period or subsequent periods at or surrounding the subject site. Excluded works comprise trench backfill, foot paths, landscaping fill, placement of topsoil, roadway testing, sewer and stormwater channels backfills.

3. Specification/work instructions

The specification for the project was prepared by Spiire Australia Pty Ltd for Little Green Residential Estate Precinct 1 under reference number "301119 Little Green Bulk Earthworks – Rev B" dated 20 February 2015. A maximum compacted layer thickness of 200 mm was to be followed for the project. However from 2 June, after discussions between Coffey, BMD and Spiire on 22 May 2015, a maximum compacted layer thickness of 300 mm was allowed. A testing depth of 275mm was adopted to provide results for the full layer thickness. The extract of the specified requirements is provided in Appendix B and a short summary is provided below:

- All filling shall be to a level 150 mm below the finished surface level shown and compacted as per AS3798-1998. Filling material is to be in accordance with the specification and to the satisfaction of council and the superintendent.
- Filling material is to be in accordance with the specification of AS3798-2007 and to the satisfaction of council and the superintendent.
- All filling on lots and within road reserves greater than 200mm is to be undertaken using level 1 supervision and completed in accordance with AS 3798-2007.
- Item 13 of the Specifications under reference "301119 Little Green Bulk Earthworks – Rev B" dated 20 February 2015 notes that fill placed on allotment areas is to achieve the following specifications:
    - Maximum dry density of 98%;
    - Minimum California Bearing Ratio (CBR) of 5%; and
    - Bearing pressure of 100kPa at less than 1.0m depth from finished surface level or bulk filling surface level and bearing pressure of 150kPa at greater than 1.0m depth from finished surface level or bulk surface level.

  Email correspondence from Mark Zammataro of Spiire sent to Coffey and BMD 25 May 2015 indicated that the filling works were to achieve the following specifications:
    - Layers not exceeding 200mm compacted thickness;
    - Density ratio to be minimum 95% Standard;
    - No CBR value requirement;
    - Moisture variation to be within 3% of the optimum moisture condition (OMC); and
    - Allowed rock size to be up to 130mm diameter, i.e. 2/3 of a layer.

  Following further discussions between Mark Zammataro of Spiire and Sotir Stojcevski of Coffey, the specifications were altered to meet the following requirements:
    - A compacted layer thickness not exceeding 300mm;

- Maximum dry density of 95%; and
- Moisture variation to be within ±3% OMC.

4. Fill Material

Fill used for the construction of Stage 4 - civil works 7 & 8 and retaining wall comprised of imported clay from various sites around the greater Melbourne area. A spreadsheet indicating the source name and estimated volumes are attached in Appendix C. It is noted that Coffey's summary of imported fill material was derived from daily discussions held by the Level 1 GITA representative and the site foreman.

Environmental assessment of the imported materials is understood to have been conducted by BMD. A clean fill summary sheet is also attached in Appendix C as provided by BMD. The clean fill reports for the source locations are held by BMD.

Organic or deleterious matter and oversize materials that were observed within the imported fill were removed prior to placing the engineered fill platforms.

Coffey consider that the imported fill material was suitable for the construction of the engineered fill platforms.

5. Earthworks

The earthworks for this project included stripping of topsoil, proof rolling the subgrade and placement and compaction of fill to construct engineered fill platforms.

5.1. Subgrade assessment – Stage 4 – Civil Stage 7 & 8

The subgrade assessment was undertaken in Stage 4 - civil works 7 & 8 during the early stage of the works. The assessment was undertaken on 24-27 and 30 November 2015. Subgrade assessment was conducted following the removal of topsoil and before any fill was placed. In all areas the subgrade comprised natural clay of very stiff to hard consistency. No soft spots were observed during the subgrade proof rolling. Where organics and roots were observed, they were removed. And backfilled with engineered fill prior to bulk earthworks commencing. A surveyor engaged by BMD undertook a survey of the subgrade levels following Coffey's assessment.

5.2. Subgrade assessment – Stage 4 - Civil Stage 7 & 8- Retaining Wall

The subgrade assessment was undertaken in Stage 4 - civil works 7 & 8 - RE Wall at the end of the stage of the works. The assessment was undertaken on 21 February 2017. Subgrade assessment was conducted following the removal of topsoil and before any fill was placed. In all areas the subgrade comprised natural clay of very stiff to hard consistency. No soft spots were observed during the subgrade proof rolling. A surveyor engaged by BMD undertook a survey of the subgrade levels following Coffey's assessment.

5.3. Fill construction

Fill material was placed generally in loose layers varying in thickness from 200 mm to 350 mm. Compacted layers were approximately 150 mm to 300 mm thick.

All sourced fill was trucked in and spread with a bulldozer. A water cart and a pad foot roller were present onsite during works for moisture conditioning and compacting.

Coffey's Level 1 Inspector was on site on a full time basis during the placement, compaction and testing of the fill on the dates noted in Section 1 of this report. Coffey understands that BMD did not place any fill within stage 4 – civil stage 7 & 8 during this period when Coffey was absent from the site.

Where significant time gaps occurred in fill placement, the surface was scarified and watered prior to the re-commencement of fill placement.

6. Survey data and fill thickness

BMD's appointed surveyor Jac Surveyors Pty Ltd (SMS) conducted a survey of Stage 4 - civil works 7 & 8 after stripping the topsoil and after the subgrade was approved for placement of fill. The stripped surface levels and finished surface levels are provided in Appendix B of this report under reference Stage 4 Strip Surface and Stage 4 Finish Surface.

The survey shows that between 0.6m and 2.5m of fill was placed across the lots in Stage 4 - civil works 7 & 8 and the retaining wall. Coffey observed the fill being placed between 1 and 10 layers in these areas across Stage 4 - civil works 7 & 8 and the retaining wall which resulted in maximum layer thickness of 300mm. The produced layer thickness for Stage 4 - civil works 7 & 8 and the retaining wall are in compliance with the specifications of AS 3798-2007 and within the specifications outlined in section 3 of this report.

7. Testing and results

7.1 Density Testing

Field density testing was undertaken progressively on the compacted fill. Testing was undertaken under the following frequencies:

- 1 test per material type per layer per 2500 m^2 or 1 test per 500 m^3 or 3 tests per lot – whichever requires most tests in accordance with Type 1 Earthworks (large scale operations) as defined in Table 8.1 of the AS 3798-2007.
- 1 test per layer or 1 test per 200 m^3 distributed reasonably evenly throughout the fill depth or 1 test per residential lot – whichever requires the most tests in accordance with Type 2 Earthworks (small scale operations) as defined in Table 8.1 of the AS 3798-2007.

The field density testing was conducted by Coffey's personnel on site. All laboratory testing was performed by Coffey and Terra Firma's NATA accredited laboratory. A Hilf rapid method compaction test (AS1289.5.7.1) was performed for each field density test.

A total of 215 field density tests were performed on stage 4 – civil stages 7 & 8 during the earthworks as presented in Figure 2. Of the 215 tests, 29 did not meet the specified criteria and these areas were

subsequently re-worked and re-tested. Test 198 and 204 occurred in an area beneath a proposed road, the area was reworked and supervised by Coffey personnel on site following the failed tests, however both samples were not re-tested as this area will be tested as part of the road construction. BMD will have an external testing company come to site at a later date to test the road.

Once retested, all test results met the specified dry density ratio criteria of 95% Standard and moisture variation of ±3% of the SOMC.

A total of 19 field density tests were performed on the retaining wall of stage 4 – civil stages 7 & 8 during the earthworks as presented in Figure 2. All of the 19 tests passed the specified criteria.

A summary of the test results obtained from the field density testing within the Stage 4 - Civil works 7 & 8 and the retaining wall are provided in a table presented as Figure 2. The laboratory test reports of the field density tests are presented in Appendix A.

8. Statement of compliance

Coffey personnel have provided Level 1 Inspection and testing services during the construction of the engineered fill area within Stage 4 - Civil works 7 & 8 and the retaining wall as shown in Figure 1. A geotechnical professional from Coffey (Level 1 Inspector) was on site on a full time basis during subgrade preparation and fill placement, and observed the construction techniques adopted.

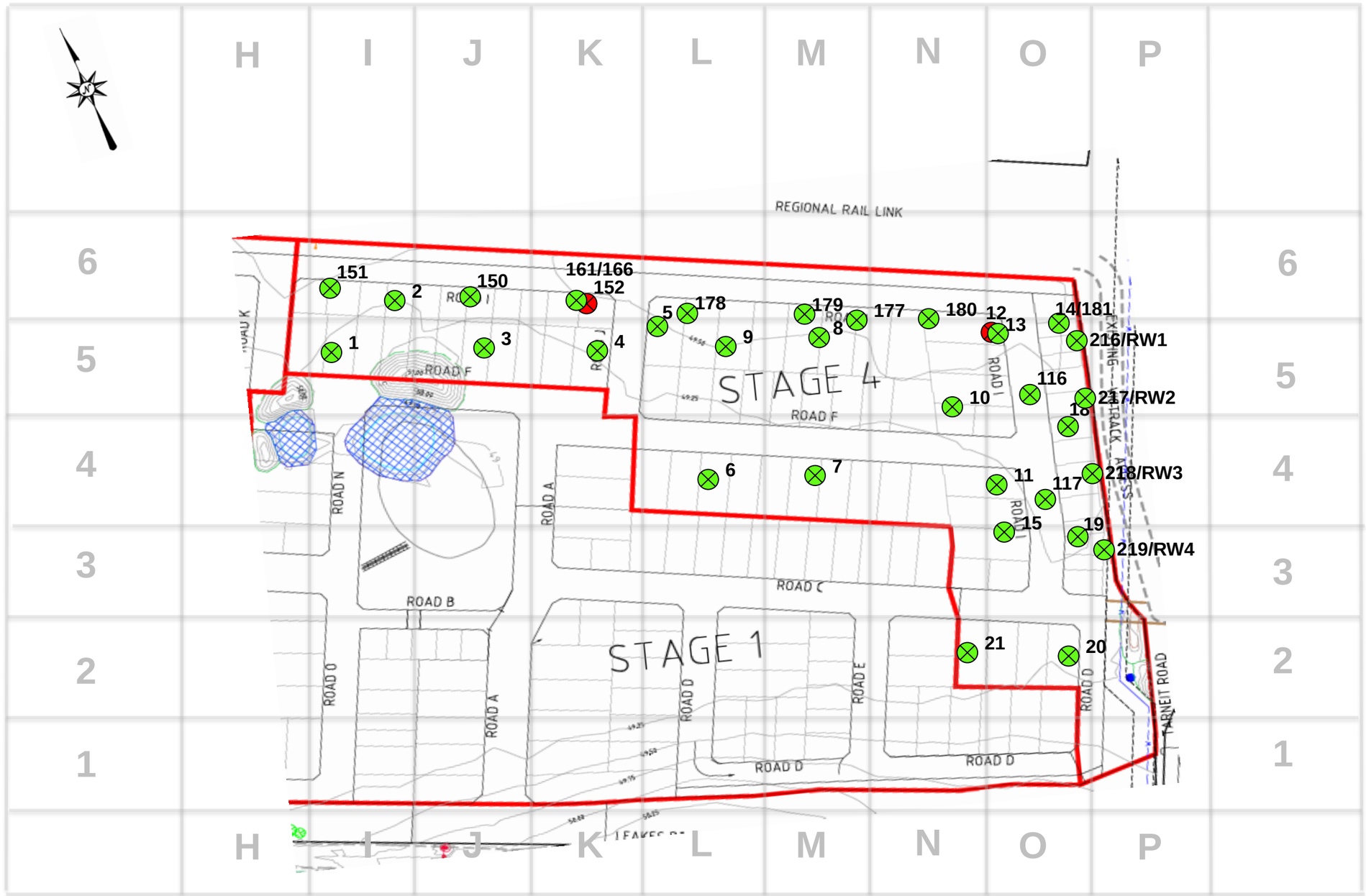
Based on observations made by Coffey's Level 1 Inspector and the results of field and laboratory tests, Coffey consider that the engineered fill area within Stage 4 - Civil works 7 & 8 and the retaining wall constructed by BMD to the levels indicated in Section 5, as far as we have been able to determine, has been placed in general accordance with the intent of the specification.

Figures

Legend

Approximate location of field density test - Layer 1 (PASSED)

Approximate location of field density test - Layer 1 (FAILED)



Source: Extracted from 301119 LITTLE GREEN BULK EARTHWORKS - REV B

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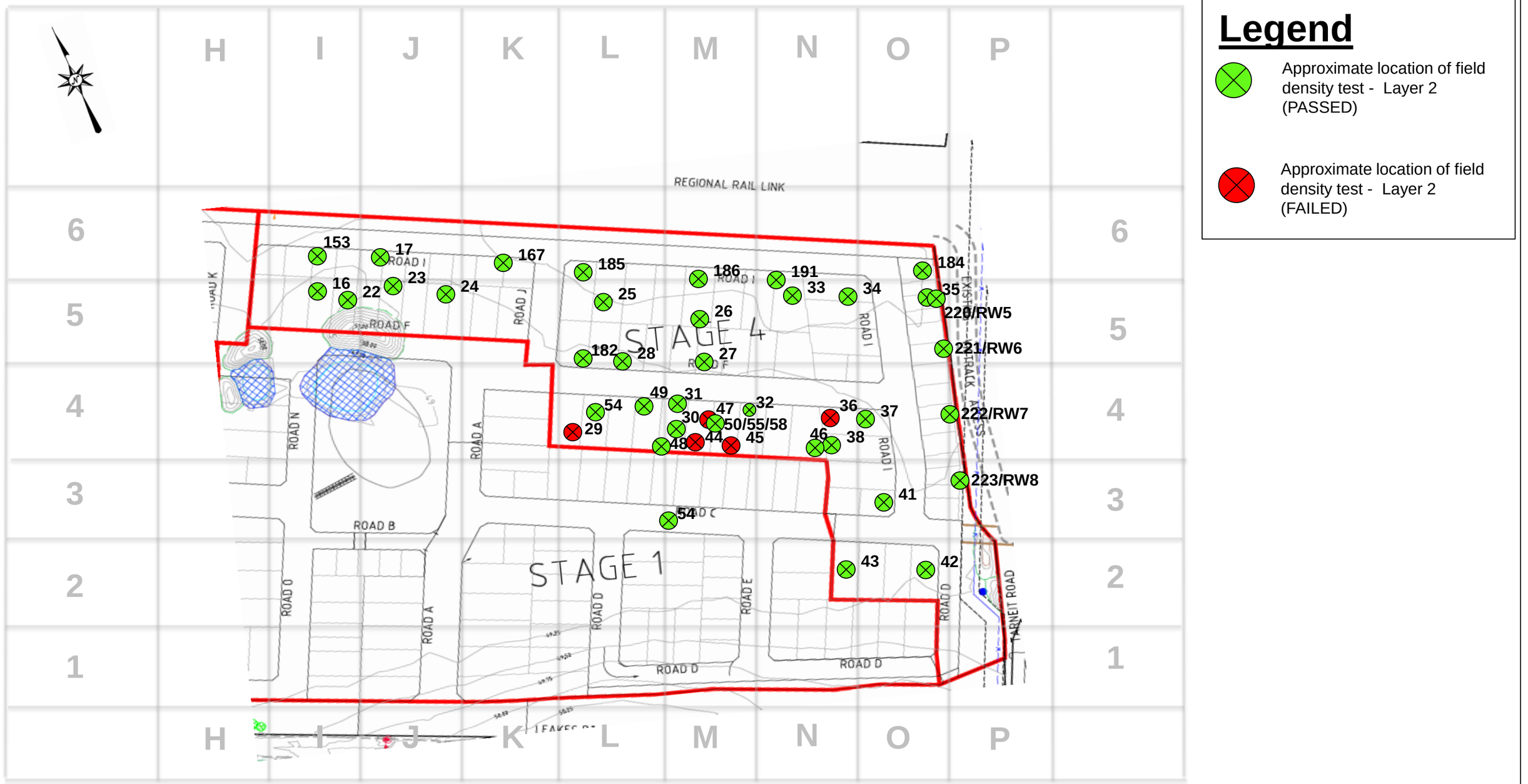
approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 4
date	18/11/2016		title:	Test locations for layer 1
scale	NTS		project no: GEOTABTF09878AA	figure no: Figure 1 - A
original size	A3			



Legend

Approximate location of field density test - Layer 2 (PASSED)

Approximate location of field density test - Layer 2 (FAILED)

Source: Extracted from 301119 LITTLE GREEN BULK EARTHWORKS - REV B

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approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 4
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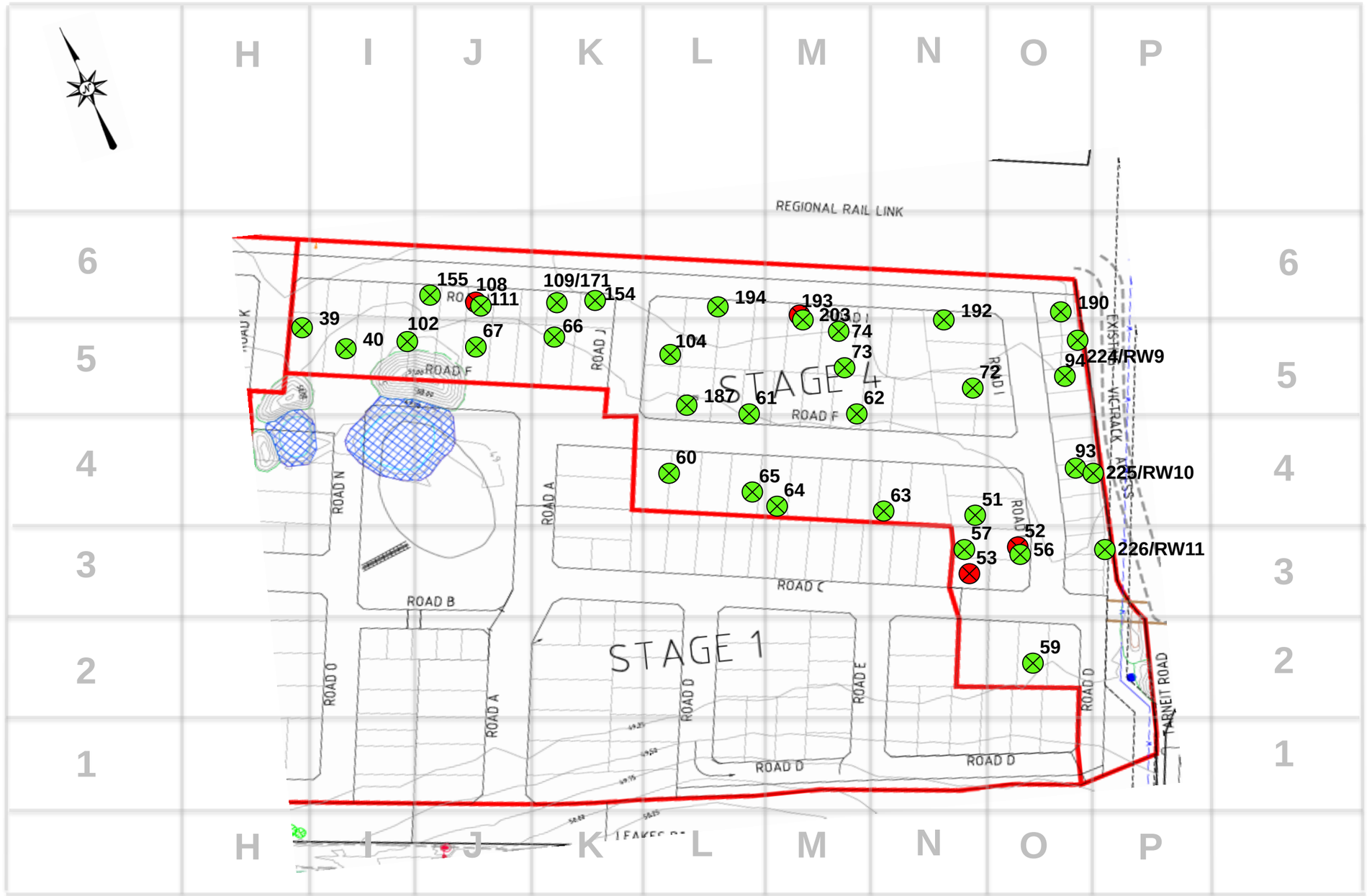
scale	NTS		project no: GEOTABTF09878AA	figure no: Figure 1 - B
original size	A3			

Legend

Approximate location of field density test - Layer 3 (PASSED)

Approximate location of field density test - Layer 3 (FAILED)



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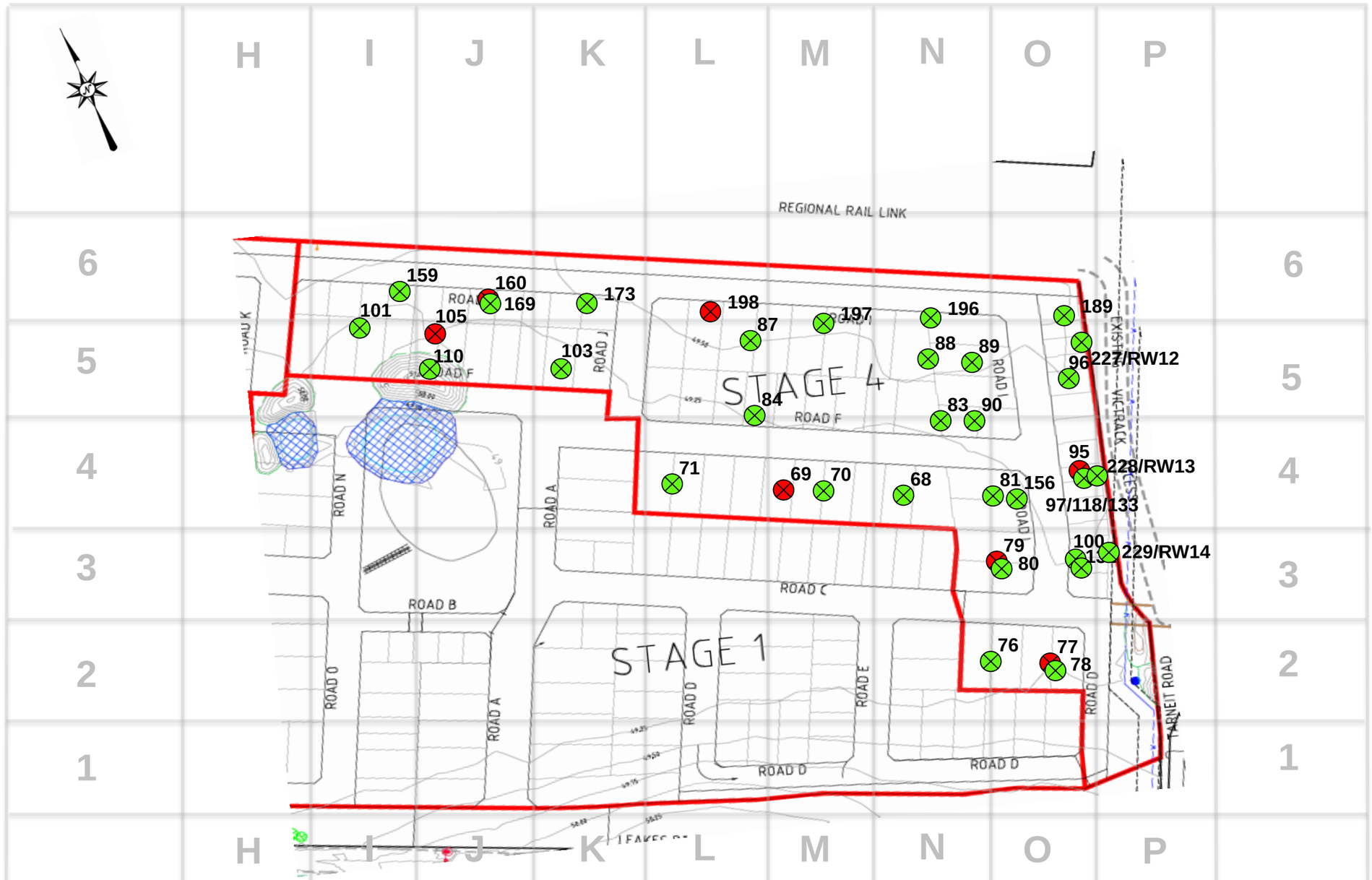
Legend

- Approximate location of field density test - Layer 4 (PASSED)
- Approximate location of field density test - Layer 4 (FAILED)



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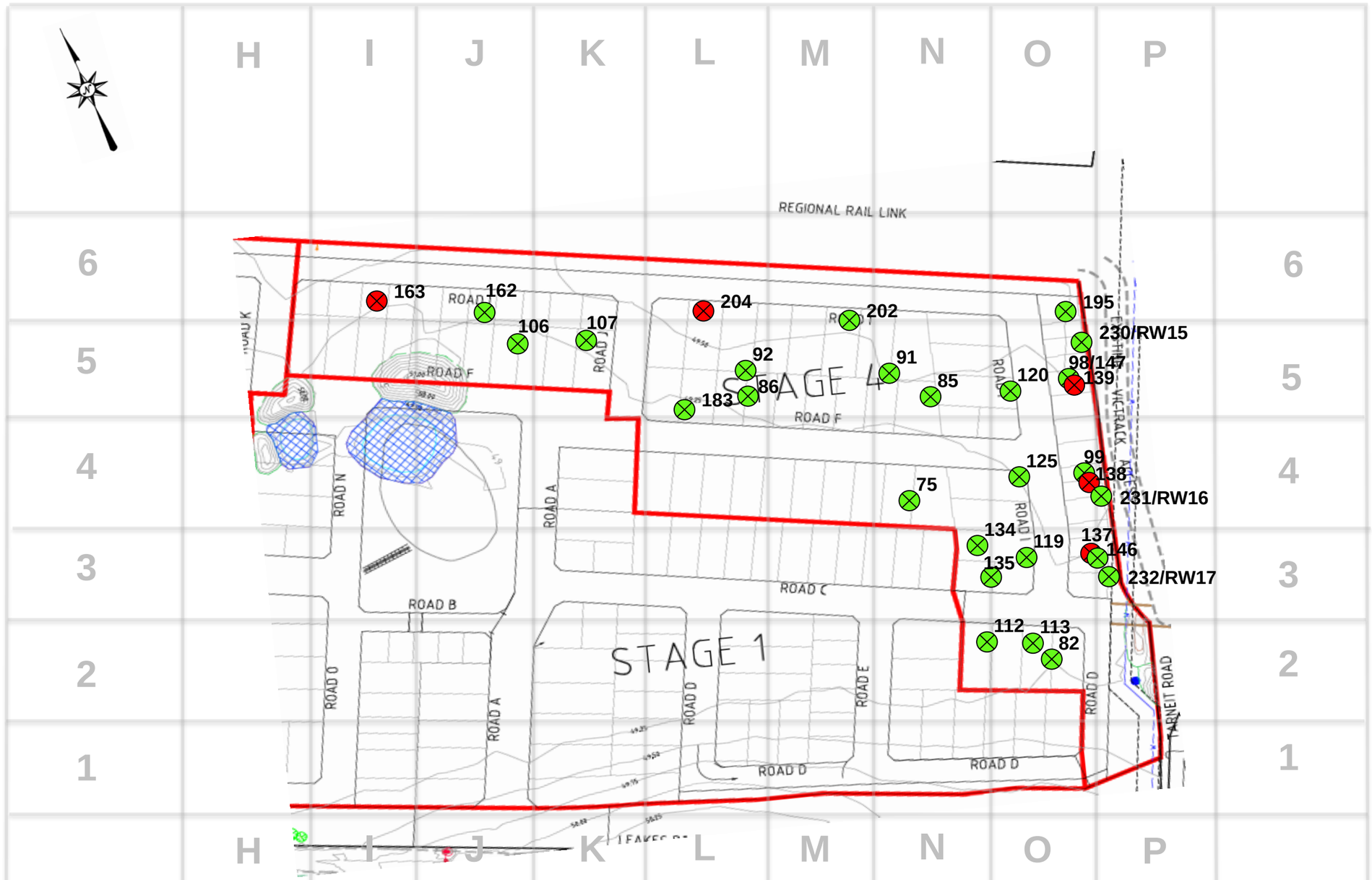

Legend

Approximate location of field density test - Layer 5 (PASSED)

Approximate location of field density test - Layer 5 (FAILED)

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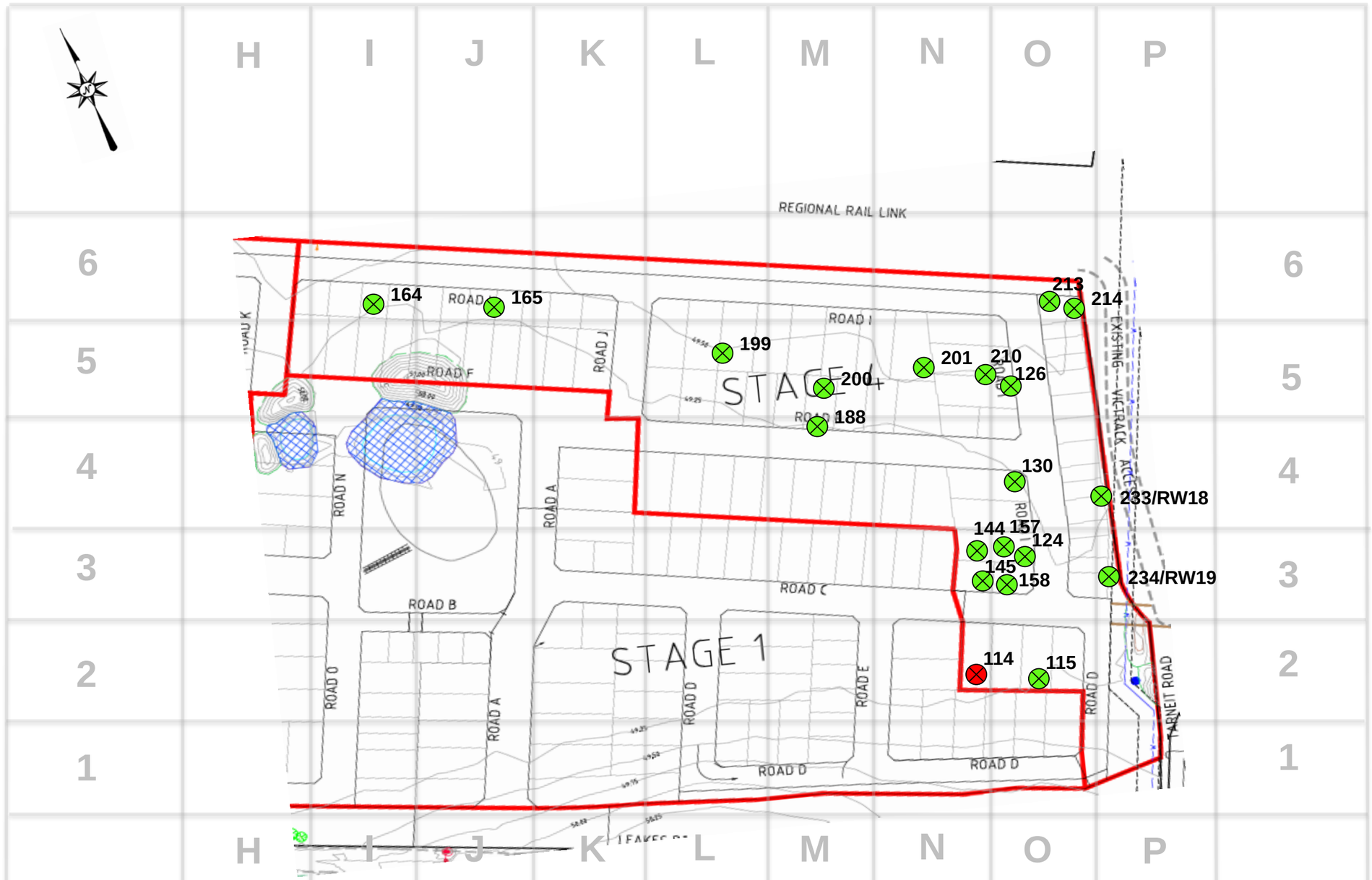
approved	S.P		project:	LITTLE GREEN ESTATE- STAGE 4
date	18/11/2016		title:	Test locations for layer 5
scale	NTS		project no: GEOTABTF09878AA	figure no: Figure 1 - E
original size	A3			

Legend

- Approximate location of field density test - Layer 6 (PASSED)
- Approximate location of field density test - Layer 6 (FAILED)



Source: Extracted from 301119 LITTLE GREEN BULK EARTHWORKS - REV B

drawn	W.H
approved	S.P
date	18/11/2016
scale	NTS
original size	A3

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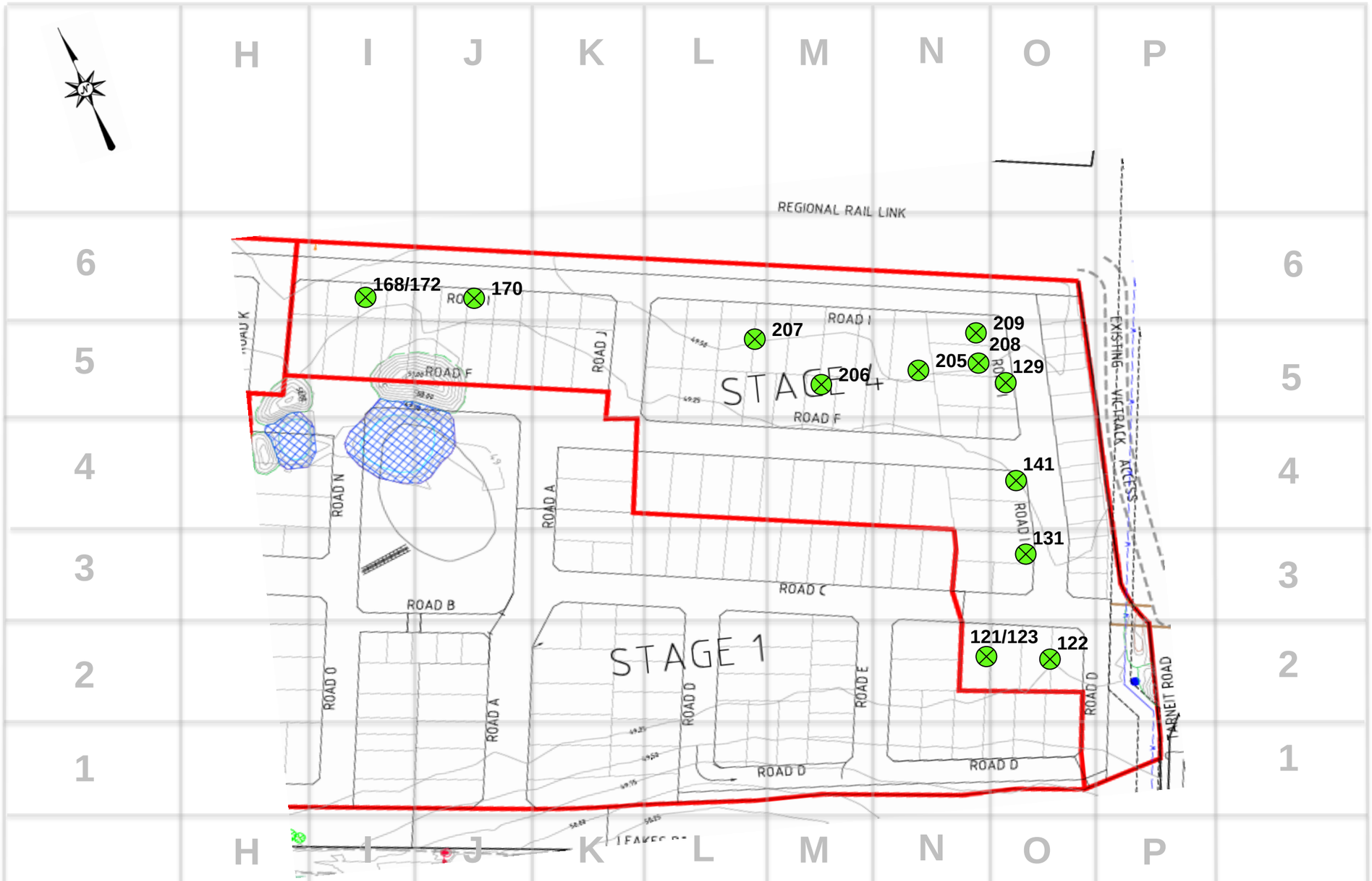
A TETRA TECH COMPANY

client:	Peet No. 1895 Pty Ltd
project:	LITTLE GREEN ESTATE- STAGE 4
title:	Test locations for layer 6
project no:	GEOTABTF09878AA
figure no:	Figure 1 - F



Legend

Approximate location of field density test - Layer 7 (PASSED)

Approximate location of field density test - Layer 7 (FAILED)

Source: Extracted from 301119 LITTLE GREEN BULK EARTHWORKS - REV B

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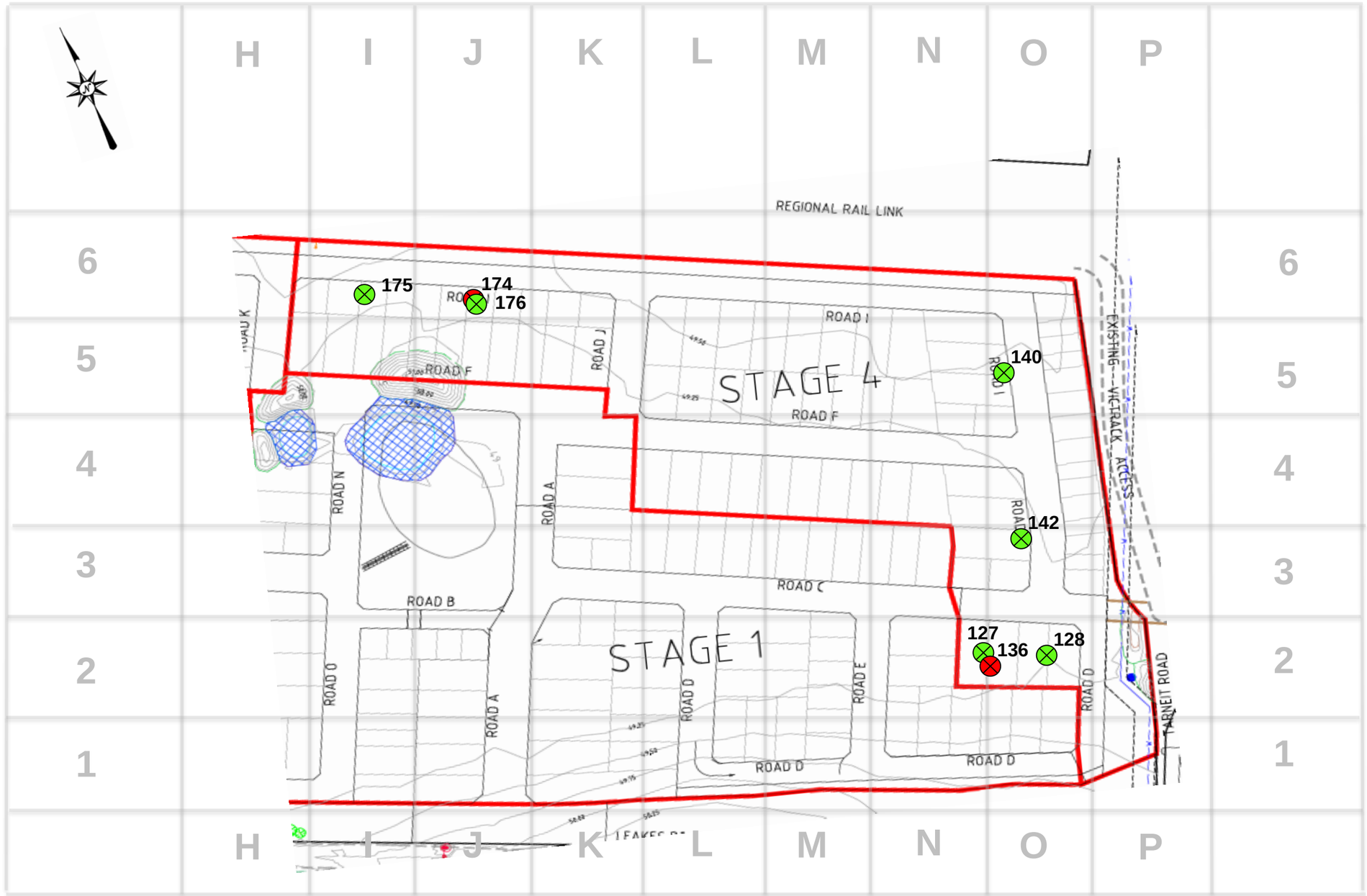
original size	A3			



Legend

- Approximate location of field density test - Layer 8 (PASSED)
- Approximate location of field density test - Layer 8 (FAILED)

Source: Extracted from 301119 LITTLE GREEN BULK EARTHWORKS - REV B

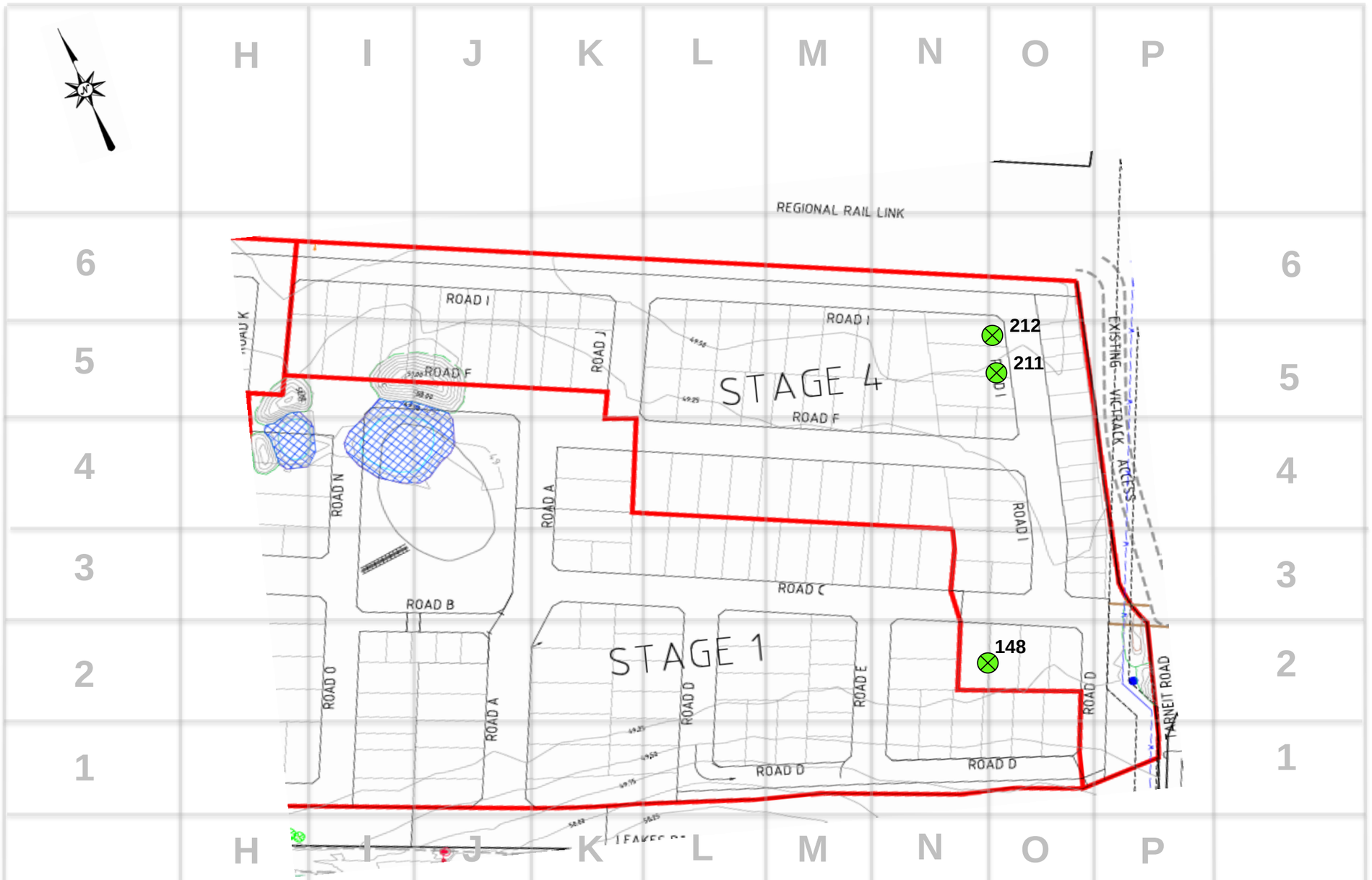
drawn	W.H
approved	S.P
date	18/11/2016
scale	NTS
original size	A3

coffey
A TETRA TECH COMPANY

client:	Peet No. 1895 Pty Ltd
project:	LITTLE GREEN ESTATE- STAGE 4
title:	Test locations for layer 8
project no:	GEOTABTF09878AA
figure no:	Figure 1 - H

Legend

- Approximate location of field density test - Layer 9 (PASSED)
- Approximate location of field density test - Layer 9 (FAILED)



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date	18/11/2016		title:	Test locations for layer 9
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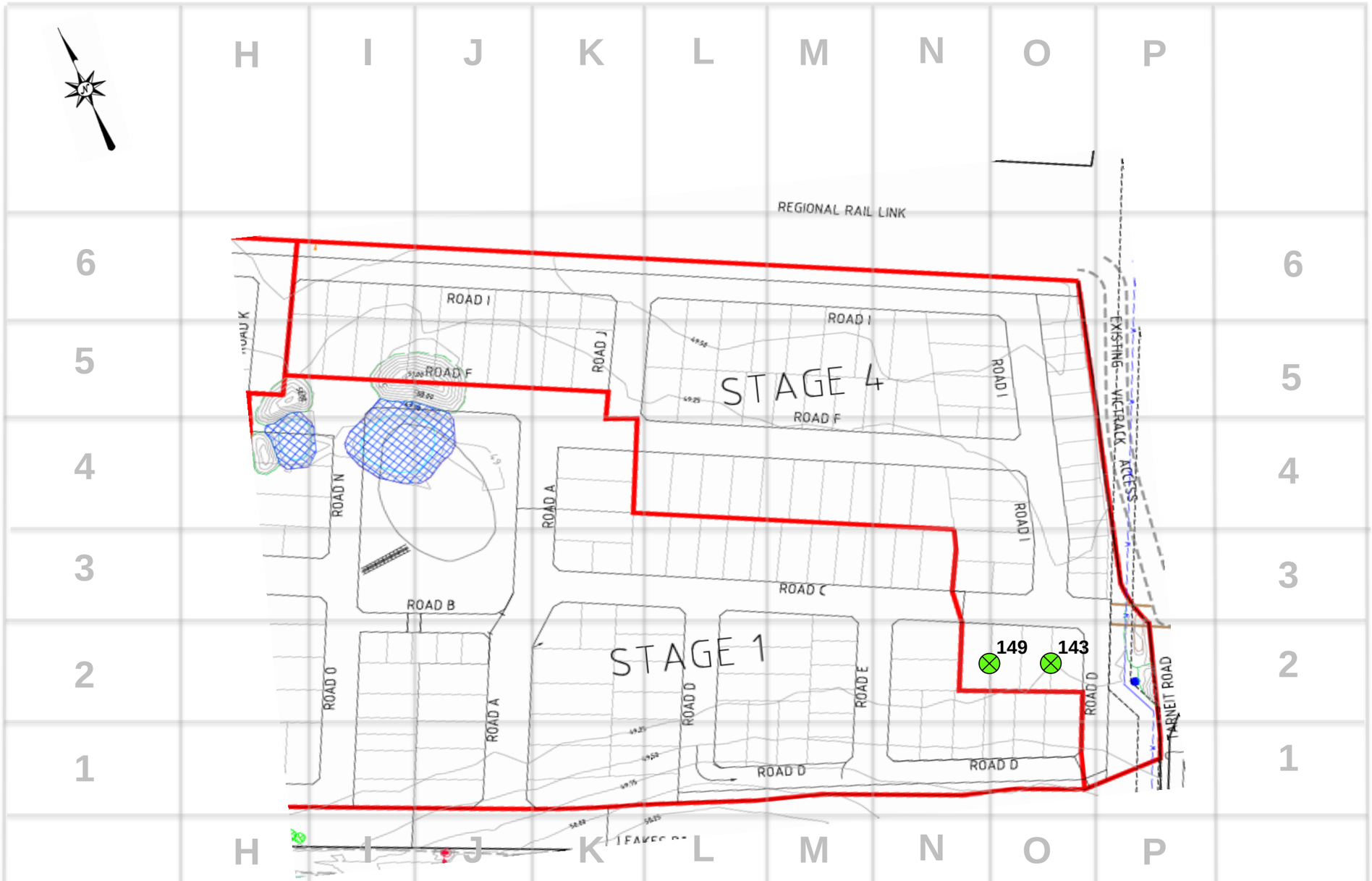
original size	A3			

Legend

Approximate location of field density test - Layer 10 (PASSED)

Approximate location of field density test - Layer 10 (FAILED)



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date	18/11/2016		title:	Test locations for layer 10
scale	NTS		project no: GEOTABTF09878AA	figure no: Figure 1 - J
original size	A3			

Project:		Little Green Estate			Coffey Job #:		GEOTABTF09878AA				Specification:	95% Hilf Density Ratio
Client:		SPIIRE/AMEX			Period:		July 2015- Current					±3% of OMC

Test	Retest of Test	Day / Date	Area Grid	Layer	Field Wet Density	Field Moisture Content	Hilf Density Ratio	Moisture Ratio	Moisture Variation of OMC	Pass / Fail	Retest	Comment (source)
#	#			#	t/m3	%	%	%	%		#	
1		Wednesday, 2 December 2015	I5 (Mid)	1	1.99	22.0	**101.5**	90.5	**2.0 dry**	Pass		Ravenhall Prison
2		Wednesday, 2 December 2015	I6 (SE)	1	1.98	20.0	**102.5**	88.5	**2.5 dry**	Pass		Ravenhall Prison
3		Thursday, 3 December 2015	J5	1	2.05	18.5	**103.5**	99.0	**0.0 OMC**	Pass		South Yarra & St Albans
4		Friday, 4 December 2015	K5 (N)	1	2.12	14.0	**100.5**	96.0	**0.5 dry**	Pass		South Yarra & Ravenhall Prison
5		Friday, 4 December 2015	L5 (NW)	1	1.91	14.0	**97.5**	87.0	**2.0 dry**	Pass		South Yarra & Ravenhall Prison
6		Thursday, 10 December 2015	L4	1	1.90	20.0	**95.5**	89.5	**2.0 dry**	Pass		Werribee Plaza, Coburg & St Albans
7		Thursday, 10 December 2015	M4	1	2.01	18.5	**97.0**	100.0	**0.0 OMC**	Pass		Werribee Plaza, Coburg & St Albans
8		Thursday, 10 December 2015	M5 (N)	1	2.11	18.5	**107.0**	90.0	**2.0 dry**	Pass		Werribee Plaza, Coburg & St Albans
9		Thursday, 10 December 2015	L5	1	2.06	14.5	**99.0**	85.5	**2.5 dry**	Pass		Werribee Plaza, Coburg & St Albans
10		Thursday, 17 December 2015	N5 (S)	1	2.06	14.5	**99.0**	85.5	**2.5 dry**	Pass		Ravenhall Prison & St Albans
11		Thursday, 17 December 2015	O4 (SW)	1	1.98	20.0	**98.5**	89.0	**2.5 dry**	Pass		South Melbourne & South Yarra
12		Thursday, 17 December 2015	O5 (NW)	1	1.89	8.5	**89.0**	77.5	**2.5 dry**	Fail	13	South Melbourne & South Yarra
13	12	Friday, 18 December 2015	O5 (NW)	1	2.08	13.5	**99.0**	87.5	**2.0 dry**	Pass		South Melbourne & South Yarra
14		Friday, 18 December 2015	O5 (NE)	1	1.93	18.5	**95.0**	97.5	**0.5 dry**	Pass		South Melbourne & South Yarra
15		Friday, 18 December 2015	O3 (NW)	1	2.04	13.5	**97.5**	86.5	**2.0 dry**	Pass		South Melbourne & South Yarra
16		Tuesday, 22 December 2015	I5 (N)	2	1.90	20.0	**95.0**	98.0	**0.5 dry**	Pass		
17		Tuesday, 22 December 2015	J6 (SW)	2	1.96	17.5	**99.5**	87.5	**2.5 dry**	Pass		
18		Tuesday, 22 December 2015	O4 (NE)	1	2.09	10.5	**96.0**	87.5	**1.5 dry**	Pass		
19		Tuesday, 22 December 2015	O3 (NE)	1	1.98	22.0	**97.0**	100.5	**0.0 OMC**	Pass		
20		Friday, 8 January 2016	O2 (E)	1	2.20	13.0	**104.0**	95.0	**0.5 dry**	Pass		
21		Friday, 8 January 2016	N2 (E)	1	1.96	15.5	**95.0**	97.5	**0.5 dry**	Pass		
22		Monday, 11 January 2016	I5	2	1.99	16.0	**98.5**	102.5	**0.5 wet**	Pass		South Melbourne
23		Monday, 11 January 2016	J5	2	2.09	19.5	**101.0**	100.5	**0.0 OMC**	Pass		South Melbourne
24		Wednesday, 13 January 2016	J5 (E)	2	1.87	28.5	**97.5**	106.5	**1.5 wet**	Pass		South Melbourne
25		Thursday, 14 January 2016	L5	2	2.12	14.5	**103.0**	86.0	**2.0 dry**	Pass		
26		Thursday, 14 January 2016	M5	2	2.10	14.5	**101.0**	85.0	**2.5 dry**	Pass		
27		Friday, 15 January 2016	M5 (S)	2	1.98	21.0	**102.5**	87.0	**3.0 dry**	Pass		Ravenhall Prison
28		Friday, 15 January 2016	L5 (S)	2	2.04	16.0	**97.0**	98.0	**0.5 dry**	Pass		Ravenhall Prison
29		Monday, 18 January 2016	L4 (W)	2	1.97	20.0	**104.5**	80.0	**4.5 dry**	Fail	54	Ravenhall Prison
30		Monday, 18 January 2016	M4 (W)	2	1.99	23.0	**105.5**	90.0	**2.5 dry**	Pass		Ravenhall Prison
31		Tuesday, 19 January 2016	M4 (W)	2	2.03	16.0	**106.5**	85.0	**3.0 dry**	Pass		Ravenhall Prison
32		Tuesday, 19 January 2016	M4 (E)	2	2.01	16.5	**102.5**	84.0	**3.0 dry**	Pass		Ravenhall Prison
33		Wednesday, 20 January 2016	N5	2	1.87	26.5	**97.0**	100.5	**0.0 OMC**	Pass		South Yarra and South Melbourne
34		Wednesday, 20 January 2016	N5 (E)	2	2.11	17.0	**101.0**	90.0	**2.0 dry**	Pass		South Yarra and South Melbourne
35		Wednesday, 20 January 2016	O5	2	2.07	8.0	**97.5**	73.5	**3.0 dy**	Pass		South Melbourne & South Yarra
36		Thursday, 21 January 2016	N4	2	1.92	19.5	**101.0**	80.5	**4.5 dry**	Fail	38	Ravenhall Prison
37		Thursday, 21 January 2016	O4	2	1.98	19.5	**108.0**	86.0	**3.0 dy**	Pass		Ravenhall Prison
38	36	Friday, 22 January 2016	N4	2	1.97	19.0	**96.0**	99.0	**0.0 OMC**	Pass		Ravenhall Prison

39		Wednesday, 27 January 2016	I (W)	3	2.00	16.5	**98.0**	89.0	**2.0 dry**	Pass		St. Albans
40		Wednesday, 27 January 2016	I	3	2.02	23.0	**99.5**	93.5	**1.5 dry**	Pass		St. Albans
41		Wednesday, 3 February 2016	O2 (W)	2	2.08		**104.0**		**3.0 wet**	Pass		Onsite-Werribee-South Melbourne
42		Wednesday, 3 February 2016	O2	2	2.01	21.0	**101.5**	98.5	**0.5 dry**	Pass		Onsite-Werribee-South Melbourne
43		Wednesday, 3 February 2016	O3	2	1.92	22.5	**101.0**	88.5	**3.0 dry**	Pass		Onsite-Werribee-South Melbourne
44		Thursday, 4 February 2016	M4	2	1.95	22.5	**105.5**	84.5	**4.0 dry**	Fail	47	Onsite-St.Albans-South Melbourne
45		Thursday, 4 February 2016	N4 (W)	2	1.95	21.0	**104.0**	83.0	**4.0 dry**	Fail	48	Onsite-St.Albans-South Melbourne
46		Thursday, 4 February 2016	N4 (E)	2	2.04	24.0	**108.5**	96.5	**1.0 dry**	Pass		Onsite-St.Albans-South Melbourne
47	44	Friday, 5 February 2016	M4	2	1.75	24.4	**93.5**	84.5	**4.0 dry**	Fail	50	Onsite-St.Albans-South Melbourne
48	45	Friday, 5 February 2016	N4 (W)	2	1.88	20.3	**95.0**	90.5	**2.0 dry**	Pass		Onsite-St.Albans-South Melbourne
49		Friday, 5 February 2016	L4 (E)	2	1.84	25.2	**96.0**	89.0	**3.0 dry**	Pass		Onsite-St.Albans-South Melbourne
50	47	Tuesday, 9 February 2016	M4	2	1.92	23.6	**94.0**	115.0	**3.0 wet**	Fail	55	Onsite-St.Albans-South Melbourne
51		Tuesday, 9 February 2016	N4 (SE)	3	1.88	29.5	**99.0**	101.0	**0.5 wet**	Pass		Onsite
52		Tuesday, 9 February 2016	O3	3	1.83	33.0	**94.5**	106.0	**1.5 wet**	Fail	56	Onsite
53		Tuesday, 9 February 2016	N3	3	1.83	18.7	**97.0**	82.0	**4.0 wet**	Fail	57	Onsite
54	29	Wednesday, 10 February 2016	L4	2	2.05	25.2	**102.0**	109.0	**2.0 wet**	Pass		Ravenhall Prison
55	50	Wednesday, 10 February 2016	M4	2	1.98	19.0	**98.5**	130.0	**4.5 wet**	Fail	58	Onsite-St.Albans-South Melbourne
56	52	Wednesday, 10 February 2016	O3	3	1.83	28.9	**95.5**	103.0	**1.0 wet**	Pass		Onsite
57	53	Wednesday, 10 February 2016	N3 (E)	3	1.88	25.1	**99.0**	101.5	**0.5 wet**	Pass		Onsite
58	55	Thursday, 11 February 2016	M4	2	1.85	22.4	**98.5**	87.5	**3.0 dry**	Pass		Onsite-St.Albans-South Melbourne
59		Thursday, 11 February 2016	O2	3	1.91	20.4	**103.5**	97.0	**0.5 dry**	Pass		Onsite
60		Friday, 12 February 2016	L4	3	1.85	30.1	**96.0**	104.5	**1.0 wet**	Pass		
61		Friday, 12 February 2016	L4 (NE)	3	1.88	20.4	**97.5**	97.5	**0.5 dry**	Pass		
62		Friday, 12 February 2016	M4 (NE)	3	1.90	20.9	**100.5**	95.5	**1.0 dry**	Pass		
63		Monday, 15 February 2016	N4	3	2.06	20.5	**103.0**	92.0	**1.5 dry**	Pass		Essendon-St.Albans
64		Monday, 15 February 2016	M4	3	1.98	19.0	**99.0**	88.5	**2.5 dry**	Pass		Essendon-St.Albans
65		Tuesday, 16 February 2016	L4 (E)	3	1.97	19.2	**99.5**	89.5	**2.0 dry**	Pass		Essendon
66		Tuesday, 16 February 2016	K5	3	1.94	22.0	**98.0**	97.0	**0.5 dry**	Pass		Essendon
67		Tuesday, 16 February 2016	J5	3	2.01	21.3	**100.0**	99.0	**0.5 dry**	Pass		Essendon
68		Wednesday, 17 February 2016	N4	4	2.01	18.0	**100.5**	89.5	**2.0 dry**	Pass		
69		Wednesday, 17 February 2016	M4	4	1.88	21.9	**99.5**	86.0	**3.5 dry**	Fail	70	
70	69	Thursday, 18 February 2016	M4	4	2.05	22.8	**105.0**	98.0	**0.5 dry**	Pass		
71		Thursday, 18 February 2016	L4	4	2.04	12.5	**98.0**	86.0	**2.0 dry**	Pass		
72		Friday, 19 February 2016	N5	3	2.08	13.8	**96.5**	99.0	**0.0 OMC**	Pass		Onsite BMD
73		Friday, 19 February 2016	M5	3	1.89	18.3	**98.0**	86.0	**3.0 dry**	Pass		Onsite BMD
74		Friday, 19 February 2016	L5	3	1.82	32.0	**95.5**	93.5	**2.0 dry**	Pass		Onsite BMD
75		Tuesday, 23 February 2016	N5	5	1.92	36.9	**99.5**	99.0	**0.5 dry**	Pass		Onsite BMD
76		Wednesday, 24 February 2016	O2	4	2.04	20.0	**100.5**	99.0	**0.0 OMC**	Pass		
77		Wednesday, 24 February 2016	O4 (E)	4	1.82	21.6	**93.0**	96.5	**1.0 dry**	Fail	78	
78	77	Thursday, 25 February 2016	O2 (E)	4	2.00	15.0	**103.0**	86.0	**2.5 dry**	Pass		
79		Friday, 26 February 2016	O3	4	1.93	19.5	**94.0**	100.0	**0.0 OMC**	Fail	80	
80	79	Monday, 29 February 2016	O3	4	2.08	18.2	**104.0**	98.5	**0.5 dry**	Pass		
81		Monday, 29 February 2016	O4	4	1.93	22.4	**105.5**	87.5	**3.0 dry**	Pass		
82		Tuesday, 1 March 2016	O2	5	1.89	22.6	**105.0**	87.5	**3.0 dry**	Pass		
83		Wednesday, 2 March 2016	N5	4	2.00	19.4	**99.5**	96.5	**0.5 dry**	Pass		
84		Wednesday, 2 March 2016	M5	4	1.98	21.6	**96.0**	98.5	**0.5 dry**	Pass		

85		Friday, 4 March 2016	N5	5	1.89	23.2	**95.5**	98.0	**0.5 dry**	Pass		
86		Friday, 4 March 2016	L5	5	1.92	18.8	**95.5**	97.0	**0.5 dry**	Pass		
87		Monday, 7 March 2016	L5	4	2.07	12.7	**99.5**	93.0	**1 dry**	Pass		
88		Monday, 7 March 2016	N5	4	1.98	22	**97.5**	102.0	**0.5 wet**	Pass		
89		Wednesday, 9 March 2016	N5	4	1.88	22.1	**95.5**	95.0	**1 dry**	Pass		
90		Wednesday, 9 March 2016	N5	4	1.92	19.3	**95.5**	97.5	**0.5 dry**	Pass		
91		Tuesday, 15 March 2016	N5	5	1.99	19.7	**98.0**	99.5	**OMC**	Pass		
92		Tuesday, 15 March 2016	L5	5	1.99	20.7	**98.0**	99.0	**OMC**	Pass		
93		Thursday, 17 March 2016	O4	3	1.95	23.7	**98.0**	89.5	**2.5 dry**	Pass		
94		Thursday, 17 March 2016	O5	3	1.95	19.5	**101.0**	87.0	**3 dry**	Pass		
95		Monday, 21 March 2016	O4	4	1.85	18.7	**99.5**	82.5	**4 dry**	Fail	95	
96		Monday, 21 March 2016	O5	4	1.94	19.1	**101**	89.5	**2 dry**	Pass		
97	95	Tuesday, 22 March 2016	O4	4	1.87	19.7	**98**	86.5	**3 dry**	Pass		
98		Tuesday, 22 March 2016	O4	5	2.01	19.2	**101**	99	**OMC**	Pass		
99		Wednesday, 23 March 2016	O4	5	1.86	21.7	**97**	98.5	**0.5 dry**	Pass		
100		Wednesday, 23 March 2016	O3	4	1.88	19.9	**98.5**	99.5	**omc**	Pass		
101		Wednesday, 20 July 2016	I5	4	2.13	23.1	**107.5**	100	**OMC**	Pass		
102		Wednesday, 20 July 2016	J5	3	1.94	18.9	**98.5**	95.5	**1.0 Dry**	Pass		
103		Thursday, 21 July 2016	K5	4	2.00	18.5	**100**	97.5	**0.5 dry**	Pass		
104		Thursday, 21 July 2016	L5	3	1.94	23.5	**97.5**	92.5	**1.5 dry**	Pass		
105		Tuesday, 26 July 2016	J5	4	1.97	25.5	**103.5**	86	**3.5 dry**	Fail	110	
106		Tuesday, 26 July 2016	J5	5	1.95	15.8	**102.5**	84.5	**3.0 dry**	Pass		
107		Tuesday, 26 July 2016	K5	5	2.05	26.2	**104**	90	**2.5 dry**	Pass		
108		Wednesday, 27 July 2016	J6	3	1.99	12.7	**89**	101.5	**OMC**	Fail	111	
109		Wednesday, 27 July 2016	L6	3	2.10	20.3	**105**	93	**1.5 dry**	Pass		
110	105	Wednesday, 27 July 2016	J5	4	2.06	20.5	**105**	91.5	**2.0 dry**	Pass		
111	108	Thursday, 28 July 2016	J6	3	1.96	16.8	**97.5**	111	**1.5 wet**	Pass		
112		Tuesday, 16 August 2016	N2	5	2.01	26.6	**101.5**	101	**OMC**	Pass		
113		Tuesday, 16 August 2016	O2	5	2.00	24.6	**100.5**	106	**1.5 Wet**	Pass		
114		Wednesday, 17 August 2016	N2	6	1.82	19.3	**89**	101	**OMC**	Fail	123	
115		Wednesday, 17 August 2016	O2	6	2.05	16.2	**100**	99.5	**OMC**	Pass		
116		Wednesday, 17 August 2016	O4	1	1.98	15	**98**	96.5	**0.5 Dry**	Pass		
117		Wednesday, 17 August 2016	O3	1	1.97	22.7	**99.5**	90	**2.5 Dry**	Pass		
118		Thursday, 18 August 2016	O4	4	1.96	16.7	**97**	96.5	**0.5 Dry**	Pass		
119		Thursday, 18 August 2016	O3	5	1.92	22.5	**96**	99	**0.5 Dry**	Pass		
120		Thursday, 18 August 2016	O5	5	1.94	20.4	**95**	98	**0.5 Dry**	Pass		
121		Thursday, 18 August 2016	N2	7	2.03	18	**101**	98.5	**0.5 Dry**	Pass		
122		Thursday, 18 August 2016	O2	7	1.98	19	**99.5**	91.5	**1.5 Dry**	Pass		
123	114	Thursday, 18 August 2016	N2	6	1.96	21	**100**	91.5	**2.0 Dry**	Pass		
124		Thursday, 18 August 2016	O3	6	1.96	23	**97**	101	**OMC**	Pass		
125		Thursday, 18 August 2016	O4	5	1.94	24.5	**96.5**	101.5	**0.5 Wet**	Pass		
126		Thursday, 18 August 2016	O5	6	1.92	22	**95**	98	**0.5 Dry**	Pass		
127		Thursday, 18 August 2016	N2	8	1.93	19.5	**100**	95	**1.0 Dry**	Pass		
128		Thursday, 18 August 2016	O2	8	1.90	22	**98**	80.5	**4.0 Dry**	Fail	136	
129		Tuesday, 23 August 2016	O5 W	7	1.97	24.6	**106.5**	89	**3.0 Dry**	Pass		
130		Tuesday, 23 August 2016	O4 W	6	1.92	17.7	**95**	99.5	**OMC**	Pass		

131		Tuesday, 23 August 2016	O3 W	7	2.00	15.9	**98**	100.5	**OMC**	Pass		
132		Tuesday, 23 August 2016	O3 E	4	1.90	26.7	**98**	106.5	**1.5 Wet**	Pass		
133		Tuesday, 23 August 2016	O4 E	4	1.92	24.9	**102**	88.5	**3.0 Dry**	Pass		
134		Wednesday, 24 August 2016	N3 North	5	2.02	23.2	**98.5**	104.5	**1.0 Wet**	Pass		
135		Wednesday, 24 August 2016	N3 South	5	2.04	15.2	**98**	101	**OMC**	Pass		
136	128	Wednesday, 24 August 2016	N2	8	1.85	26.7	**94**	106	**1.5 Wet**	Fail	148	
137		Wednesday, 24 August 2016	O3 East	5	1.88	26.9	**94**	101.5	**0.5 Wet**	Fail	146	
138		Wednesday, 24 August 2016	O4 East	5	1.96	26.3	**102.5**	92.5	**2.0 Dry**	Pass		
139		Wednesday, 24 August 2016	O5 East	5	1.84	22.4	**93.5**	98	**0.5 Dry**	Fail	147	
140		Wednesday, 24 August 2016	O5 West	8	1.90	23.6	**95.5**	99	**OMC**	Pass		
141		Wednesday, 24 August 2016	O4 West	7	1.99	20.4	**100**	97	**0.5 Dry**	Pass		
142		Wednesday, 24 August 2016	O3 West	8	1.88	20.2	**96**	92	**1.5 Dry**	Pass		
143		Thursday, 25 August 2016	O2	10	1.88	30.5	**100.5**	91	**2.5 Dry**	Pass		
144		Thursday, 25 August 2016	N3 South	6	1.99	25.3	**105**	92	**2.0 Dry**	Pass		
145		Thursday, 25 August 2016	N3 North	6	1.92	17	**99**	87	**2.5 Dry**	Pass		
146	137	Friday, 26 August 2016	O3 East	5	1.98	23.9	**106**	96.5	**1.0 Dry**	Pass		
147	139	Friday, 26 August 2016	O5 East	5	1.93	19.8	**101**	88	**2.5 Dry**	Pass		
148	136	Friday, 26 August 2016	N2	9	2.06	19.8	**104.5**	89	**2.5 Dry**	Pass		
149		Friday, 26 August 2016	N2	10	1.99	23.4	**105.5**	97	**1.0 Dry**	Pass		
150		Friday, 26 August 2016	J6	1	1.98	22.3	**104**	89	**2.5 Dry**	Pass		
151		Friday, 26 August 2016	I6	1	1.97	20.6	**101**	90.5	**2.0 Dry**	Pass		
152		Monday, 29 August 2016	K6	1	1.88	21.3	**103.5**	81	**5.0 Dry**	Fail	161	
153		Monday, 29 August 2016	I6	2	1.98	19.8	**103**	85	**3.0 Dry**	Pass		
154		Monday, 29 August 2016	J6	3	1.95	18.3	**98**	87	**2.5 Dry**	Pass		
155		Monday, 29 August 2016	I6	3	2.03	17.3	**101**	95.5	**0.5 Dry**	Pass		
156		Tuesday, 30 August 2016	N4	4	1.96	20.3	**100.5**	87.5	**3.0 Dry**	Pass		
157		Tuesday, 30 August 2016	N3 North	6	1.98	21.4	**100**	88.5	**2.5 Dry**	Pass		
158		Tuesday, 30 August 2016	N3 South	6	1.99	16.2	**101**	85.5	**2.5 Dry**	Pass		
159		Tuesday, 30 August 2016	I6	4	1.89	20.6	**99**	86	**3.0 Dry**	Pass		
160		Tuesday, 30 August 2016	J6	4	1.91	22.1	**94**	102.5	**0.5 Dry**	Fail	169	
161	152	Tuesday, 30 August 2016	K6	1	2.05	23.1	**102.5**	99	**OMC**	Pass		
162		Tuesday, 30 August 2016	J6	5	2.01	23.5	**99.5**	90	**2.0 Dry**	Pass		
163		Tuesday, 30 August 2016	I6	5	1.93	17.2	**98.5**	82.5	**3.5 Dry**	Fail	166	
164		Wednesday, 31 August 2016	I6	6	1.88	20.7	**98**	90.5	**2.0 Dry**	Pass		
165		Wednesday, 31 August 2016	J6	6	1.87	21.5	**95**	98.5	**0.5 Dry**	Pass		
166	163	Wednesday, 31 August 2016	K6	1	1.91	26.6	**95**	100.5	**OMC**	Pass		
167		Wednesday, 31 August 2016	K6	2	1.89	17.8	**96**	90	**2.0 Dry**	Pass		
168		Thursday, 1 September 2016	I6	7	2.06	14.8	**107**	77.5	**4.0 Dry**	Fail	172	
169	161	Thursday, 1 September 2016	J6	4	2.00	11.9	**105**	98	**OMC**	Pass		
170		Thursday, 1 September 2016	J6	7	1.98	23.4	**98.5**	102.5	**0.5 Wet**	Pass		
171		Thursday, 1 September 2016	K6	3	1.96	24.6	**99.5**	94	**1.5 Dry**	Pass		
172	168	Tuesday, 6 September 2016	I6	7	2.06	20.6	**105**	90	**2.0 Dry**	Pass		
173		Tuesday, 6 September 2016	K6	4	2.00	24.3	**101.5**	92.5	**1.5 Dry**	Pass		
174		Tuesday, 6 September 2016	J6	8	2.01	17.2	**103.5**	80	**4.0 Dry**	Fail	176	
175		Tuesday, 6 September 2016	I6	8	1.99	17.9	**102.5**	84.5	**3.0 Dry**	Pass		
176	174	Thursday, 8 September 2016	J6	8	2.05	18.1	**99.5**	99	**OMC**	Pass		

177		Thursday, 8 September 2016	M6 East	1	1.93	21.7	**101**	97.5	**0.5 Dry**	Pass		
178		Monday, 19 September 2016	L6	1	1.96	26.5	**100.5**	103.5	**1.0 Wet**	Pass		
179		Monday, 19 September 2016	M6	1	1.97	23.8	**99.5**	103.5	**0.5 Wet**	Pass		
180		Tuesday, 20 September 2016	N6	1	1.93	18.7	**98.5**	87	**2.5 Dry**	Pass		
181		Tuesday, 20 September 2016	O6	1	1.90	18.2	**95.5**	90.5	**2.0 Dry**	Pass		
182		Thursday, 22 September 2016	L5 South	2	2.03	23.5	**101**	102.5	**0.5 Wet**	Pass		
183		Thursday, 22 September 2016	M4 North	5	2.03	18.8	**99.5**	108	**1.5 Wet**	Pass		
184		Thursday, 22 September 2016	O6	2	1.93	16.2	**97**	90	**2.0 Dry**	Pass		
185		Thursday, 22 September 2016	L6	2	1.94	22.4	**95.5**	102	**0.5 Wet**	Pass		
186		Thursday, 22 September 2016	M6	2	2.00	20.3	**105.5**	91	**2.0 Dry**	Pass		
187		Friday, 23 September 2016	L5 South	3	1.93	23.4	**98.5**	104	**1.0 Wet**	Pass		
188		Friday, 23 September 2016	M4 North	6	1.96	23.5	**99.5**	99.5	**OMC**	Pass		
189		Friday, 23 September 2016	O6	4	2.02	21.4	**104.5**	90	**2.0 Dry**	Pass		
190		Friday, 23 September 2016	O6	3	2.00	19.8	**103**	98	**0.5 Dry**	Pass		
191		Friday, 23 September 2016	N6	2	2.05	16.3	**106.5**	84.5	**3.0 Dry**	Pass		
192		Monday, 26 September 2016	N6	3	1.98	22	**99**	99	**OMC**	Pass		
193		Monday, 26 September 2016	M6	3	1.94	21.8	**93.5**	112.5	**2.5 Wet**	Fail	203	
194		Monday, 26 September 2016	L6	3	2.02	20.4	**103.5**	96	**1.0 Dry**	Pass		
195		Monday, 26 September 2016	O6	5	1.91	22	**96**	98	**0.5 Dry**	Pass		
196		Wednesday, 12 October 2016	N6	4	1.98	22.2	**103**	90	**2.5 Dry**	Pass		
197		Wednesday, 12 October 2016	M6	4	1.98	23.6	**105.5**	89.5	**2.5 Dry**	Pass		
198		Wednesday, 12 October 2016	L6	4	1.97	19	**108**	76.5	**5.5 Dry**	Fail		Excluded test result, area was supervised under level 1 supervision and coffey believe the area is ok, A road is to be build over the test, an external testing company is testing the road and will retest this section.
199		Thursday, 13 October 2016	N5	6	1,98	20.3	**98.5**	89.5	**2.5 Dry**	Pass		
200		Thursday, 13 October 2016	M5	6	1.97	20.9	**102.5**	90	**2.0 Dry**	Pass		
201		Thursday, 13 October 2016	L5	6	1.98	21.6	**103**	90.5	**2.0 Dry**	Pass		
202		Thursday, 13 October 2016	M6 - East	5	2.01	22	**108.5**	88	**3.0 Dry**	Pass		
203	168	Thursday, 13 October 2016	M6 - West	3	2.01	21.4	**107**	87.5	**3.0 Dry**	Pass		
204		Thursday, 13 October 2016	L6	5	1.98	21.2	**108**	82.5	**4.5 Dry**	Fail		Excluded test result, area was supervised under level 1 supervision and coffey believe the area is ok, A road is to be build over the test, an external testing company is testing the road and will retest this section.
205		Friday, 14 October 2016	N5	7	1.97	23.1	**104**	91	**2.0 Dry**	Pass		
206		Friday, 14 October 2016	M5	7	2.04	24.3	**105**	90	**2.5 Dry**	Pass		
207		Friday, 14 October 2016	L5	7	1.99	27.3	**106**	91.5	**2.5 Dry**	Pass		
208		Friday, 14 October 2016	N6 South	7	2.01	22.7	**104.5**	90	**2.5 Dry**	Pass		
209		Tuesday, 18 October 2016	L5-NE	7	2.09	20.7	**100.5**	98	**0.5 Dry**	Pass		
210		Tuesday, 18 October 2016	L5-SE	6	2.04	17.5	**101**	100.5	**OMC**	Pass		
211		Friday, 21 October 2016	N5	9	2.05	18.4	**98**	100	**OMC**	Pass		
212		Friday, 21 October 2016	N5	9	1.98	20.7	**99.5**	95.5	**1.0 Dry**	Pass		
213		Friday, 21 October 2016	O6	6	2.04	21.3	**96.5**	102.5	**0.5 Wet**	Pass		
214		Friday, 21 October 2016	O6	6	2.01	21.3	**98.5**	97	**0.5 Dry**	Pass		

215		Tuesday 21 February 2017	L6	N/A	N/A	N/A	**N/A**	N/A	**1.0 Dry**	**N/A**		Pre-analysis testing sampled from stockpile
216/RW1		Wednesday, 22 February 2017	O3	1	1.92	17.5	**97**	98	**0.5 dry**	**Pass**		
217/RW2		Wednesday, 22 February 2017	O3	1	1.92	19.6	**95.5**	91	**1.5 dry**	**Pass**		
218/RW3		Wednesday, 22 February 2017	O4	1	1.93	20.7	**99**	97	**0.5 dry**	**Pass**		
219/RW4		Wednesday, 22 February 2017	O5	1	1.92	26.7	**100**	97.5	**0.5 dry**	**Pass**		
220/RW5		Thursday, 23 February 2017	O3	2	1.93	19.5	**100.5**	90.5	**2.0 dry**	**Pass**		
221/RW6		Thursday, 23 February 2017	O3	2	1.90	20.6	**99.5**	102	**0.5 wet**	**Pass**		
222/RW7		Thursday, 23 February 2017	O4	2	1.90	19	**98.5**	96.5	**3.0 dry**	**Pass**		
223/RW8		Thursday, 23 February 2017	O5	2	1.91	20.1	**100.5**	91.5	**2.0 dry**	**Pass**		
224/RW9		Friday, 24 February 2017	O3	3	1.94	16.8	**96.5**	85.5	**2.5 dry**	**Pass**		
225/RW10		Friday, 24 February 2017	O4	4	1.96	14.4	**98**	84.5	**2.5 dry**	**Pass**		
226/RW11		Friday, 24 February 2017	O5	5	1.94	18.1	**98.5**	90.5	**1.5 dry**	**Pass**		
227/RW12		Monday, 27 February 2017	O3	4	1.93	20.1	**103**	86.5	**3.0 dry**	**Pass**		
228/RW13		Monday, 27 February 2017	O4	4	1.89	28.7	**101.5**	110	**2.5 wet**	**Pass**		
229/RW14		Monday, 27 February 2017	O5	4	1.89	16	**98.5**	84	**3.0 dry**	**Pass**		
230/RW15		Monday, 27 February 2017	O3	5	1.89	17.2	**95**	109.5	**1.5 wet**	**Pass**		
231/RW16		Monday, 27 February 2017	O4	5	1.92	15.6	**95**	85.5	**2.5 dry**	**Pass**		
232/RW17		Monday, 27 February 2017	O5	5	1.90	18.2	**95**	106	**1.0 wet**	**Pass**		
233/RW18		Tuesday, 28 February 2017	O5	6	1.88	17	**96.5**	86	**2.5 dry**	**Pass**		
234/RW19		Tuesday, 28 February 2017	O4	6	1.90	20.3	**98.5**	90.5	**2.0 dry**	**Pass**		

Appendix A - Laboratory Results

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM15W01301

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM15W01301'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
P.O. Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 3/12/2015

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04552	ABTM15S-04553				
Field Sample ID	1	2				
Date Tested	2/12/2015	2/12/2015				
Time Tested	15:00	15:30				
Location	Stage 4	Stage 4				
	Grid I5 Middle	Grid I6(SE)				
	Layer 1	Layer 1				

Field and Laboratory Data

Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	22.0	20.0				
Field Wet Density (t/m³)	1.99	1.98				
Field Dry Density (t/m³)	1.63	1.65				
Peak Converted Wet Density* (t/m³)	1.95	1.94				
Optimum Moisture Content (%)	24.5	23.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	90.5	88.5				
Moisture Variation (%)	2.0 dry	2.5 dry				
Hilf Density Ratio (%)	**101.5**	**102.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM15W01314
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
P.O. Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 4/12/2015

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:
Source:
Material:

Sample Data

Sample ID	ABTM15S-04630					
Field Sample ID	3					
Date Tested	3/12/2015					
Time Tested	14:30					
Location	Stage 4					
	Grid J5					
	Middle					
	Layer 1					

Field and Laboratory Data

Depth of Test (mm)	275					
Depth of Layer (mm)	300					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	18.5					
Field Wet Density (t/m³)	2.05					
Field Dry Density (t/m³)	1.73					
Peak Converted Wet Density* (t/m³)	1.99					
Optimum Moisture Content (%)	19.0					
Compactive Effort	Standard					
Moisture Ratio (%)	99.0					
Moisture Variation (%)	0.0					
Hilf Density Ratio (%)	**103.5**					
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM15W01320
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
P.O. Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 7/12/2015

Sample Details

Location: Little Green Estate Stage 2, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Imported
Material:

Sample Data

Sample ID	ABTM15S-04649	ABTM15S-04650				
Field Sample ID	4	5				
Date Tested	4/12/2015	4/12/2015				
Time Tested	14:40	15:00				
Location	Grid K5 (N)	Grid L5 (NW)				
	Layer 1	Layer 1				
	Stage 4	Stage 4				
Field and Laboratory Data						
Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	14.0	14.0				
Field Wet Density (t/m³)	2.12	1.91				
Field Dry Density (t/m³)	1.86	1.67				
Peak Converted Wet Density* (t/m³)	2.10	1.96				
Optimum Moisture Content (%)	14.5	16.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	96.0	87.0				
Moisture Variation (%)	0.5 dry	2.0 dry				
Hilf Density Ratio (%)	**100.5**	**97.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM15W01344
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
P.O. Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 11/12/2015

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04709	ABTM15S-04710	ABTM15S-04711	ABTM15S-04712		
Field Sample ID	6	7	8	9		
Date Tested	10/12/2015	10/12/2015	10/12/2015	10/12/2015		
Time Tested	14:20	14:40	14:50	15:15		
Location	Stage 4	Stage 4	Stage 4	Stage 4		
	Grid L4	Grid M4	Grid M5 (N)	Grid L5		
	Layer 1	Layer 1	Layer 1	Layer 1		
Field and Laboratory Data						
Depth of Test (mm)	275	275	275	275		
Depth of Layer (mm)	300	300	300	300		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	20.0	18.5	18.5	14.5		
Field Wet Density (t/m³)	1.90	2.01	2.11	2.06		
Field Dry Density (t/m³)	1.58	1.69	1.78	1.79		
Peak Converted Wet Density* (t/m³)	1.99	2.07	1.98	2.08		
Optimum Moisture Content (%)	22.5	18.5	20.5	17.5		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	89.5	100.0	90.0	85.5		
Moisture Variation (%)	2.0 dry	0.0	2.0 dry	2.5 dry		
Hilf Density Ratio (%)	**95.5**	**97.0**	**107.0**	**99.0**		
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM15W01397
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 18/12/2015

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04927	ABTM15S-04928	ABTM15S-04929			
Field Sample ID	10	11	12			
Date Tested	17/12/2015	17/12/2015	17/12/2015			
Time Tested	14:00	14:30	15:00			
Location	Stage 4	Stage 4	Stage 4			
	Grid N5 (S)	Grid O4 (SW)	Grid O5 (NW)			
	Layer 1	Layer 1	Layer 1			
Field and Laboratory Data						
Depth of Test (mm)	275	275	225			
Depth of Layer (mm)	300	300	250			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	14.5	20.0	8.5			
Field Wet Density (t/m³)	2.06	1.98	1.89			
Field Dry Density (t/m³)	1.80	1.65	1.74			
Peak Converted Wet Density* (t/m³)	2.08	2.01	2.12			
Optimum Moisture Content (%)	17.0	22.5	11.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	85.5	89.0	77.5			
Moisture Variation (%)	2.5 dry	2.5 dry	2.5 dry			
Hilf Density Ratio (%)	**99.0**	**98.5**	**89.0**			
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM15W01404
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 21/12/2015

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM15S-04949	ABTM15S-04950	ABTM15S-04951			
Field Sample ID	13	14	15			
Date Tested	18/12/2015	18/12/2015	18/12/2015			
Time Tested	14:40					
Location	Stage 4	Stage 4	Stage 4			
	Grid O5 (NW)	Grid O5 (NE)	Grid O3 (NW)			
	Retest of No 12					

Field and Laboratory Data

Depth of Test (mm)	275	275	275			
Depth of Layer (mm)	300	300	300			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	3	0	0			
Field Moisture Content (%)	13.5	18.5	13.5			
Field Wet Density (t/m³)	2.08	1.93	2.04			
Field Dry Density (t/m³)	1.83	1.63	1.80			
Peak Converted Wet Density* (t/m³)	2.10	2.03	2.10			
Optimum Moisture Content (%)	15.5	19.0	15.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	87.5	97.5	86.5			
Moisture Variation (%)	2.0 dry	0.5 dry	2.0 dry			
Hilf Density Ratio (%)	**99.0**	**95.0**	**97.5**			
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00001

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W00001'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 23/01/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM16S-00001	ABTM16S-00002				
Field Sample ID	16	17				
Date Tested	22/12/2015	22/12/2015				
Time Tested	13:45					
Location	Grid I5 (N)	Grid J6 (SW)				
	Layer 2	Layer 2				
	Stage 4	Stage 4				

Field and Laboratory Data

Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	20.0	17.5				
Field Wet Density (t/m³)	1.90	1.96				
Field Dry Density (t/m³)	1.59	1.66				
Peak Converted Wet Density* (t/m³)	2.01	1.97				
Optimum Moisture Content (%)	20.0	20.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	98.0	87.5				
Moisture Variation (%)	0.5 dry	2.5 dry				
Hilf Density Ratio (%)	**95.0**	**99.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00002

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W00002'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 23/01/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM16S-00003	ABTM16S-00004
Field Sample ID	18	19
Date Tested	22/12/2015	22/12/2015
Time Tested	14:30	14:45
Location	Grid O4 (NE)	Grid O3 (NE)
	Layer 1	Layer 1
	Stage 4	Stage 4

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	10.5	22.0
Field Wet Density (t/m³)	2.09	1.98
Field Dry Density (t/m³)	1.89	1.62
Peak Converted Wet Density* (t/m³)	2.18	2.04
Optimum Moisture Content (%)	12.0	21.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	87.5	100.5
Moisture Variation (%)	1.5 dry	0.0
Hilf Density Ratio (%)	**96.0**	**97.0**
legend * adjusted for oversize material		

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00027
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 9/01/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM16S-00094	ABTM16S-00095
Field Sample ID	20	21
Date Tested	8/01/2016	8/01/2016
Time Tested	13:45	14:20
Location	Stage 4	Stage 4
	Grid O2 (E)	Grid N2 (E)
	Layer 1	Layer 1

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	13.0	15.5
Field Wet Density (t/m³)	2.20	1.96
Field Dry Density (t/m³)	1.94	1.69
Peak Converted Wet Density* (t/m³)	2.11	2.07
Optimum Moisture Content (%)	14.0	16.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	95.0	97.5
Moisture Variation (%)	0.5 dry	0.5 dry
Hilf Density Ratio (%)	**104.0**	**95.0**
legend * adjusted for oversize material		

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00036
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.:
Project Name:
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Ketankumar Patel
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 12/01/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM DRY DENSITY RATIO OF 95% of Standard Compaction (as advised by client) (+3 to -3) OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: On Site
Material: General Fill

Sample Data

Sample ID	ABTM16S-00124	ABTM16S-00125				
Field Sample ID	22	23				
Date Tested	11/01/2016	11/01/2016				
Time Tested	11:30	11:45				
Location	Lot b/w rd I&F	Lot b/w rd I&F				
	Grid I5	Gird J5				
	Layer 2	Layer 2				
Field and Laboratory Data						
Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	16.0	19.5				
Field Wet Density (t/m³)	1.99	2.09				
Field Dry Density (t/m³)	1.71	1.75				
Peak Converted Wet Density* (t/m³)	2.01	2.08				
Optimum Moisture Content (%)	15.5	19.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	102.5	100.5				
Moisture Variation (%)	0.5 wet	0.0				
Hilf Density Ratio (%)	**98.5**	**101.0**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00050
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Ketankumar Patel
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 14/01/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM DRY DENSITY RATIO OF 95% of Standard Compaction (as advised by client) (+3 TO -3) OMC
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00191					
Field Sample ID	24					
Date Tested	13/01/2016					
Time Tested	09:50					
Location	Grid J 5					
	Layer 2					

Field and Laboratory Data

Depth of Test (mm)	250					
Depth of Layer (mm)	300					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	28.5					
Field Wet Density (t/m³)	1.87					
Field Dry Density (t/m³)	1.46					
Peak Converted Wet Density* (t/m³)	1.92					
Optimum Moisture Content (%)	26.5					
Compactive Effort	Standard					
Moisture Ratio (%)	106.5					
Moisture Variation (%)	1.5 wet					
Hilf Density Ratio (%)	**97.5**					
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00056
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Ketankumar Patel
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 15/01/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: On Site
Material: General Fill

Sample Data

Sample ID	ABTM16S-00200	ABTM16S-00201				
Field Sample ID	25	26				
Date Tested	14/01/2016	14/01/2016				
Time Tested	15:00	15:15				
Location	Grid L 5	Grid M 5				
	Layer 2	Layer 2				

Field and Laboratory Data

Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	14.5	14.5				
Field Wet Density (t/m³)	2.12	2.10				
Field Dry Density (t/m³)	1.86	1.83				
Peak Converted Wet Density* (t/m³)	2.07	2.08				
Optimum Moisture Content (%)	16.5	17.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	86.0	85.0				
Moisture Variation (%)	2.0 dry	2.5 dry				
Hilf Density Ratio (%)	**103.0**	**101.0**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00061
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 18/01/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction -3% to +3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM16S-00215	ABTM16S-00216
Field Sample ID	27	28
Date Tested	15/01/2016	15/01/2016
Time Tested	14:10	14:15
Location	Stage 4	Stage 4
	Grid M5	Grid L5
	Layer 2	Layer 2

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	21.0	16.0
Field Wet Density (t/m³)	1.98	2.04
Field Dry Density (t/m³)	1.64	1.76
Peak Converted Wet Density* (t/m³)	1.94	2.11
Optimum Moisture Content (%)	24.5	16.0
Compactive Effort	Standard	Standard
Moisture Ratio (%)	87.0	98.0
Moisture Variation (%)	3.0 dry	0.5 dry
Hilf Density Ratio (%)	**102.5**	**97.0**
legend * adjusted for oversize material		

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00066
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Ketankumar Patel
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 19/01/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM DRY DENSITY RATIO OF 95% of Standard Compaction (as advised by client) (+3 To -3) OMC
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00226	ABTM16S-00227				
Field Sample ID	29	30				
Date Tested	18/01/2016	18/01/2016				
Time Tested	14:50	15:10				
Location	Grid L 4(W)	Grid M 4(W)				
	Layer 2	Layer 2				

Field and Laboratory Data

Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	20.0	23.0				
Field Wet Density (t/m³)	1.97	1.99				
Field Dry Density (t/m³)	1.64	1.62				
Peak Converted Wet Density* (t/m³)	1.89	1.89				
Optimum Moisture Content (%)	25.0	25.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	80.0	90.0				
Moisture Variation (%)	4.5 dry	2.5 dry				
Hilf Density Ratio (%)	**104.5**	**105.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00075
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Ketankumar Patel
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/01/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: On Site
Material: General Fill

Sample Data

Sample ID	ABTM16S-00259	ABTM16S-00260				
Field Sample ID	31	32				
Date Tested	19/01/2016	19/01/2016				
Location	Grid M 4(W)	Grid M 4(E)				
	Layer 2	Layer 2				
Field and Laboratory Data						
Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	16.0	16.5				
Field Wet Density (t/m³)	2.03	2.01				
Field Dry Density (t/m³)	1.75	1.73				
Peak Converted Wet Density* (t/m³)	1.90	1.96				
Optimum Moisture Content (%)	19.0	19.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	85.0	84.0				
Moisture Variation (%)	3.0 dry	3.0 dry				
Hilf Density Ratio (%)	**106.5**	**102.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00081

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Date of Issue:

Sample Details

Location: Little Green
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material: Fill

Sample Data

Sample ID	ABTM16S-00309	ABTM16S-00310	ABTM16S-00311			
Field Sample ID	33	34	35			
Date Tested	20/01/2016	20/01/2016	20/01/2016			
Time Tested	14:55	15:10	15:25			
Location	Stage 4	Stage 4	Stage 4			
	Layer 2	Layer 2	Layer 2			
	Grid N5	Grid N5 (E)	Grid O5			

Field and Laboratory Data

Depth of Test (mm)	275	275	275			
Depth of Layer (mm)	300	300	300			
AS Sieve Size (mm)	19.0	19.0	19.0			
Field Moisture Content (%)	26.5	17.0	8.0			
Field Wet Density (t/m³)	1.87	2.11	2.07			
Field Dry Density (t/m³)	1.48	1.80	1.92			
Peak Converted Wet Density* (t/m³)	1.93	2.09	2.12			
Optimum Moisture Content (%)	26.5	19.0	10.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	100.5	90.0	73.5			
Moisture Variation (%)	0.0	2.0 dry	3.0 dry			
Hilf Density Ratio (%)	**97.0**	**101.0**	**97.5**			
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00084
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Shaun Price
(Laboratory Manager)
NATA Accredited Laboratory Number:431
Date of Issue: 22/01/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample Data

Sample ID	ABTM16S-00320	ABTM16S-00321
Field Sample ID	36	37
Date Tested	21/01/2016	21/01/2016
Time Tested	15:15	15:30
Location	Stage 4	Stage 4
	Layer 2	Layer 2
	Grid N4	Grid O4

Field and Laboratory Data

Depth of Test (mm)	275	275
Depth of Layer (mm)	300	300
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	6	0
Field Moisture Content (%)	19.5	19.5
Field Wet Density (t/m³)	1.92	1.98
Field Dry Density (t/m³)	1.60	1.66
Peak Converted Wet Density* (t/m³)	1.89	1.83
Optimum Moisture Content (%)	24.5	22.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	80.5	86.0
Moisture Variation (%)	4.5 dry	3.0 dry
Hilf Density Ratio (%)	**101.0**	**108.0**
legend * adjusted for oversize material		

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00091
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	SPIIRE/AMEX CORPORATION
Project No.:	INFOABTM00385AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 23/01/2016

Sample Details

Location:	Little Green Estate, Tarneit, Vic
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00341		
Field Sample ID	00186		
Date Tested	22/01/2016		
Time Tested	11:30		
Location	Stage 4		
	Layer 2		
	N4		

Field and Laboratory Data

Depth of Test (mm)	275		
Depth of Layer (mm)	300		
Field Moisture Content (%)	19.0		
Field Wet Density (t/m³)	1.97		
Field Dry Density (t/m³)	1.65		
Peak Converted Wet Density* (t/m³)	2.05		
Optimum Moisture Content (%)	19.0		
Compactive Effort	Standard		
Moisture Ratio (%)	99.0		
Moisture Variation (%)	0.0		
Hilf Density Ratio (%)	**96.0**		
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00098
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 28/01/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Imported
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00357	ABTM16S-00358	
Field Sample ID	39	40	
Date Tested	27/01/2016	27/01/2016	
Time Tested	15:15	15:25	
Location	Stage 4	Stage 4	
	Layer 3	Layer 3	
	Grid I (W)	Grid I	

Field and Laboratory Data

Depth of Test (mm)	275	275	
Depth of Layer (mm)	300	300	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	9	9	
Field Moisture Content (%)	16.5	23.0	
Field Wet Density (t/m³)	2.00	2.02	
Field Dry Density (t/m³)	1.72	1.65	
Peak Converted Wet Density* (t/m³)	2.04	2.03	
Optimum Moisture Content (%)	18.5	24.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	89.0	93.5	
Moisture Variation (%)	2.0 dry	1.5 dry	
Hilf Density Ratio (%)	**98.0**	**99.5**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Services Australia Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
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Report No: HDR:ABTM16W00116

Preliminary Report Issued - Issue No.:1,2 **Issue No: 3**

This report replaces all previous issues of report no 'HDR:ABTM16W00116'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025 - Testing.

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

Approved Signatory: Shaun Price
(Senior Geotechnical Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 23/03/2017

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00432	ABTM16S-00433	ABTM16S-00434			
Field Sample ID	41	42	43			
Date Tested	3/02/2016	3/02/2016	3/02/2016			
Time Tested	16:00	16:15	16:25			
Location	Site 1	Site 2	Site 3			
Field and Laboratory Data						
Depth of Test (mm)	275	275	275			
Depth of Layer (mm)	300	300	300			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	26.0	21.0	22.5			
Field Wet Density (t/m³)	2.08	2.01	1.92			
Field Dry Density (t/m³)	1.65	1.66	1.57			
Peak Converted Wet Density* (t/m³)	2.00	1.98	1.90			
Optimum Moisture Content (%)	23.0	21.0	25.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	113.0	98.5	88.5			
Moisture Variation (%)	3.0 wet	0.5 dry	3.0 dry			
Hilf Density Ratio (%)	**104.0**	**101.5**	**101.0**			
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00126

Issue No: 2

This report replaces all previous issues of report no 'HDR:ABTM16W00126'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Bryce Slinn
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 5/02/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: On Site
Material: Insitu

Sample Data

Sample ID	ABTM16S-00480	ABTM16S-00481	ABTM16S-00482			
Field Sample ID	00044	00045	00046			
Date Tested	4/02/2016	4/02/2016	4/02/2016			
Time Tested	16:00	16:15	16:30			
Location	Grid 4	Grid N4	Grid N4			
	Layer 2	West	East			
		Layer 2	Layer 2			

Field and Laboratory Data

Depth of Test (mm)	275	275	275			
Depth of Layer (mm)	300	300	300			
AS Sieve Size (mm)	19.0	19.0	19.0			
Oversize Wet (%)	0	0	8			
Field Moisture Content (%)	22.5	21.0	24.0			
Field Wet Density (t/m³)	1.95	1.95	2.04			
Field Dry Density (t/m³)	1.59	1.61	1.64			
Peak Converted Wet Density* (t/m³)	1.85	1.88	1.87			
Optimum Moisture Content (%)	26.5	25.5	25.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	84.5	83.0	96.5			
Moisture Variation (%)	4.0 dry	4.0 dry	1.0 dry			
Hilf Density Ratio (%)	**105.5**	**104.0**	**108.5**			
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00135
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 8/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00493	ABTM16S-00494	ABTM16S-00495
Field Sample ID	47	48	49
Client Sample ID	47	48	49
Date Tested	5/02/2016	5/02/2016	5/02/2016
Time Tested	13:40	13:55	14:15
Location	Retest of 45	Retest of 44	Grid L4(E)
	Grid M4	Grid L4(SE)	Layer 2
	Layer 2	Layer 2	

Field and Laboratory Data

Depth of Test (mm)	275	275	275
Depth of Layer (mm)	300	300	300
Oversize Wet (%)	9	17	
Field Moisture Content (%)	24.4	20.3	25.2
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.75	1.88	1.84
Field Dry Density (t/m³)	1.40	1.56	1.47
Peak Converted Wet Density* (t/m³)	1.87	1.97	1.92
Optimum Moisture Content (%)	29.0	22.5	28.5
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	84.5	90.5	89.0
Moisture Variation (%)	4.0 dry	2.0 dry	3.0 dry
Hilf Density Ratio (%)	**93.5**	**95.0**	**96.0**
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00146
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Bryce Slinn
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 10/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00530	ABTM16S-00531	ABTM16S-00532	ABTM16S-00533		
Field Sample ID	50	51	52	53		
Client Sample ID	50	51	52	53		
Date Tested	9/02/2016	9/02/2016	9/02/2016	9/02/2016		
Location	Retest of 47	Layer 3	Layer 3	Layer 3		
	Layer 2	Grid N4(SE)	Grid O3	Grid N3		
	Grid M4					
Field and Laboratory Data						
Depth of Test (mm)	275	275	275	275		
Depth of Layer (mm)	300	300	300	300		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	23.6	29.5	33.0	18.7		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.92	1.88	1.83	1.83		
Field Dry Density (t/m³)	1.55	1.45	1.37	1.54		
Peak Converted Wet Density* (t/m³)	2.03	1.90	1.94	1.88		
Optimum Moisture Content (%)	20.5	29.5	31.0	23.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	115.0	101.0	106.0	82.0		
Moisture Variation (%)	3.0 wet	0.5 wet	1.5 wet	4.0 dry		
Hilf Density Ratio (%)	**94.0**	**99.0**	**94.5**	**97.0**		
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00148
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Bryce Slinn
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 11/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00536	ABTM16S-00537	ABTM16S-00538	ABTM16S-00539		
Field Sample ID	54	55	56	57		
Client Sample ID	54	55	56	57		
Date Tested	10/02/2016	10/02/2016	10/02/2016	10/02/2016		
Time Tested	15:45	16:15	16:30	16:40		
Location	Layer 2	Layer 2	Layer 3	Layer 3		
	Grid L4	Grid M4	Grid O3	Grid N3 (6)		
	Retest of #29	Retest of #50	Retest of #52	Retest of #53		
Field and Laboratory Data						
Depth of Test (mm)	275	275	275	275		
Depth of Layer (mm)	300	300	300	300		
Oversize Wet (%)	8	13	0	0		
Field Moisture Content (%)	25.2	19.0	28.9	25.1		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	2.05	1.98	1.83	1.88		
Field Dry Density (t/m³)	1.64	1.66	1.42	1.51		
Peak Converted Wet Density* (t/m³)	2.01	2.01	1.91	1.90		
Optimum Moisture Content (%)	23.0	14.5	28.0	25.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	109.0	130.0	103.0	101.5		
Moisture Variation (%)	2.0 wet	4.5 wet	1.0 wet	0.5 wet		
Hilf Density Ratio (%)	**102.0**	**98.5**	**95.5**	**99.0**		
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
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Abbotsford VIC 3067

ABN 92 114 364 046
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Report No: HDR:ABTM16W00156
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Bryce Slinn
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 12/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00567	ABTM16S-00568				
Field Sample ID	00058	00059				
Client Sample ID	00058	00059				
Date Tested	11/02/2016	11/02/2016				
Time Tested	13:50	13:55				
Location	Retest of #55	Stage 4				
	Stage 4	Layer 3				
	Layer 2	Grid O2				
	Grid M4					
Field and Laboratory Data						
Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	22.4	20.4				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.85	1.91				
Field Dry Density (t/m³)	1.51	1.59				
Peak Converted Wet Density* (t/m³)	1.88	1.84				
Optimum Moisture Content (%)	25.5	21.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	87.5	97.0				
Moisture Variation (%)	3.0 dry	0.5 dry				
Hilf Density Ratio (%)	**98.5**	**103.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00167
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Bryce Slinn
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 15/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00600	ABTM16S-00601	ABTM16S-00602			
Field Sample ID	00060	00061	00062			
Date Tested	12/02/2016	12/02/2016	12/02/2016			
Time Tested	14:10	14:25	16:40			
Location	Grid L4	Grid L4 (N/E)	Grid M4(N/E)			
	Layer 3	Layer 3	Layer 3			
Field and Laboratory Data						
Depth of Test (mm)	275	275	275			
Depth of Layer (mm)	300	300	300			
Oversize Wet (%)	7	0	0			
Field Moisture Content (%)	30.1	20.4	20.9			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.85	1.88	1.90			
Field Dry Density (t/m³)	1.42	1.56	1.57			
Peak Converted Wet Density* (t/m³)	1.93	1.93	1.89			
Optimum Moisture Content (%)	29.0	21.0	22.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	104.5	97.5	95.5			
Moisture Variation (%)	1.0 wet	0.5 dry	1.0 dry			
Hilf Density Ratio (%)	**96.0**	**97.5**	**100.5**			
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00178
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Bryce Slinn
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 16/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00635	ABTM16S-00636				
Field Sample ID	63	64				
Client Sample ID	63	64				
Date Tested	15/02/2016	15/02/2016				
Location	Stage 4	Stage 4				
	Layer 3	Layer 3				
	Grid N4	Grid M4				
Field and Laboratory Data						
Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	20.5	19.0				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.06	1.98				
Field Dry Density (t/m³)	1.71	1.66				
Peak Converted Wet Density* (t/m³)	2.00	2.00				
Optimum Moisture Content (%)	22.5	21.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	92.0	88.5				
Moisture Variation (%)	1.5 dry	2.5 dry				
Hilf Density Ratio (%)	**103.0**	**99.0**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00192
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Bryce Slinn
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 17/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00705	ABTM16S-00706	ABTM16S-00707			
Field Sample ID	65	66	67			
Client Sample ID	65	66	67			
Date Tested	16/02/2016	16/02/2016	16/02/2016			
Time Tested	13:55	14:05	14:15			
Location	Stage 4 Layer 3	Stage 4 Layer 3	Stage 4 Layer 3			
	Grid L4 (E)	Grid K5	Grid J5			
Field and Laboratory Data						
Depth of Test (mm)	275	275	275			
Depth of Layer (mm)	300	300	300			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	19.2	22.0	21.3			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.97	1.94	2.01			
Field Dry Density (t/m³)	1.65	1.59	1.66			
Peak Converted Wet Density* (t/m³)	1.98	1.99	2.01			
Optimum Moisture Content (%)	21.5	22.5	21.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	89.5	97.0	99.0			
Moisture Variation (%)	2.0 dry	0.5 dry	0.5 dry			
Hilf Density Ratio (%)	**99.5**	**98.0**	**100.0**			
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00197
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Bryce Slinn
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 18/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00731	ABTM16S-00732				
Field Sample ID	68	69				
Client Sample ID	68	69				
Date Tested	17/02/2016	17/02/2016				
Time Tested	15:05	15:25				
Location	Stage 4	Stage 4				
	Layer 4	Layer 4				
	Grid N4	Grid M4				
Field and Laboratory Data						
Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	18.0	21.9				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.01	1.88				
Field Dry Density (t/m³)	1.70	1.54				
Peak Converted Wet Density* (t/m³)	2.00	1.89				
Optimum Moisture Content (%)	20.0	25.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	89.5	86.0				
Moisture Variation (%)	2.0 dry	3.5 dry				
Hilf Density Ratio (%)	**100.5**	**99.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00200
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: G. Samaradiwakara
(Associate Engineering Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 19/02/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: On Site
Material: General Fill

Sample Data

Sample ID	ABTM16S-00747	ABTM16S-00748				
Field Sample ID	00070	00071				
Client Sample ID	S-000747	S-000748				
Date Tested	18/02/2016	18/02/2016				
Time Tested	13:40	14:00				
Location	Stage 4	Stage 4				
	Layer 4	Layer 4				
	Grid M4	Grid L4				
	Retest of 69					
Field and Laboratory Data						
Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	22.8	12.5				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.05	2.04				
Field Dry Density (t/m³)	1.67	1.81				
Peak Converted Wet Density* (t/m³)	1.95	2.08				
Optimum Moisture Content (%)	23.0	14.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	98.0	86.0				
Moisture Variation (%)	0.5 dry	2.0 dry				
Hilf Density Ratio (%)	**105.0**	**98.0**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
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Report No: HDR:ABTM16W00209
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 22/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00777	ABTM16S-00778	ABTM16S-00793
Field Sample ID	00072	00073	00075
Date Tested	19/02/2016	19/02/2016	19/02/2016
Time Tested	13:40	14:00	14:40
Location	Stage 4	Stage 4	Stage 4
	Layer 3	Layer 3	Layer 3
	Grid N5	Grid M5	Grid L5
Field and Laboratory Data			
Depth of Test (mm)	275	275	275
Depth of Layer (mm)	300	300	300
Oversize Wet (%)	0	0	0
Field Moisture Content (%)	13.8	18.3	32.0
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	2.08	1.89	1.82
Field Dry Density (t/m³)	1.83	1.60	1.38
Peak Converted Wet Density* (t/m³)	2.16	1.93	1.91
Optimum Moisture Content (%)	14.0	21.5	34.0
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	99.0	86.0	93.5
Moisture Variation (%)	0.0	3.0 dry	2.0 dry
Hilf Density Ratio (%)	**96.5**	**98.0**	**95.5**
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00218
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 24/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00819		
Field Sample ID	00075		
Date Tested	23/02/2016		
Time Tested	12:40		
Location	Stage 4		
	Layer 5		
	Grid N4		

Field and Laboratory Data

Depth of Test (mm)	275		
Depth of Layer (mm)	300		
Oversize Wet (%)	0		
Field Moisture Content (%)	36.9		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.92		
Field Dry Density (t/m³)	1.40		
Peak Converted Wet Density* (t/m³)	1.93		
Optimum Moisture Content (%)	37.5		
Compactive Effort	Standard		
Moisture Ratio (%)	99.0		
Moisture Variation (%)	0.5 dry		
Hilf Density Ratio (%)	**99.5**		
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00231
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
PO Box 40
Kew VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 25/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00854	ABTM16S-00857	
Field Sample ID	00076	00077	
Date Tested	24/02/2016	24/02/2016	
Time Tested	14:15	14:35	
Location	Stage 4	Stage 4	
	Layer 4	Layer 4	
	Grid O2	Grid O4 (E)	
Soil Description	Light tan and brown coloured clay, silt and crushed rock	Light tan and brown coloured clay, silt and crushed rock	
Field and Laboratory Data			
Depth of Test (mm)	275	275	
Depth of Layer (mm)	300	300	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	20.0	21.6	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.04	1.82	
Field Dry Density (t/m³)	1.70	1.50	
Peak Converted Wet Density* (t/m³)	2.03	1.96	
Optimum Moisture Content (%)	20.0	22.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	99.0	96.5	
Moisture Variation (%)	0.0	1.0 dry	
Hilf Density Ratio (%)	**100.5**	**93.0**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00246
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 26/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00888		
Field Sample ID	00078		
Date Tested	25/02/2016		
Time Tested	14:30		
Location	Stage 4		
	Layer 4		
	Grid O2 (E)		
	Retest of #77		
Soil Description	Clay, silt and crushed rock		

Field and Laboratory Data

Depth of Test (mm)	275		
Depth of Layer (mm)	300		
Oversize Wet (%)	8		
Field Moisture Content (%)	15.0		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	2.00		
Field Dry Density (t/m³)	1.73		
Peak Converted Wet Density* (t/m³)	1.94		
Optimum Moisture Content (%)	17.5		
Compactive Effort	Standard		
Moisture Ratio (%)	86.0		
Moisture Variation (%)	2.5 dry		
Hilf Density Ratio (%)	**103.0**		
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00253
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 29/02/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00909		
Field Sample ID	00079		
Date Tested	26/02/2016		
Time Tested	13:30		
Location	Stage 4		
	Layer 4		
	Grid O3		
Soil Description	Orange-brown clay, silt		

Field and Laboratory Data

Depth of Test (mm)	275		
Depth of Layer (mm)	300		
Oversize Wet (%)	0		
Field Moisture Content (%)	19.5		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.93		
Field Dry Density (t/m³)	1.62		
Peak Converted Wet Density* (t/m³)	2.06		
Optimum Moisture Content (%)	19.5		
Compactive Effort	Standard		
Moisture Ratio (%)	100.0		
Moisture Variation (%)	0.0		
Hilf Density Ratio (%)	**94.0**		
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00261
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 1/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00931	ABTM16S-00932	
Field Sample ID	00080	00081	
Client Sample ID	00080	00081	
Date Tested	29/02/2016	29/02/2016	
Time Tested	13:15	13:30	
Location	Stage 4	Stage 4	
	Layer 4	Layer 4	
	Grid O3	Grid O4	
	restest of Test #79		
Soil Description	Orange-brown silt, clay and crushed rock.	Orange-brown silt, clay and crushed rock.	
Field and Laboratory Data			
Depth of Test (mm)	275	275	
Depth of Layer (mm)	300	300	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	18.2	22.4	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.08	1.93	
Field Dry Density (t/m³)	1.76	1.58	
Peak Converted Wet Density* (t/m³)	2.00	1.83	
Optimum Moisture Content (%)	18.5	25.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	98.5	87.5	
Moisture Variation (%)	0.5 dry	3.0 dry	
Hilf Density Ratio (%)	**104.0**	**105.5**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00273
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 2/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-00959		
Field Sample ID	00084		
Date Tested	1/03/2016		
Time Tested	12:45		
Location	Stage 4		
	Layer 5		
	Grid O2		
	Box 760		

Field and Laboratory Data

Depth of Test (mm)	275		
Depth of Layer (mm)	300		
Oversize Wet (%)	0		
Field Moisture Content (%)	22.6		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.89		
Field Dry Density (t/m³)	1.54		
Peak Converted Wet Density* (t/m³)	1.80		
Optimum Moisture Content (%)	26.0		
Compactive Effort	Standard		
Moisture Ratio (%)	87.5		
Moisture Variation (%)	3.0 dry		
Hilf Density Ratio (%)	**105.0**		
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00281
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 3/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-00994	ABTM16S-00995	
Field Sample ID	83	84	
Client Sample ID	83	84	
Date Tested	2/03/2016	2/03/2016	
Location	Layer 4	Layer 4	
	Grid N5	Grid M5	
Field and Laboratory Data			
Depth of Test (mm)	275	275	
Depth of Layer (mm)	300	300	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	19.4	21.6	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.00	1.98	
Field Dry Density (t/m³)	1.67	1.63	
Peak Converted Wet Density* (t/m³)	2.01	2.06	
Optimum Moisture Content (%)	20.0	22.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	96.5	98.5	
Moisture Variation (%)	0.5 dry	0.5 dry	
Hilf Density Ratio (%)	**99.5**	**96.0**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00295
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 7/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-01022	ABTM16S-01023
Field Sample ID	00085	00086
Client Sample ID	85	86
Date Tested	4/03/2016	4/03/2016
Time Tested	12:45	13:13
Location	Layer 5	Layer 5
	Grid N5	Grid L5
Field and Laboratory Data		
Depth of Test (mm)	225	225
Depth of Layer (mm)	250	250
Oversize Wet (%)	0	0
Field Moisture Content (%)	23.2	18.8
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.89	1.92
Field Dry Density (t/m³)	1.53	1.61
Peak Converted Wet Density* (t/m³)	1.98	2.01
Optimum Moisture Content (%)	23.5	19.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	98.0	97.0
Moisture Variation (%)	0.5 dry	0.5 dry
Hilf Density Ratio (%)	**95.5**	**95.5**
legend * adjusted for oversize material		

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00318
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W00318'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 8/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-01103	ABTM16S-01104	
Field Sample ID	87	88	
Client Sample ID	87	88	
Date Tested	7/03/2016	7/03/2016	
Time Tested	12:45	12:55	
Location	Layer 4	Layer 4	
	Grid L5	Grid N5	
Field and Laboratory Data			
Depth of Test (mm)	200	200	
Depth of Layer (mm)	225	225	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	12.7	22.0	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.07	1.98	
Field Dry Density (t/m³)	1.84	1.62	
Peak Converted Wet Density* (t/m³)	2.08	2.03	
Optimum Moisture Content (%)	13.5	21.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	93.0	102.0	
Moisture Variation (%)	1.0 dry	0.5 wet	
Hilf Density Ratio (%)	**99.5**	**97.5**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00330
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) PO Box 40 Kew VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 10/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction, +-3% OMC (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-01135	ABTM16S-01136	
Field Sample ID	00089	00090	
Date Tested	9/03/2016	9/03/2016	
Time Tested	12:45	13:15	
Location	Grid N5	Grid N5	
	Layer 4	Layer 4	
Field and Laboratory Data			
Depth of Test (mm)	225	225	
Depth of Layer (mm)	250	250	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	22.1	19.3	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.88	1.92	
Field Dry Density (t/m³)	1.54	1.61	
Peak Converted Wet Density* (t/m³)	1.97	2.01	
Optimum Moisture Content (%)	23.5	20.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	95.0	97.5	
Moisture Variation (%)	1.0 dry	0.5 dry	
Hilf Density Ratio (%)	**95.5**	**95.5**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00357
Issue No: 1

HILF Density Ratio Report

Client:	COFFEY GEOTECHNICS PTY LTD (ABBOTSFORD) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 16/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-01240	ABTM16S-01241	
Field Sample ID	00091	00092	
Date Tested	15/03/2016	15/03/2016	
Time Tested	13:00	13:30	
Location	Grid N5	Grid L5	
	Layer 5	Layer 5	
Field and Laboratory Data			
Depth of Test (mm)	225	225	
Depth of Layer (mm)	250	250	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	19.7	20.7	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.99	1.99	
Field Dry Density (t/m³)	1.66	1.65	
Peak Converted Wet Density* (t/m³)	2.03	2.04	
Optimum Moisture Content (%)	20.0	21.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	99.5	99.0	
Moisture Variation (%)	0.0	0.0	
Hilf Density Ratio (%)	**98.0**	**98.0**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00371
Issue No: 1

HILF Density Ratio Report

Client:	COFFEY GEOTECHNICS PTY LTD (ABBOTSFORD) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 18/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM DRY DENSITY RATIO OF 100% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-01281	ABTM16S-01282	
Field Sample ID	0093	0094	
Date Tested	17/03/2016	17/03/2016	
Time Tested	09:30	10:00	
Location	Layer 3	Layer 3	
	Grid O4	Grid O5	
	Bucket No.: 605	Bucket No.: 764	
Field and Laboratory Data			
Depth of Test (mm)	275	275	
Depth of Layer (mm)	300	300	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	23.7	19.5	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.95	1.95	
Field Dry Density (t/m³)	1.58	1.63	
Peak Converted Wet Density* (t/m³)	2.00	1.93	
Optimum Moisture Content (%)	26.5	22.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	89.5	87.0	
Moisture Variation (%)	2.5 dry	3.0 dry	
Hilf Density Ratio (%)	**98.0**	**101.0**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00389
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: G. Samaradiwakara
(Associate Engineering Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 22/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-01331	ABTM16S-01332				
Field Sample ID	95	96				
Date Tested	21/03/2016	21/03/2016				
Time Tested	11:00	11:30				
Location	layer 4	layer 4				
	grid O4	grid O5				
Field and Laboratory Data						
Depth of Test (mm)	275	275				
Depth of Layer (mm)	300	300				
Field Moisture Content (%)	18.7	19.1				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.85	1.94				
Field Dry Density (t/m³)	1.56	1.63				
Peak Converted Wet Density* (t/m³)	1.86	1.92				
Optimum Moisture Content (%)	22.5	21.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	82.5	89.5				
Moisture Variation (%)	4.0 dry	2.0 dry				
Hilf Density Ratio (%)	**99.5**	**101.0**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00393
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 23/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	

Sample Data

Sample ID	ABTM16S-01340	ABTM16S-01342	
Field Sample ID	0097	0098	
Date Tested	22/03/2016	22/03/2016	
Location	Retest of 95	Grid O4	
	Grid O4	Layer 5	
	Layer 4		
Field and Laboratory Data			
Depth of Test (mm)	275	275	
Depth of Layer (mm)	300	300	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	19.7	19.2	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.87	2.01	
Field Dry Density (t/m³)	1.56	1.69	
Peak Converted Wet Density* (t/m³)	1.91	2.00	
Optimum Moisture Content (%)	22.5	19.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	86.5	99.0	
Moisture Variation (%)	3.0 dry	0.0	
Hilf Density Ratio (%)	**98.0**	**101.0**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Testing Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 92 114 364 046
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W00425
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 24/03/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	Insitu

Sample Data

Sample ID	ABTM16S-01434	ABTM16S-01435	
Field Sample ID	0099	00100	
Client Sample ID	99	100	
Date Tested	23/03/2016	23/03/2016	
Time Tested	12:45	13:00	
Location	Grid O4	Grid O3	
	Layer 5	Layer 4	
Field and Laboratory Data			
Depth of Test (mm)	275	275	
Depth of Layer (mm)	300	300	
AS Sieve Size (mm)	19.0	19.0	
Field Moisture Content (%)	21.7	19.9	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.86	1.88	
Field Dry Density (t/m³)	1.53	1.57	
Peak Converted Wet Density* (t/m³)	1.92	1.91	
Optimum Moisture Content (%)	22.0	20.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	98.5	99.5	
Moisture Variation (%)	0.5 dry	0.0	
Hilf Density Ratio (%)	**97.0**	**98.5**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Abbotsford VIC 3067

ABN 55 139 460 521
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W01019
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 21/07/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-03484	ABTM16S-03485	
Field Sample ID	101	102	
Date Tested	20/07/2016	20/07/2016	
Location	Layer 4	Layer 3	
	Grid I5	Grid J5	
Soil Description	Silty Clay		
Field and Laboratory Data			
Depth of Test (mm)	100	100	
Depth of Layer (mm)	125	125	
AS Sieve Size (mm)	19.0	19.0	
Field Moisture Content (%)	23.1	18.9	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.13	1.94	
Field Dry Density (t/m³)	1.73	1.63	
Peak Converted Wet Density* (t/m³)	1.98	1.97	
Optimum Moisture Content (%)	23.0	20.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	100.0	95.5	
Moisture Variation (%)	0.0	1.0 dry	
Hilf Density Ratio (%)	**107.5**	**98.5**	
legend * adjusted for oversize material			

Comments

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Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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ABN 55 139 460 521
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Report No: HDR:ABTM16W01030

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Date of Issue:

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-03506	ABTM16S-03507	
Field Sample ID	103	104	
Client Sample ID	103	104	
Date Tested	21/07/2016	21/07/2016	
Field and Laboratory Data			
Depth of Test (mm)	175	175	
Depth of Layer (mm)	200	200	
AS Sieve Size (mm)	19.0	19.0	
Field Moisture Content (%)	17.8	21.6	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.00	1.94	
Field Dry Density (t/m³)	1.70	1.60	
Peak Converted Wet Density* (t/m³)	2.00	1.99	
Optimum Moisture Content (%)	18.5	23.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	97.5	92.5	
Moisture Variation (%)	0.5 dry	1.5 dry	
Hilf Density Ratio (%)	**100.0**	**97.5**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W01043
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 27/07/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site Stockpile
Material:	General Fill

Sample Data

Sample ID	ABTM16S-03563	ABTM16S-03564	ABTM16S-03565
Field Sample ID	105	106	107
Date Tested	26/07/2016	26/07/2016	26/07/2016
Location	Grid J5	Grid J5	Grid K5
	Layer 4	Layer 5	Layer 5
Field and Laboratory Data			
Depth of Test (mm)	125	275	275
Depth of Layer (mm)	150	300	300
AS Sieve Size (mm)	19.0	19.0	19.0
Field Moisture Content (%)	25.5	15.8	26.2
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.97	1.95	2.05
Field Dry Density (t/m³)	1.57	1.68	1.62
Peak Converted Wet Density* (t/m³)	1.90	1.91	1.97
Optimum Moisture Content (%)	29.5	18.5	29.0
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	86.0	84.5	90.0
Moisture Variation (%)	3.5 dry	3.0 dry	2.5 dry
Hilf Density Ratio (%)	**103.5**	**102.5**	**104.0**
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W01045
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Ketankumar Patel
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 28/07/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	
Material:	

Sample Data

Sample ID	ABTM16S-03568	ABTM16S-03569	ABTM16S-03570
Field Sample ID	108	109	110
Date Tested	27/07/2016	27/07/2016	27/07/2016
Location	Grid J6	Grid K6	Retest of 105
	Layer 3	Layer 3	Grid J5
			Layer 4
Field and Laboratory Data			
Depth of Test (mm)	275	275	225
Depth of Layer (mm)	300	300	250
AS Sieve Size (mm)	19.0	19.0	19.0
Oversize Wet (%)	0	2	0
Field Moisture Content (%)	12.7	20.3	20.5
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.99	2.10	2.06
Field Dry Density (t/m³)	1.77	1.74	1.71
Peak Converted Wet Density* (t/m³)	2.23	2.00	1.96
Optimum Moisture Content (%)	12.5	22.0	22.5
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	101.5	93.0	91.5
Moisture Variation (%)	0.0	1.5 dry	2.0 dry
Hilf Density Ratio (%)	**89.0**	**105.0**	**105.0**
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W01051
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 29/07/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	
Material:	

Sample Data

Sample ID	ABTM16S-03583		
Field Sample ID	111		
Date Tested	28/07/2016		
Location	Retest of 108		
	Grid J6		
	Layer 3		

Field and Laboratory Data

Depth of Test (mm)	275		
Depth of Layer (mm)	300		
AS Sieve Size (mm)	19.0		
Field Moisture Content (%)	16.8		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.96		
Field Dry Density (t/m³)	1.68		
Peak Converted Wet Density* (t/m³)	2.02		
Optimum Moisture Content (%)	15.0		
Compactive Effort	Standard		
Moisture Ratio (%)	111.0		
Moisture Variation (%)	1.5 wet		
Hilf Density Ratio (%)	**97.5**		
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
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Report No: HDR:ABTM16W01178
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 17/08/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-03965	ABTM16S-03966	
Field Sample ID	00145	00146	
Client Sample ID	112	113	
Date Tested	16/08/2016	16/08/2016	
Time Tested	14:25	14:30	
Location	Grid N4	Grid O4	
	Layer 4	Layer 4	
Field and Laboratory Data			
Depth of Test (mm)	225	225	
Depth of Layer (mm)	250	250	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	25.1	27.4	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.01	2.00	
Field Dry Density (t/m³)	1.61	1.57	
Peak Converted Wet Density* (t/m³)	1.98	1.99	
Optimum Moisture Content (%)	25.0	26.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	101.0	106.0	
Moisture Variation (%)	0.0	1.5 wet	
Hilf Density Ratio (%)	**101.5**	**100.5**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
Phone: +61 3 8413 6900
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Report No: HDR:ABTM16W01190
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	SPIIRE/AMEX CORPORATION
Project No.:	INFOABTM00385AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 18/08/2016

Sample Details

Location:	Little Green Estate, Tarneit, Vic
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	Submitted by client
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-03993	ABTM16S-03994	
Field Sample ID	00201	00202	
Client Sample ID	114	115	
Date Tested	17/08/2016	17/08/2016	
Time Tested	11:55	12:10	
Location	Grid N 2	Grid O2	
	Layer 6	Layer 6	
Field and Laboratory Data			
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 Moisture Content (%)	18.7	18.8	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.82	2.06	
Field Dry Density (t/m³)	1.53	1.73	
Peak Converted Wet Density* (t/m³)	2.04	2.06	
Optimum Moisture Content (%)	18.5	19.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	101.0	99.5	
Moisture Variation (%)	0.0	0.0	
Hilf Density Ratio (%)	**89.0**	**100.0**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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ABN 55 139 460 521
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Report No: HDR:ABTM16W01187
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	SPIIRE/AMEX CORPORATION
Project No.:	INFOABTM00385AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 18/08/2016

Sample Details

Location:	Little Green Estate, Tarneit, Vic
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	Submitted by client
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-03989	ABTM16S-03990	
Field Sample ID	00199	00200	
Client Sample ID	116	117	
Date Tested	17/08/2016	17/08/2016	
Time Tested	13:50	14:15	
Location	Grid O 4	Grid O 3	
	Layer 1	Layer 1	
Field and Laboratory Data			
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 Moisture Content (%)	15.0	22.7	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	1.98	1.97	
Field Dry Density (t/m³)	1.72	1.60	
Peak Converted Wet Density* (t/m³)	2.02	1.98	
Optimum Moisture Content (%)	15.5	25.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	96.5	90.0	
Moisture Variation (%)	0.5 dry	2.5 dry	
Hilf Density Ratio (%)	**98.0**	**99.5**	
legend * adjusted for oversize material			

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Report No: HDR:ABTM16W01201
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01201'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04015	ABTM16S-04016	ABTM16S-04017	ABTM16S-04018	ABTM16S-04019	ABTM16S-04020
Field Sample ID	118	119	120	121	122	123
Date Tested	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Time Tested	07:45	08:00	08:15	08:30	08:45	11:55
Location	O 4	O 3	O 5	N 2	O 2	N 2
	Layer 4	Layer 5	Layer 5	Layer 7	Layer 7	retest of 121
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	175
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	0	0	0	0	0
Field Moisture Content (%)	16.7	22.5	20.4	18.0	19.0	20.9
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.96	1.92	1.94	2.03	1.98	1.96
Field Dry Density (t/m³)	1.68	1.57	1.61	1.72	1.66	1.62
Peak Converted Wet Density* (t/m³)	2.02	2.00	2.04	2.01	1.98	1.96
Optimum Moisture Content (%)	17.5	23.0	21.0	18.0	21.0	23.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	96.5	99.0	98.0	98.5	91.5	91.5
Moisture Variation (%)	0.5 dry	0.5 dry	0.5 dry	0.5 dry	1.5 dry	2.0 dry
Hilf Density Ratio (%)	**97.0**	**96.0**	**95.0**	**101.0**	**99.5**	**100.0**
legend * adjusted for oversize material						

Comments

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Report No: HDR:ABTM16W01201
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01201'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04021	ABTM16S-04022	ABTM16S-04023	ABTM16S-04024	ABTM16S-04025
Field Sample ID	124	125	126	127	128
Date Tested	18/08/2016	18/08/2016	18/08/2016	18/08/2016	18/08/2016
Time Tested	02:00	02:15	02:30	02:50	03:10
Location	O 3	O 4	O 5	N 2	O 2
	Layer 6	Layer 5	Layer 6	Layer 8	Layer 8
Field and Laboratory Data					
Depth of Test (mm)	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0
Field Moisture Content (%)	23.3	25.1	21.7	18.7	17.9
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.96	1.94	1.92	1.93	1.90
Field Dry Density (t/m³)	1.59	1.55	1.58	1.63	1.61
Peak Converted Wet Density* (t/m³)	2.02	2.01	2.03	1.93	1.94
Optimum Moisture Content (%)	23.0	24.5	22.0	19.5	22.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	101.0	101.5	98.0	95.0	80.5
Moisture Variation (%)	0.0	0.5 wet	0.5 dry	1.0 dry	4.0 dry
Hilf Density Ratio (%)	**97.0**	**96.5**	**95.0**	**100.0**	**98.0**
legend * adjusted for oversize material					

Comments

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Report No: HDR:ABTM16W01225
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

K.B. Patel

Approved Signatory: Krushik Patel
(Senior Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 24/08/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:
Source: On Site
Material: General Fill

Sample Data

Sample ID	ABTM16S-04047	ABTM16S-04070	ABTM16S-04071	ABTM16S-04072	ABTM16S-04073
Field Sample ID	00158	00159	00160	00161	00162
Client Sample ID	129	130	131	132	133
Date Tested	23/08/2016	23/08/2016	23/08/2016	23/08/2016	23/08/2016
Time Tested	01:15	01:30	01:40	01:55	02:10
Location	O5 West	O4 West	O3 West	O3 East	O4 East
	Layer 7	Layer 6	Layer 7	Layer 4	Layer 4
Field and Laboratory Data					
Depth of Test (mm)	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	37.5	19.0	19.0
Oversize Wet (%)			20		
Field Moisture Content (%)	24.6	17.7	15.9	26.7	24.9
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.97	1.92	2.00	1.90	1.92
Field Dry Density (t/m³)	1.58	1.63	1.73	1.50	1.53
Peak Converted Wet Density* (t/m³)	1.85	2.02	2.04	1.94	1.88
Optimum Moisture Content (%)	27.5	18.0	16.0	25.0	28.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	89.0	99.5	100.5	106.5	88.5
Moisture Variation (%)	3.0 dry	0.0	0.0	1.5 wet	3.0 dry
Hilf Density Ratio (%)	**106.5**	**95.0**	**98.0**	**98.0**	**102.0**
legend * adjusted for oversize material					

Comments

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Coffey Corporate Services Pty Ltd
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Report No: HDR:ABTM16W01243
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01243'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04133	ABTM16S-04134	ABTM16S-04135	ABTM16S-04136	ABTM16S-04137	ABTM16S-04138
Field Sample ID	00172	00173	00174	00175	00176	00177
Client Sample ID	134	135	136	137	138	139
Date Tested	24/08/2016	24/08/2016	24/08/2016	24/08/2016	24/08/2016	24/08/2016
Time Tested	09:50	10:05	10:30	10:45	11:10	11:30
Location	N3 North	N3 South	N2	O3 East	O4 East	O5 East
	Layer 5	Layer 5	Layer 8	Layer 5	Layer 5	Layer 5
			Retest 128			
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
Oversize Wet (%)	0	0	0	0	0	0
Field Moisture Content (%)	23.2	15.2	26.7	26.9	26.3	22.4
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	2.02	2.04	1.85	1.88	1.96	1.84
Field Dry Density (t/m³)	1.64	1.77	1.46	1.48	1.55	1.50
Peak Converted Wet Density* (t/m³)	2.05	2.09	1.97	2.00	1.91	1.97
Optimum Moisture Content (%)	22.0	15.0	25.0	26.5	28.5	23.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	104.5	101.0	106.0	101.5	92.5	98.0
Moisture Variation (%)	1.0 wet	0.0	1.5 wet	0.5 wet	2.0 dry	0.5 dry
Hilf Density Ratio (%)	**98.5**	**98.0**	**94.0**	**94.0**	**102.5**	**93.5**
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Report No: HDR:ABTM16W01252
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01252'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04164	ABTM16S-04165	ABTM16S-04166			
Field Sample ID	00181	00182	00183			
Client Sample ID	143	144	145			
Date Tested	25/08/2016	25/08/2016	25/08/2016			
Time Tested	09:00	10:00	10:45			
Location	O2	N3 South	N3 North			
	Layer 10	Layer 6	Layer 6			
Field and Laboratory Data						
Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
Oversize Wet (%)	0	3	9			
Field Moisture Content (%)	30.5	25.3	17.0			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.88	1.99	1.92			
Field Dry Density (t/m³)	1.44	1.58	1.64			
Peak Converted Wet Density* (t/m³)	1.87	1.89	1.95			
Optimum Moisture Content (%)	33.5	27.5	19.5			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	91.0	92.0	87.0			
Moisture Variation (%)	2.5 dry	2.0 dry	2.5 dry			
Hilf Density Ratio (%)	**100.5**	**105.0**	**99.0**			
legend * adjusted for oversize material						

Comments

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Report No: HDR:ABTM16W01275
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01275'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

NATA
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Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04204	ABTM16S-04205	ABTM16S-04206	ABTM16S-04207	ABTM16S-04218	ABTM16S-04219
Field Sample ID	00184	00185	00187	00188	00189	00190
Client Sample ID	146	147	148	149	150	151
Date Tested	26/08/2016	26/08/2016	26/08/2016	26/08/2016	26/08/2016	26/08/2016
Time Tested	08:30	08:45	09:10	12:45	15:15	15:30
Location	O3 East	O5 East	N2	N2	J6	I6
	Retest 137	Retest 139	Retest 136	Layer 10	Layer 1	Layer1
	Layer 5	Layer 5	Layer 9			
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
Oversize Wet (%)	0	0	0	0	0	0
Field Moisture Content (%)	23.9	19.8	19.8	23.4	22.3	20.6
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.98	1.93	2.06	1.99	1.98	1.97
Field Dry Density (t/m³)	1.60	1.61	1.72	1.62	1.62	1.64
Peak Converted Wet Density* (t/m³)	1.87	1.91	1.96	1.89	1.90	1.96
Optimum Moisture Content (%)	25.0	22.5	22.0	24.0	25.0	22.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	96.5	88.0	89.0	97.0	89.0	90.5
Moisture Variation (%)	1.0 dry	2.5 dry	2.5 dry	1.0 dry	2.5 dry	2.0 dry
Hilf Density Ratio (%)	**106.0**	**101.0**	**104.5**	**105.5**	**104.0**	**101.0**
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

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Report No: HDR:ABTM16W01280
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01280'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04225	ABTM16S-04226	ABTM16S-04227	ABTM16S-04228		
Field Sample ID	00191	00192	00193	00194		
Client Sample ID	152	153	154	155		
Date Tested	29/08/2016	29/08/2016	29/08/2016	29/08/2016		
Time Tested	09:30	14:15	15:10	15:30		
Location	K6	I6	J6	I6		
	Layer 1	Layer 2	Layer 3	Layer 3		
Field and Laboratory Data						
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	10	8	13		
Field Moisture Content (%)	21.3	19.8	18.3	17.3		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.88	1.98	1.95	2.03		
Field Dry Density (t/m³)	1.55	1.65	1.65	1.73		
Peak Converted Wet Density* (t/m³)	1.82	1.93	1.99	2.01		
Optimum Moisture Content (%)	26.5	23.5	21.0	18.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	81.0	85.0	87.0	95.5		
Moisture Variation (%)	5.0 dry	3.0 dry	2.5 dry	0.5 dry		
Hilf Density Ratio (%)	**103.5**	**103.0**	**98.0**	**101.0**		
legend * adjusted for oversize material						

Comments

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Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
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Report No: HDR:ABTM16W01283
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01283'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: On Site
Material: General Fill

Sample Data

Sample ID	ABTM16S-04235	ABTM16S-04236	ABTM16S-04237	ABTM16S-04238	ABTM16S-04239	ABTM16S-04240
Field Sample ID	00195	00196	00197	00198	00199	00200
Client Sample ID	156	157	158	159	160	161
Date Tested	30/08/2016	30/08/2016	30/08/2016	30/08/2016	30/08/2016	30/08/2016
Time Tested	08:40	08:55	09:10	10:45	11:00	13:45
Location	N4	N3 North	N3 South	I6	J6	K6
	Layer 4	Layer 6	Layer 6	Layer 4	Layer 4	Retest 152
						Layer 1
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	175
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	4	0	10	5	0
Field Moisture Content (%)	20.3	21.4	16.2	20.6	22.1	23.1
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.96	1.98	1.99	1.89	1.91	2.05
Field Dry Density (t/m³)	1.63	1.63	1.71	1.57	1.56	1.66
Peak Converted Wet Density* (t/m³)	1.95	1.98	1.97	1.91	2.03	2.00
Optimum Moisture Content (%)	23.0	24.0	19.0	24.0	21.5	23.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	87.5	88.5	85.5	86.0	102.5	99.0
Moisture Variation (%)	3.0 dry	2.5 dry	2.5 dry	3.0 dry	0.5 wet	0.0
Hilf Density Ratio (%)	**100.5**	**100.0**	**101.0**	**99.0**	**94.0**	**102.5**
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Report No: HDR:ABTM16W01283
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01283'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04241	ABTM16S-04274				
Field Sample ID	00201	00202				
Client Sample ID	162	163				
Date Tested	30/08/2016	30/08/2016				
Time Tested	14:30	14:45				
Location	J6	I6				
	Layer 5	Layer 5				
Field and Laboratory Data						
Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	14	4				
Field Moisture Content (%)	23.5	17.2				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.01	1.93				
Field Dry Density (t/m³)	1.63	1.65				
Peak Converted Wet Density* (t/m³)	2.03	1.96				
Optimum Moisture Content (%)	26.0	21.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	90.0	82.5				
Moisture Variation (%)	2.0 dry	3.5 dry				
Hilf Density Ratio (%)	**99.5**	**98.5**				
legend * adjusted for oversize material						

Comments

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ABN 55 139 460 521
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Report No: HDR:ABTM16W01299
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01299'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04303	ABTM16S-04304	ABTM16S-04305	ABTM16S-04306		
Field Sample ID	00204	00205	00206	00207		
Client Sample ID	164	165	166	167		
Date Tested	31/08/2016	31/08/2016	31/08/2016	31/08/2016		
Time Tested	08:15	08:45	09:10	09:30		
Location	I6	J6	K6	K6		
	Layer 6	Layer 6	Resample of 163	Layer 2		
			Layer 1			
Field and Laboratory Data						
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	8	11	6		
Field Moisture Content (%)	20.7	21.5	26.6	17.8		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.88	1.87	1.91	1.89		
Field Dry Density (t/m³)	1.56	1.54	1.50	1.61		
Peak Converted Wet Density* (t/m³)	1.93	1.97	2.01	1.98		
Optimum Moisture Content (%)	23.0	22.0	26.5	20.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	90.5	98.5	100.5	90.0		
Moisture Variation (%)	2.0 dry	0.5 dry	0.0	2.0 dry		
Hilf Density Ratio (%)	**98.0**	**95.0**	**95.0**	**96.0**		
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

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Report No: HDR:ABTM16W01316
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01316'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04405	ABTM16S-04406	ABTM16S-04407	ABTM16S-04408		
Field Sample ID	00211	00212	00213	00214		
Client Sample ID	168	169	170	171		
Date Tested	1/09/2016	1/09/2016	1/09/2016	1/09/2016		
Time Tested	07:45	08:00	08:15	08:30		
Location	I6	J6	J6	K6		
	Layer 7	Retest of 161	Layer 7	Layer 3		
		Layer 4				
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	14.8	11.9	23.4	24.6		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	2.06	2.00	1.98	1.96		
Field Dry Density (t/m³)	1.79	1.79	1.61	1.57		
Peak Converted Wet Density* (t/m³)	1.92	1.91	2.02	1.97		
Optimum Moisture Content (%)	19.0	12.0	23.0	26.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	77.5	98.0	102.5	94.0		
Moisture Variation (%)	4.0 dry	0.0	0.5 wet	1.5 dry		
Hilf Density Ratio (%)	**107.0**	**105.0**	**98.5**	**99.5**		
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Report No: HDR:ABTM16W01340
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01340'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04452	ABTM16S-04453	ABTM16S-04454	ABTM16S-04455		
Field Sample ID	00215	00216	00217	00218		
Client Sample ID	172	173	174	175		
Date Tested	6/09/2016	6/09/2016	6/09/2016	6/09/2016		
Time Tested	10:45	12:50	13:05	13:30		
Location	I6	K6	J6	I6		
	Retest #168	Layer 4	Layer 8	Layer 8		
	Layer 7					
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
Oversize Wet (%)	2	11	0	0		
Field Moisture Content (%)	20.6	24.3	17.2	17.9		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	2.06	2.00	2.01	1.99		
Field Dry Density (t/m³)	1.71	1.61	1.71	1.69		
Peak Converted Wet Density* (t/m³)	1.97	1.97	1.94	1.94		
Optimum Moisture Content (%)	23.0	26.5	21.5	21.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	90.0	92.5	80.0	84.5		
Moisture Variation (%)	2.0 dry	1.5 dry	4.0 dry	3.0 dry		
Hilf Density Ratio (%)	**105.0**	**101.5**	**103.5**	**102.5**		
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Report No: HDR:ABTM16W01367
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01367'.

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04514	ABTM16S-04517				
Field Sample ID	00221	00224				
Client Sample ID	176	177				
Date Tested	8/09/2016	8/09/2016				
Time Tested	14:30	15:15				
Location	J6 Retest of #174	M6 East				
	Layer 8	Layer 1				
Field and Laboratory Data						
Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	18.1	21.7				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.05	1.93				
Field Dry Density (t/m³)	1.74	1.59				
Peak Converted Wet Density* (t/m³)	2.06	1.91				
Optimum Moisture Content (%)	18.0	22.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	99.0	97.5				
Moisture Variation (%)	0.0	0.5 dry				
Hilf Density Ratio (%)	**99.5**	**101.0**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Abbotsford VIC 3067

ABN 55 139 460 521
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Report No: HDR:ABTM16W01418
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04623	ABTM16S-04624				
Field Sample ID	178	179				
Date Tested	19/09/2016	19/09/2016				
Time Tested	14:30	15:00				
Location	L6	M6				
	Layer 1	Layer 1				
Field and Laboratory Data						
Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	4	7				
Field Moisture Content (%)	26.5	23.8				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.96	1.97				
Field Dry Density (t/m³)	1.55	1.59				
Peak Converted Wet Density* (t/m³)	1.95	1.98				
Optimum Moisture Content (%)	25.5	23.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	103.5	103.5				
Moisture Variation (%)	1.0 wet	0.5 wet				
Hilf Density Ratio (%)	**100.5**	**99.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Abbotsford VIC 3067

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Report No: HDR:ABTM16W01420
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 21/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04627	ABTM16S-04628				
Field Sample ID	00226	00227				
Client Sample ID	180	181				
Date Tested	20/09/2016	20/09/2016				
Time Tested	14:20	15:00				
Location	N6	O6				
	Layer 1	Layer 1				
Field and Laboratory Data						
Depth of Test (mm)	175	175				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	7	6				
Field Moisture Content (%)	18.7	18.2				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	1.93	1.90				
Field Dry Density (t/m³)	1.63	1.61				
Peak Converted Wet Density* (t/m³)	1.97	1.99				
Optimum Moisture Content (%)	21.5	20.0				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	87.0	90.5				
Moisture Variation (%)	2.5 dry	2.0 dry				
Hilf Density Ratio (%)	**98.5**	**95.5**				
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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ABN 55 139 460 521
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Report No: HDR:ABTM16W01427
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 23/09/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: On Site
Material: General Fill

Sample Data

Sample ID	ABTM16S-04652	ABTM16S-04653	ABTM16S-04654	ABTM16S-04655	ABTM16S-04656
Field Sample ID	00230	00231	00232	00233	00234
Client Sample ID	182	183	184	185	186
Date Tested	22/09/2016	22/09/2016	22/09/2016	22/09/2016	22/09/2016
Time Tested	11:50	12:30	12:45	14:15	14:30
Location	L5 South	M4 North	O6	L6	M6
	Layer 2	Layer 5	Layer 2	Layer 2	Layer 2
Field and Laboratory Data					
Depth of Test (mm)	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	4	9	0
Field Moisture Content (%)	23.5	18.8	16.2	22.4	20.3
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	2.03	2.03	1.93	1.94	2.00
Field Dry Density (t/m³)	1.64	1.71	1.66	1.58	1.66
Peak Converted Wet Density* (t/m³)	2.01	2.03	1.98	2.02	1.91
Optimum Moisture Content (%)	23.0	17.5	18.0	22.0	22.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	102.5	108.0	90.0	102.0	91.0
Moisture Variation (%)	0.5 wet	1.5 wet	2.0 dry	0.5 wet	2.0 dry
Hilf Density Ratio (%)	**101.0**	**99.5**	**97.0**	**95.5**	**105.0**
legend * adjusted for oversize material					

Comments

coffey
A TETRA TECH COMPANY

Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
Phone: +61 3 8413 6900
Fax: +61 3 8413 6999

Report No: HDR:ABTM16W01438
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 26/09/2016

Sample Details

Location: Little Green, VIC
Client Request ID:
Specification Requirements: MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: On Site
Material: General Fill

Sample Data

Sample ID	ABTM16S-04673	ABTM16S-04674	ABTM16S-04675	ABTM16S-04676	ABTM16S-04677
Field Sample ID	00236	00237	00238	00239	00240
Client Sample ID	187	188	189	190	191
Date Tested	23/09/2016	23/09/2016	23/09/2016	23/09/2016	23/09/2016
Time Tested	12:15	12:30	12:45	13:00	13:15
Location	L5 South	M4 North	O6	O6	N6
	Layer 3	Layer 6	Layer 4	Layer 3	Layer 2
Field and Laboratory Data					
Depth of Test (mm)	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	6	3	0	0	0
Field Moisture Content (%)	23.4	23.5	21.4	19.8	16.3
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.93	1.96	2.02	2.00	2.05
Field Dry Density (t/m³)	1.56	1.59	1.66	1.67	1.76
Peak Converted Wet Density* (t/m³)	1.95	1.97	1.93	1.94	1.93
Optimum Moisture Content (%)	22.5	23.5	23.5	20.5	19.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	104.0	99.5	90.0	98.0	84.5
Moisture Variation (%)	1.0 wet	0.0	2.0 dry	0.5 dry	3.0 dry
Hilf Density Ratio (%)	**98.5**	**99.5**	**104.5**	**103.0**	**106.5**
legend * adjusted for oversize material					

Comments

coffey
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Abbotsford, Melbourne Laboratory

Coffey Corporate Services Pty Ltd
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Abbotsford VIC 3067

ABN 55 139 460 521
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W01449
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 27/09/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04709	ABTM16S-04710	ABTM16S-04711	ABTM16S-04712		
Field Sample ID	00241	00242	00243	00244		
Client Sample ID	192	193	194	195		
Date Tested	26/09/2016	26/09/2016	26/09/2016	26/09/2016		
Time Tested	14:20	14:35	14:50	15:05		
Location	N6	M6	L6	O6		
	Layer 3	Layer 3	Layer 3	Layer 5		
Field and Laboratory Data						
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 Moisture Content (%)	22.0	21.8	20.4	22.0		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.98	1.94	2.02	1.91		
Field Dry Density (t/m³)	1.62	1.59	1.68	1.56		
Peak Converted Wet Density* (t/m³)	1.99	2.08	1.95	1.98		
Optimum Moisture Content (%)	22.0	19.5	21.0	22.5		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	99.0	112.5	96.0	98.0		
Moisture Variation (%)	0.0	2.5 wet	1.0 dry	0.5 dry		
Hilf Density Ratio (%)	**99.0**	**93.5**	**103.5**	**96.0**		
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Services Australia Pty Ltd
3G Marine Parade
Abbotsford VIC 3067

ABN 55 139 460 521
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Fax: +61 3 8413 6999

Report No: HDR:ABTM16W01538
Issue No: 1

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

Accredited for compliance with ISO/IEC 17025 - Testing.

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

Approved Signatory: Shaun Price
(Senior Geotechnical Technician)
NATA Accredited Laboratory Number:431
Date of Issue: 23/03/2017

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04909	ABTM16S-04910	ABTM16S-04911			
Field Sample ID	00255	00256	00257			
Client Sample ID	196	197	198			
Date Tested	12/10/2016	12/10/2016	12/10/2016			
Time Tested	08:15	08:30	08:45			
Location	N6	M6	L6			
	Layer 4	Layer 4	Layer 4			
Field and Laboratory Data						
Depth of Test (mm)	175	175	175			
Depth of Layer (mm)	200	200	200			
Oversize Wet (%)	0	0	0			
Field Moisture Content (%)	22.2	23.6	19.0			
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1			
Field Wet Density (t/m³)	1.98	1.98	1.97			
Field Dry Density (t/m³)	1.62	1.60	1.65			
Peak Converted Wet Density* (t/m³)	1.92	1.88	1.83			
Optimum Moisture Content (%)	24.5	26.5	25.0			
Compactive Effort	Standard	Standard	Standard			
Moisture Ratio (%)	90.0	89.5	76.5			
Moisture Variation (%)	2.5 dry	2.5 dry	5.5 dry			
Hilf Density Ratio (%)	**103.0**	**105.5**	**108.0**			
legend * adjusted for oversize material						

Comments

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Abbotsford, Melbourne Laboratory

Coffey Services Australia Pty Ltd
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ABN 55 139 460 521
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Report No: HDR:ABTM16W01541
Issue No: 2
This report replaces all previous issues of report no 'HDR:ABTM16W01541'.

HILF Density Ratio Report

Client:	Coffey Geotechnics Pty Ltd (Abbotsford) Level 1, 436 Johnston Street Abbotsford VIC 3101
Principal:	
Project No.:	INFOABTM00532AA
Project Name:	GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.:	**TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 18/10/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04922	ABTM16S-04923	ABTM16S-04924	ABTM16S-04925	ABTM16S-04926	ABTM16S-04927
Field Sample ID	00258	00259	00260	00261	00262	00263
Client Sample ID	199	200	201	202	203	204
Date Tested	13/10/2016	13/10/2016	13/10/2016	13/10/2016	13/10/2016	13/10/2016
Time Tested	09:15	09:30	09:45	15:00	15:15	15:30
Location	N5	M5	L5	M6-East	M6-West	L6
	Layer 6	Layer 6	Layer 6	Layer 5	Layer 3	Layer 5
					Retest of #193	
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	175
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	0	0	0	0	0
Field Moisture Content (%)	20.3	20.9	21.6	22.0	21.4	21.2
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.98	1.97	1.98	2.01	2.01	1.98
Field Dry Density (t/m³)	1.64	1.63	1.63	1.65	1.65	1.64
Peak Converted Wet Density* (t/m³)	2.00	1.93	1.92	1.86	1.88	1.83
Optimum Moisture Content (%)	22.5	23.0	24.0	25.0	24.5	26.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	89.5	90.0	90.5	88.0	87.5	82.5
Moisture Variation (%)	2.5 dry	2.0 dry	2.0 dry	3.0 dry	3.0 dry	4.5 dry
Hilf Density Ratio (%)	**98.5**	**102.5**	**103.0**	**108.5**	**107.0**	**108.0**
legend * adjusted for oversize material						

Comments

Abbotsford, Melbourne Laboratory

Coffey Services Australia Pty Ltd
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Abbotsford VIC 3067

ABN 55 139 460 521
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Report No: HDR:ABTM16W01543
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 18/10/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04934	ABTM16S-04935	ABTM16S-04936	ABTM16S-04937		
Field Sample ID	00264	00265	00266	00267		
Client Sample ID	205	206	207	208		
Date Tested	14/10/2016	14/10/2016	14/10/2016	14/10/2016		
Time Tested	07:30	07:45	08:00	14:30		
Location	N5	M5	L5	N6 South		
	Layer 7	Layer 7	Layer 7	Layer 7		
Field and Laboratory Data						
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 Moisture Content (%)	23.1	24.3	27.3	22.7		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.97	2.04	1.99	2.01		
Field Dry Density (t/m³)	1.60	1.64	1.56	1.64		
Peak Converted Wet Density* (t/m³)	1.89	1.94	1.87	1.93		
Optimum Moisture Content (%)	25.5	27.0	30.0	25.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	91.0	90.0	91.5	90.0		
Moisture Variation (%)	2.0 dry	2.5 dry	2.5 dry	2.5 dry		
Hilf Density Ratio (%)	**104.0**	**105.0**	**106.0**	**104.5**		
legend * adjusted for oversize material						

Comments

coffey
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Abbotsford, Melbourne Laboratory

Coffey Services Australia Pty Ltd
3G Marine Parade
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ABN 55 139 460 521
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Report No: HDR:ABTM16W01557
Issue No: 1

HILF Density Ratio Report

Client: Coffey Geotechnics Pty Ltd (Abbotsford)
Level 1, 436 Johnston Street
Abbotsford VIC 3101

Principal:
Project No.: INFOABTM00532AA
Project Name: GEOTABTF09878AA - Little Green Estate - Level 1 - Stage 4
Lot No.: **TRN:**

NATA
WORLD RECOGNISED ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

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

Approved Signatory: Marko Tomasevic
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 19/10/2016

Sample Details

Location:	Little Green, VIC
Client Request ID:	
Specification Requirements:	MINIMUM HILF DENSITY RATIO OF 95% of Standard Compaction (as advised by client)
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.5.7.1, AS 1289.2.1.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	On Site
Material:	General Fill

Sample Data

Sample ID	ABTM16S-04967	ABTM16S-04968				
Field Sample ID	00270	00271				
Client Sample ID	209	210				
Date Tested	18/10/2016	18/10/2016				
Time Tested	09:30	09:45				
Location	L5 North-East	L5 South-East				
	Layer 7	Layer 7				
Field and Laboratory Data						
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 Moisture Content (%)	20.7	17.5				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1				
Field Wet Density (t/m³)	2.09	2.04				
Field Dry Density (t/m³)	1.73	1.74				
Peak Converted Wet Density* (t/m³)	2.08	2.03				
Optimum Moisture Content (%)	21.0	17.5				
Compactive Effort	Standard	Standard				
Moisture Ratio (%)	98.0	100.5				
Moisture Variation (%)	0.5 dry	0.0				
Hilf Density Ratio (%)	**100.5**	**101.0**				
legend * adjusted for oversize material						

Comments

COMPACTION ASSESSMENT

BY NUCLEAR GAUGE METHOD

Terrafirma Laboratories - Deer Park Laboratory
Factory 6 / 22-24 Westwood Drive, Deer Park Phone No: 8348 5596

report No 9227-1R
date of issue 24-Oct-2016

Client	Coffey Services Australia Pty Ltd
Client address	436 Johnston St, Abbotsford, 3067
Project	GEOTABTF09878AA Little Green Estate
Location	Tarniet

Feature	Lot Fill
Layer thickness (mm)	200

tested by	JN, WF
time	9.15 AM
date	21-Oct-2016
checked by	RS

Field density test procedure AS1289.2.1.1 and 5.8.1 by Coffey, Coffey Corporate Accreditation # 431 Site Accreditation # 1151

Test No		**210**	**211**	**212**	**213**		
location Lot No/ Line No		N5	N5	O6	O6		
Sampling procedures AS1289.1.1,1.2.1-Clause 6.4(b)							
depth from F.S.L.	m	Layer 9	Layer 9	Layer 6	Layer 6		
measurement depth	mm	175	175	175	175		
field wet density	t/m^3	2.01	1.97	1.98	1.98		
field dry density	t/m3	1.70	1.63	1.63	1.63		
field moisture content	%	18.4	20.7	21.3	21.3		
laboratory compaction procedure AS1289 5.7.1							
compactive effort		standard	standard	standard	standard		
oversize material retained on AS sieve	mm	19.0	19.0	19.0	19.0		
percent of oversize material	wet	4	4	6	3		
peak converted wet density	t/m^3	-	-	-	-		
adjusted peak converted wet density	t/m^3	2.05	1.98	2.04	2.01		
moisture variation from OMC (-dry,+wet)%		0.0	-1.0	0.5	-0.5		
Moisture ratio	**%**	**100.0**	**95.5**	**102.5**	**97.0**		
Hilf density ratio (R_{HD})	**%**	**98.0**	**99.5**	**96.5**	**98.5**		

material description

Silty CLAY

NATA ACCREDITED FOR TECHNICAL COMPETENCE

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

Approved Signature
R Schembri

COMPACTION ASSESSMENT

BY NUCLEAR GAUGE METHOD

Terrafirma Laboratories - Deer Park Laboratory
Factory 6 / 22-24 Westwood Drive, Deer Park Phone No: 8348 5596

report No 9227-2
date of issue 27-Feb-2017

Client	Coffey Services Australia Pty Ltd
Client address	436 Johnston St, Abbotsford, 3067
Project	GEOTABTF09878AA Little Green Estate
Location	Tarniet

Feature	Block Fill
Layer thickness (mm)	300

tested by	WH
time	ALL DAY
date	22-Feb-2017
checked by	RS

Field density test procedure AS1289.2.1.1 and 5.8.1 by Coffey, Coffey Corporate Accreditation # 431, Site Accreditation # 1151

Test No		**RW1**	**RW2**	**RW3**	**RW4**		
location		05 North	05 South	4	3		
Sampling procedures AS1289.1.1,1.2.1-Clause 6.4(b)							
depth from F.S.L.	m	Layer 1	Layer 1	Layer 1	Layer 1		
measurement depth	mm	275	275	275	275		
field wet density	t/m^3	1.92	1.92	1.93	1.92		
field dry density	t/m3	1.63	1.60	1.60	1.52		
field moisture content	%	17.5	19.6	20.7	26.7		
laboratory compaction procedure AS1289 5.7.1							
compactive effort		standard	standard	standard	standard		
oversize material retained on AS sieve	mm	19.0	19.0	19.0	19.0		
percent of oversize material	wet	4	6	0	4		
peak converted wet density	t/m^3	-	-	1.95	-		
adjusted peak converted wet density	t/m^3	1.98	2.00	-	1.92		
moisture variation from OMC (-dry,+wet)%		-0.5	-1.5	-0.5	-0.5		
Moisture ratio	**%**	**98.0**	**91.0**	**97.0**	**97.5**		
Hilf density ratio (R_{HD})	**%**	**97.0**	**95.5**	**99.0**	**100.0**		

material description

Silty CLAY

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

Approved Signature
R Schembri

COMPACTION ASSESSMENT

BY NUCLEAR GAUGE METHOD

Terrafirma Laboratories - Deer Park Laboratory
Factory 6 / 22-24 Westwood Drive, Deer Park Phone No: 8348 5596

report No 9227-3
date of issue 27-Feb-2017

Client	Coffey Services Australia Pty Ltd
Client address	436 Johnston St, Abbotsford, 3067
Project	GEOTABTF09878AA Little Green Estate
Location	Tarniet

Feature	Block Fill
Layer thickness (mm)	300

tested by	WH
time	ALL DAY
date	23-Feb-2017
checked by	RS

Field density test procedure AS1289.2.1.1 and 5.8.1 by Coffey, Coffey Corporate Accreditation # 431, Site Accreditation # 1151

Test No		**RW5/220**	**RW6/221**	**RW7/222**	**RW8/223**		
location		03 North	03 South	4	5		
Sampling procedures AS1289.1.1,1.2.1-Clause 6.4(b)							
depth from F.S.L.	m	Layer 2	Layer 2	Layer 2	Layer 2		
measurement depth	mm	275	275	275	275		
field wet density	t/m^3	1.93	1.90	1.90	1.91		
field dry density	t/m3	1.62	1.57	1.60	1.59		
field moisture content	%	19.5	20.6	19.0	20.1		
laboratory compaction procedure AS1289 5.7.1							
compactive effort		standard	standard	standard	standard		
oversize material retained on AS sieve	mm	19.0	19.0	19.0	19.0		
percent of oversize material	wet	0	0	0	0		
peak converted wet density	t/m^3	1.92	1.9	1.93	1.9		
adjusted peak converted wet density	t/m^3	-	-	-	-		
moisture variation from OMC (-dry,+wet)%		-2.0	0.5	-3.0	-2.0		
Moisture ratio	**%**	**90.5**	**102.0**	**86.5**	**91.5**		
Hilf density ratio (R_{HD})	**%**	**100.5**	**99.5**	**98.5**	**100.5**		

material description

Silty CLAY

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

Approved Signature
R Schembri

COMPACTION ASSESSMENT

BY NUCLEAR GAUGE METHOD

Terrafirma Laboratories - Deer Park Laboratory
Factory 6 / 22-24 Westwood Drive, Deer Park Phone No: 8348 5596

report No 9227-4
date of issue 28-Feb-2017

Client	Coffey Services Australia Pty Ltd
Client address	436 Johnston St, Abbotsford, 3067
Project	GEOTABTF09878AA Little Green Estate
Location	Tarniet

Feature	Block Fill
Layer thickness (mm)	200

tested by	WH
time	ALL DAY
date	24-Feb-2017
checked by	RS

Field density test procedure AS1289.2.1.1 and 5.8.1 by Coffey, Coffey Corporate Accreditation # 431, Sit Accreditation # 1151

Test No		**224,RW9**	**225,RW10**	**226,RW11**			
location Chainage(m)		3	4	5			
Sampling procedures AS1289.1.1,1.2.1-Clause 6.4(b)							
depth from F.S.L.	m	Layer 3	Layer 3	Layer 3			
measurement depth	mm	175	175	175			
field wet density	t/m^3	1.94	1.96	1.94			
field dry density	t/m3	1.66	1.71	1.64			
field moisture content	%	16.8	14.4	18.1			
laboratory compaction procedure AS1289 5.7.1							
compactive effort		standard	standard	standard			
oversize material retained on AS sieve	mm	19.0	19.0	19.0			
percent of oversize material	wet	8	12	8			
peak converted wet density	t/m^3	-	-	-			
adjusted peak converted wet density	t/m^3	2.01	2.01	1.97			
moisture variation from OMC (-dry,+wet)%		-2.5	-2.5	-1.5			
Moisture ratio	**%**	**85.5**	**84.5**	**90.5**			
Hilf density ratio (R_{HD})	**%**	**96.5**	**98.0**	**98.5**			

material description

Silty CLAY

NATA ACCREDITED FOR TECHNICAL COMPETENCE

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

Approved Signature
R Schembri

LABORATORY ACCREDITATION No **15357**

/ersion 4 September 2015

COMPACTION ASSESSMENT

BY NUCLEAR GAUGE METHOD

Terrafirma Laboratories - Deer Park Laboratory
Factory 6 / 22-24 Westwood Drive, Deer Park Phone No: 8348 5596

report No 9227-6
date of issue 06-Mar-2017

Client	Coffey Services Australia Pty Ltd
Client address	436 Johnston St, Abbotsford, 3067
Project	GEOTABTF09878AA Little Green Estate
Location	Tarniet

Feature	Lot Fill
Layer thickness (mm)	300

tested by	WH
time	All Day
date	27-Feb-2017
checked by	RS

Field density test procedure AS1289.2.1.1 and 5.8.1 by Coffey, Coffey Corporate Accreditation # 431, Site Accreditation # 1151

Test No		**227**	**228**	**229**	**230**	**231**	**232**
location Lot No		Grid 03	Grid 04	Grid 05	Grid 03	Grid 04	Grid 05
Sampling procedures AS1289.1.1,1.2.1-Clause 6.4(b)							
depth from F.S.L.	m	Layer 4	Layer 4	Layer 4	Layer 5	Layer 5	Layer 5
measurement depth	mm	275	275	275	275	275	275
field wet density	t/m^3	1.93	1.89	1.89	1.89	1.92	1.90
field dry density	t/m3	1.61	1.47	1.63	1.61	1.66	1.61
field moisture content	%	20.1	28.7	16.0	17.2	15.6	18.2
laboratory compaction procedure AS1289 5.7.1							
compactive effort		standard	standard	standard	standard	standard	standard
oversize material retained on AS sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
percent of oversize material	wet	8	3	11	5	6	11
peak converted wet density	t/m^3	-	-	-	-	-	-
adjusted peak converted wet density	t/m^3	1.87	1.87	1.92	1.99	2.02	1.99
moisture variation from OMC (-dry,+wet)%		-3.0	2.5	-3.0	1.5	-2.5	1.0
Moisture ratio	**%**	**86.5**	**110.0**	**84.0**	**109.5**	**85.5**	**106.0**
Hilf density ratio (R_{HD})	**%**	**103.0**	**101.5**	**98.5**	**95.0**	**95.0**	**95.0**

material description

Silty CLAY

NATA ACCREDITED FOR TECHNICAL COMPETENCE

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

Approved Signature
R Schembri

COMPACTION ASSESSMENT

BY NUCLEAR GAUGE METHOD

Terrafirma Laboratories - Deer Park Laboratory
Factory 6 / 22-24 Westwood Drive, Deer Park Phone No: 8348 5596

report No 9227-5
date of issue 06-Mar-2017

Client	Coffey Services Australia Pty Ltd
Client address	436 Johnston St, Abbotsford, 3067
Project	GEOTABTF09878AA Little Green Estate
Location	Tarniet

Feature	Lot Fill
Layer thickness (mm)	300

tested by	WH
time	All Day
date	28-Feb-2017
checked by	RS

Field density test procedure AS1289.2.1.1 and 5.8.1 by Coffey, Coffey Corporate Accreditation # 431, Site Accreditation # 1151

Test No		**233**	**234**				
location Lot No		Grid 05	Grid 04				
Sampling procedures AS1289.1.1,1.2.1-Clause 6.4(b)							
depth from F.S.L.	m	Layer 6	Layer 6				
measurement depth	mm	275	275				
field wet density	t/m^3	1.88	1.90				
field dry density	t/m3	1.61	1.58				
field moisture content	%	17.0	20.3				
laboratory compaction procedure AS1289 5.7.1							
compactive effort		standard	standard				
oversize material retained on AS sieve	mm	19.0	19.0				
percent of oversize material	wet	0	0				
peak converted wet density	t/m^3	1.95	1.93				
adjusted peak converted wet density	t/m^3	-	-				
moisture variation from OMC (-dry,+wet)%		-2.5	-2.0				
Moisture ratio	**%**	**86.0**	**90.5**				
Hilf density ratio (R_{HD})	**%**	**96.5**	**98.5**				

material description

Silty CLAY

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

Approved Signature
R Schembri

Appendix B - “Little Green Residential Precinct 1 Stage 4 - Civil works 7 & 8” civil drawings

LITTLE GREEN
STAGE 7
PEET NO. 1895 PTY LTD

GENERAL NOTES:

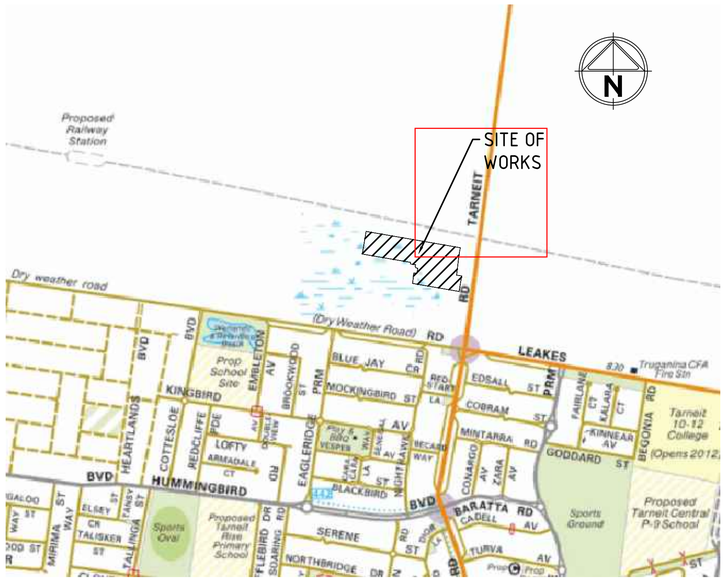
1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
2. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
4. ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
7. ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
8. ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
9. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
10. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
11. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
12. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
13. AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.50m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
14. ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
15. WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION
16. NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCILS PERMISSION.
17. GAS AND WATER CONDUITS ARE TO BE ,
    Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE
    Ø100mm . CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)

    WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
    ROAD PAVEMENT - 0.80m
    VERGE, FOOTPATHS - 0.45m
18. ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
19. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
20. ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
21. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
22. WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
23. WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
24. TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
25. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
26. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
27. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
28. LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
29. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
30. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
31. CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
32. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
33. TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.
34. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.

SHEET LIST TABLE

SHEET NUMBER	SHEET DESCRIPTION	REVISION
01	FACE SHEET	2
02	FACE PLAN	2
03	ROAD LONG SECTIONS	1
04	ROAD LONG SECTIONS	1
05	ROAD CROSS SECTIONS	1
06	ROAD CROSS SECTIONS	1
07	ROAD CROSS SECTIONS	1
08	INTERSECTION DETAIL	1
09	DRAINAGE LONG SECTION	1
10	DRAINAGE LONG SECTION & PIT SCHEDULE	1
11	STANDARD DETAILS	1
12	CATCH DRAIN DETAIL	1
13	RAISED PAVEMENT DETAIL	1
14	RETAINING WALL DETAIL	1
15	SIGNAGE & LINE MARKING	1

2



LOCALITY PLAN

LEGEND

- EXISTING WATER MAIN, VALVE AND HYDRANT
- EXISTING WATER RECYCLED
- EXISTING UNDERGROUND ELECTRICITY
- EXISTING OVERHEAD ELECTRICITY, POLE AND STAY
- EXISTING TELSTRA & SERVICE PIT
- EXISTING OPTIC FIBRE
- EXISTING GAS MAIN
- EXISTING SEWER & MANHOLE
- EXISTING SEWER RISING MAIN
- EXISTING CATCH DRAIN
- EXISTING BIO RETENTION
- EXISTING SWALE DRAIN
- EXISTING OPEN INVERT
- EXISTING STORMWATER DRAIN & SIDE ENTRY PIT
- EXISTING HOUSE DRAIN
- EXISTING TRACK
- EXISTING CONCRETE VEHICLE CROSSING
- EXISTING FOOTPATH
- EXISTING KERB & CHANNEL
- EXISTING SURFACE CONTOUR
- TANGENT POINT ROAD CHAINAGE
- EXISTING SURFACE LEVEL
- EXISTING FILL LEVEL
- EXISTING SIGN AND POST
- EXISTING LIGHT & POLE
- STREET SIGN
- EXISTING PERMANENT SURVEY MARK
- ALLOTMENT NUMBER
- ROAD CHAINAGE
- EXISTING TOP OF BATTER
- EXISTING LIMIT / TOE OF BATTER
- EXISTING TREE & SURVEYED CANOPY TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- EXISTING VEGETATION LINE
- TELECOMMUNICATIONS CONDUIT
- ELECTRICAL CONDUIT
- GAS & WATER CONDUIT
- IRRIGATION CONDUIT
- AG DRAIN CONDUIT
- PROPOSED AG DRAIN & FLUSHER
- CRUSHED ROCK BACKFILL TO STORMWATER TRENCH
- ROCK BEACHING
- PARKING BAY/PAVED AREA
- GRANITIC SAND/SAND FILTER
- EXPOSED AGGREGATE CONCRETE

- PROPOSED WATER MAIN
- PROPOSED WATER RECYCLED
- PROPOSED UNDERGROUND ELECTRICITY
- PROPOSED OVERHEAD ELECTRICITY & POLE
- PROPOSED TELSTRA
- PROPOSED OPTIC FIBRE CONDUIT
- PROPOSED GAS MAIN
- PROPOSED SEWER AND MANHOLE
- PROPOSED SEWER RISING MAIN
- PROPOSED CATCH DRAIN
- PROPOSED BIO RETENTION
- PROPOSED SWALE DRAIN
- PROPOSED OPEN INVERT
- PROPOSED STORMWATER DRAIN & PIT
- PROPOSED DRAINAGE INLET
- PROPOSED HOUSE DRAIN
- PROPOSED STORMWATER PIT NUMBER
- PROPOSED DRIVEWAY
- PROPOSED FOOTPATH
- KERB & CHANNEL + TYPE
- FINISHED SURFACE CONTOUR MINOR
- FINISHED SURFACE CONTOUR MAJOR
- FINISHED SURFACE LEVEL
- TOP/TOE OF BATTER LEVEL
- PROPOSED SIGN & POST
- PROPOSED LIGHT & POLE (BY OTHERS)
- STREET SIGN
- PROPOSED PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK (TBM)
- PROPOSED BOLLARD
- TOP OF BATTER
- LIMIT / TOE OF BATTER
- RIDGE / CHANGE OF GRADE
- INTERSECTION SET-OUT POINT
- LOT GRADE
- ROAD RESERVE
- LOT BOUNDARY
- EASEMENT
- SAW CUT PAVEMENT
- LIMIT OF WORKS
- EXISTING FENCE
- PROPOSED ESTATE FENCING
- VEHICLE EXCLUSION FENCE
- PROTECTIVE TREE FENCING
- FUTURE STORMWATER DRAIN & PIT
- MWC DRAIN & PIT
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED ROCK RETAINING WALL
- EXCAVATION GREATER THAN 200mm
- FILLING GREATER THAN 200mm
- FILLING GREATER THAN 300mm

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		NBN (TELECOM)		ELECTRICITY				
									POLE		U/G CABLE		
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	
STYLE WAY	S	3.15	S	2.68	S	2.25	N	1.84	N	1.00x	N	2.55	
ORANGETREE TERRACE	E	3.15	E	2.68	E	2.25	W	1.84	W	1.00x	W	2.55	
MODERN CRESCENT	S	4.15	S	3.70	S	3.30	S	1.84	N	1.00x	S	2.40	

1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. x = OFFSET FROM BACK OF KERB

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

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Rev	Amendments	App'd	Date
2	REMOVED NORTH RRL BUFFER FOOTPATH	M.Z.	1/03/17
1	AS CONSTRUCTED	M.Z.	16/01/17
0	CONSTRUCTION ISSUE	M.Z.	2/08/16
B	AMENDMENTS AS PER COUNCIL & VALIDATORS COMMENTS	M.Z.	8/07/16
A	ISSUED TO COUNCIL	M.Z.	31/05/16

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file location \\benfsv01\bendata\Data\30\302831\ACAD
plotted by Simon Davies plot date 1/3/2017 4:13 PM

Standard Drawing RDA1 - Version 20120911

Scale
NOT TO SCALE

Designed 27/05/16 S. DAVIES
Checked 30/05/16 B. IBBS
Authorised 31/05/16 M. ZAMMATARO

Map Reference MELWAY 359 B12
Sheet Number 01
Drg Status PRELIMINARY

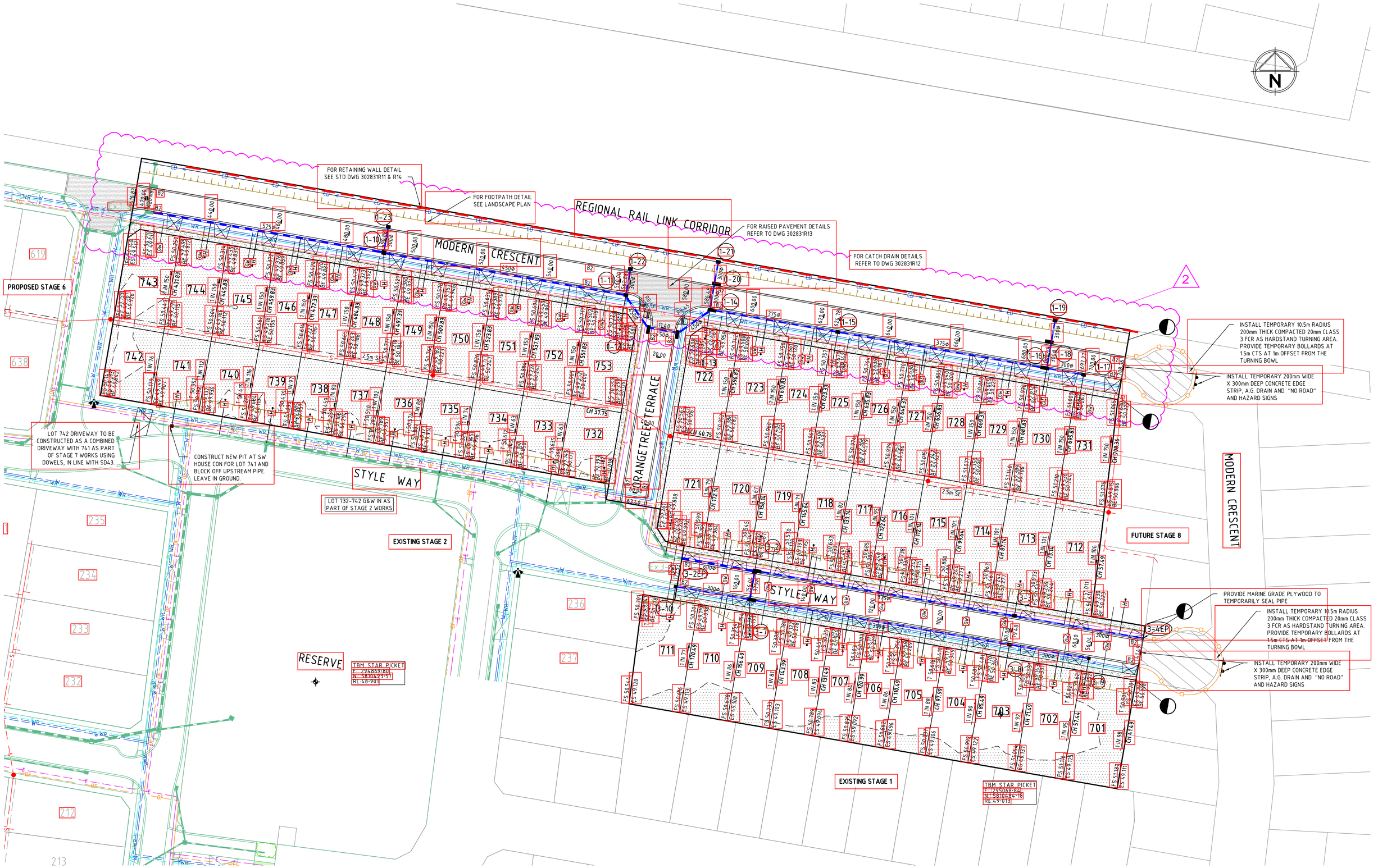
PEET

spiire ABN 55 050 029 635
469 La Trobe Street PO Box 16084 Melbourne Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au

LITTLE GREEN
STAGE 7
FACE SHEET

PEET NO. 1895 PTY LTD
WYNDHAM CITY COUNCIL

Rev 2
Drg No 302831R01



Rev	Amendments	App'd	Date
2	REMOVED NORTH RRL BUFFER FOOTPATH	M.Z.	1/03/17
1	AS CONSTRUCTED	M.Z.	16/01/17
0	CONSTRUCTION ISSUE	M.Z.	2/08/16
B	REVISED 702 HOUSE DRAIN, 1.5m FOOTPATH, TGSI, LOT HATCH, BE LEVELS	M.Z.	8/07/16
A	ISSUED TO COUNCIL	M.Z.	31/05/16

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file location G:\30\302831\ACAD
plotted by Simon Davies plot date 1/3/2017 4:13 PM

Standard Drawing RDA1 - Version 20120911

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Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25

Designed 27/05/16 S. DAVIES
Checked 30/05/16 B. IBBS
Authorised 31/05/16 M. ZAMMATARO

Map Reference MELWAY 359 B12
Sheet Number 02
Drg Status PRELIMINARY

PEET

spiire ABN 55 050 029 635
469 La Trobe Street PO Box 16084 Melbourne Victoria 8007 Australia T 61 3 9993 7888
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LITTLE GREEN STAGE 7
FACE PLAN

PEET NO. 1895 PTY LTD
WYNDHAM CITY COUNCIL

Rev 2
Drg No 302831R02

LITTLE GREEN
STAGE 8
PEET NO. 1895 PTY LTD

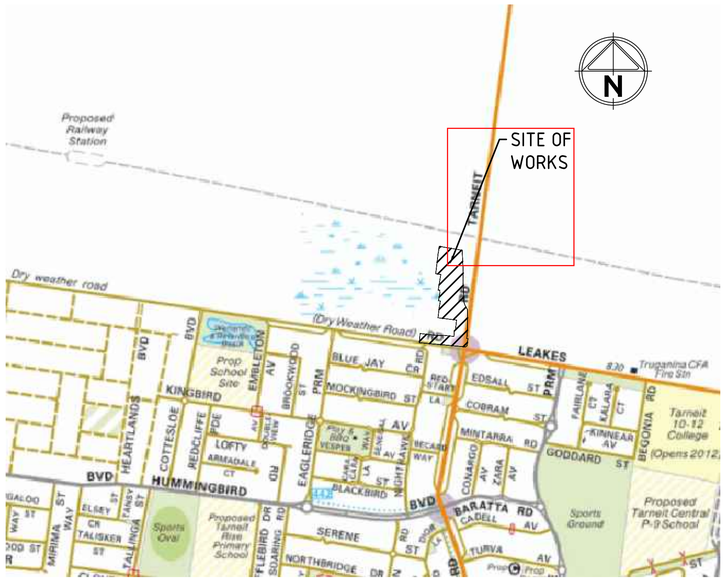
GENERAL NOTES:

1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
2. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
4. ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
7. ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
8. ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
9. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
10. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
11. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
12. TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
13. AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.50m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
14. ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
15. WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION
16. NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCILS PERMISSION.
17. GAS AND WATER CONDUITS ARE TO BE ,
    Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE
    Ø100mm . CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)

    WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
    ROAD PAVEMENT - 0.80m
    VERGE, FOOTPATHS - 0.45m
18. ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
19. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
20. ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
21. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
22. WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
23. WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
24. TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
25. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
26. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
27. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
28. LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
29. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
30. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
31. CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
32. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
33. TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.
34. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.

Sheet List Table

SHEET NUMBER	SHEET DESCRIPTION	REVISION
01	FACE SHEET	0
02	FACE PLAN	0
03	LONGITUDINAL SECTIONS	0
04	LONGITUDINAL SECTIONS	0
05	ROAD CROSS SECTIONS	0
06	ROAD CROSS SECTIONS	0
07	ROAD CROSS SECTIONS	0
08	INTERSECTION DETAILS	0
09	INTERSECTION DETAILS	0
10	INTERSECTION DETAILS	0
11	DRAINAGE LONG SECTIONS	0
12	DRAINAGE PIT SCHEDULE	0
13	STANDARD DETAILS	0
13A	RETAINING WALL DETAILS	0
14	CATCH DRAIN & RETAINING WALL LS	0
15	SIGNAGE & LINEMARKING	0



LOCALITY PLAN

LEGEND

- EXISTING WATER MAIN, VALVE AND HYDRANT
- EXISTING WATER RECYCLED
- EXISTING UNDERGROUND ELECTRICITY
- EXISTING OVERHEAD ELECTRICITY, POLE AND STAY
- EXISTING TELSTRA & SERVICE PIT
- EXISTING OPTIC FIBRE
- EXISTING GAS MAIN
- EXISTING SEWER & MANHOLE
- EXISTING SEWER RISING MAIN
- EXISTING CATCH DRAIN
- EXISTING BIO RETENTION
- EXISTING SWALE DRAIN
- EXISTING OPEN INVERT
- EXISTING STORMWATER DRAIN & SIDE ENTRY PIT
- EXISTING HOUSE DRAIN
- EXISTING TRACK
- EXISTING CONCRETE VEHICLE CROSSING
- EXISTING FOOTPATH
- EXISTING KERB & CHANNEL
- EXISTING SURFACE CONTOUR
- TANGENT POINT ROAD CHAINAGE
- EXISTING SURFACE LEVEL
- EXISTING FILL LEVEL
- EXISTING SIGN AND POST
- EXISTING LIGHT & POLE
- STREET SIGN
- EXISTING PERMANENT SURVEY MARK
- ALLOTMENT NUMBER
- ROAD CHAINAGE
- EXISTING TOP OF BATTER
- EXISTING LIMIT / TOE OF BATTER
- EXISTING TREE & SURVEYED CANOPY TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- EXISTING VEGETATION LINE
- TELECOMMUNICATIONS CONDUIT
- ELECTRICAL CONDUIT
- GAS & WATER CONDUIT
- IRRIGATION CONDUIT
- AG DRAIN CONDUIT
- PROPOSED AG DRAIN & FLUSHER
- CRUSHED ROCK BACKFILL TO STORMWATER TRENCH
- ROCK BEACHING
- PARKING BAY/PAVED AREA
- GRANITIC SAND/SAND FILTER
- EXPOSED AGGREGATE CONCRETE

- PROPOSED WATER MAIN
- PROPOSED WATER RECYCLED
- PROPOSED UNDERGROUND ELECTRICITY
- PROPOSED OVERHEAD ELECTRICITY & POLE
- PROPOSED TELSTRA
- PROPOSED OPTIC FIBRE CONDUIT
- PROPOSED GAS MAIN
- PROPOSED SEWER AND MANHOLE
- PROPOSED SEWER RISING MAIN
- PROPOSED CATCH DRAIN
- PROPOSED BIO RETENTION
- PROPOSED SWALE DRAIN
- PROPOSED OPEN INVERT
- PROPOSED STORMWATER DRAIN & PIT
- PROPOSED DRAINAGE INLET
- PROPOSED HOUSE DRAIN
- PROPOSED STORMWATER PIT NUMBER
- PROPOSED DRIVEWAY
- PROPOSED FOOTPATH
- KERB & CHANNEL + TYPE
- FINISHED SURFACE CONTOUR MINOR
- FINISHED SURFACE CONTOUR MAJOR
- FINISHED SURFACE LEVEL
- TOP/TOE OF BATTER LEVEL
- PROPOSED SIGN & POST
- PROPOSED LIGHT & POLE (BY OTHERS)
- STREET SIGN
- PROPOSED PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK (TBM)
- PROPOSED BOLLARD
- TOP OF BATTER
- LIMIT / TOE OF BATTER
- RIDGE / CHANGE OF GRADE
- INTERSECTION SET-OUT POINT
- LOT GRADE
- ROAD RESERVE
- LOT BOUNDARY
- EASEMENT
- SAW CUT PAVEMENT
- LIMIT OF WORKS
- EXISTING FENCE
- PROPOSED ESTATE FENCING
- VEHICLE EXCLUSION FENCE
- PROTECTIVE TREE FENCING
- FUTURE STORMWATER DRAIN & PIT
- MWC DRAIN & PIT
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED ROCK RETAINING WALL
- EXCAVATION GREATER THAN 200mm
- FILLING GREATER THAN 200mm
- FILLING GREATER THAN 300mm
- EXISTING ROAD SHOULDER EDGE
- EXISTING WINGWALL

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		NBN (TELECOM)		ELECTRICITY			
									U/G CABLE		POLE	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
STYLE WAY	S	3.15	S	2.68	S	2.25	N	1.84	N	2.55	N	1.00x
MODERN CRESCENT (NORTH-SOUTH)	E	3.15	E	2.68	E	2.25	W	1.84	W	2.55	W	1.00x
MODERN CRESCENT (EAST-WEST)	S	4.15	S	3.70	S	3.30	S	1.84	S	2.40	N	1.00x
MAINTOP WAY	N	3.15	N	2.68	N	2.25	S	1.84	S	2.55	S	1.00x
APPLEGATE CRESCENT	W	3.35	W	2.85	W	2.35	W	1.84	E	1.25x	E	1.00x

1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. x = OFFSET FROM BACK OF KERB

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES

THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

Rev	Amendments	App'd	Date
0	CONSTRUCTION ISSUE	M.Z.	4/10/16
D	REVISED RETAINING WALL DETAILS TO MATCH STRUCTURAL DESIGN	M.Z.	27/09/16
C	REVISED RESERVE FOOTPATH	M.Z.	9/09/16
B	REVISED AS PER COUNCIL AND VALIDATOR COMMENTS	M.Z.	26/08/16
A	ISSUED FOR APPROVAL	M.Z.	1/07/16

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file location G:\30\302850\ACAD
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Standard Drawing RDA1 - Version 20120911

Scale
NOT TO SCALE

Designed 27/06/16
S. DAVIES
Checked 01/07/16
B. IBBS
Authorised 01/07/16
M. ZAMMATARO

Map Reference MELWAY 359 B12
Sheet Number 01
Drg Status PRELIMINARY

PEET

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LITTLE GREEN
STAGE 8
FACE SHEET

PEET NO. 1895 PTY LTD
WYNDHAM CITY COUNCIL

Rev 0
Drg No 302850R01

TARNEIT ROAD

EXISTING VICTRACK ACCESS ROAD

FOR RETAINING WALL DETAIL SEE STD DWG 302831R13&R14

BOUNDARY FENCE TO BE INSTALLED ON THE NORTH SIDE OF LOT 516 IN ACCORDANCE WITH WCC STD DWG SD11-5B

FOR CATCH DRAIN DETAILS REFER TO DWG 302831R14

REGIONAL RAIL LINK CORRIDOR

FOOTPATH IN NORTH RESERVE INDICATIVE ONLY. SEE LANDSCAPE PLAN FOR DETAIL. TO BE CONSTRUCTED BY OTHERS

FOR RETAINING WALL DETAIL SEE STD DWG 302831R13&R14

CONTRACTOR TO SHAPE EXISTING CATCH DRAIN TO ENSURE FALL TO THE EAST TOWARD PIT 6-2

CONTRACTOR TO DECREASE BATTER SLOPE GRADUALLY FROM 1S AT CH 330.00 DOWN TO MATCH INTO EXISTING CATCH DRAIN

FUTURE LEAKES ROAD WIDENING

COUNCIL RESERVE

APPLEGATE CRESCENT

MODERN CRESCENT

STYLE WAY

MAINTOP WAY

PROPOSED STAGE 7

PROPOSED STAGE 7

EXISTING STAGE 1

EXISTING STAGE 1

TBM STAD PICKET
E 735068.84
N 5811434.18
RL 49.913

Rev	Amendments	App'd	Date
0	CONSTRUCTION ISSUE	M.Z.	4/10/16
C	REVISED RESERVE FOOTPATH	M.Z.	9/09/16
B	REVISED PRAM CROSSING, FOOTPATH NOTE & PIT 6-2, REMOVED LMARKING	M.Z.	26/08/16
A	ISSUED FOR APPROVAL	M.Z.	1/07/16

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Standard Drawing RDA1 - Version 20120911

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Vertical 0 5 10 15 20 25

Designed 27/06/16 S. DAVIES
Checked 01/07/16 B. IBBS
Authorised 01/07/16 M. ZAMMATARO

Map Reference MELWAY 359 B12
Sheet Number 02
Drg Status PRELIMINARY

PEET

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LITTLE GREEN STAGE 8
FACE PLAN

PEET NO. 1895 PTY LTD
WYNDHAM CITY COUNCIL

Rev 0
Drg No 302850R02

LEGEND

S1 — STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SD812, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

TACTILE GROUND SURFACE INDICATORS (TGSI's)

RETROREFLECTIVE PAVEMENT MARKERS (RRPM's)

NOTE:

1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

Rev	Amendments	App'd	Date
0	CONSTRUCTION ISSUE	M.Z.	4/10/16
B	REMOVED INTERSECTION LINEMARKING & GIVEWAY SIGNS	M.Z.	26/08/16
A	ISSUED FOR APPROVAL	M.Z.	1/07/16

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plotted by Simon Davies plot date 4/10/2016 3:50 PM
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Standard Drawing RDA1 - Version 20120911

Scale: **NOT TO SCALE**

Designed 27/06/16 S. DAVIES
Checked 01/07/16 B. IBBS
Authorised 01/07/16 M. ZAMMATARO

Map Reference MELWAY 359 B12
Sheet Number 15
Drg Status PRELIMINARY

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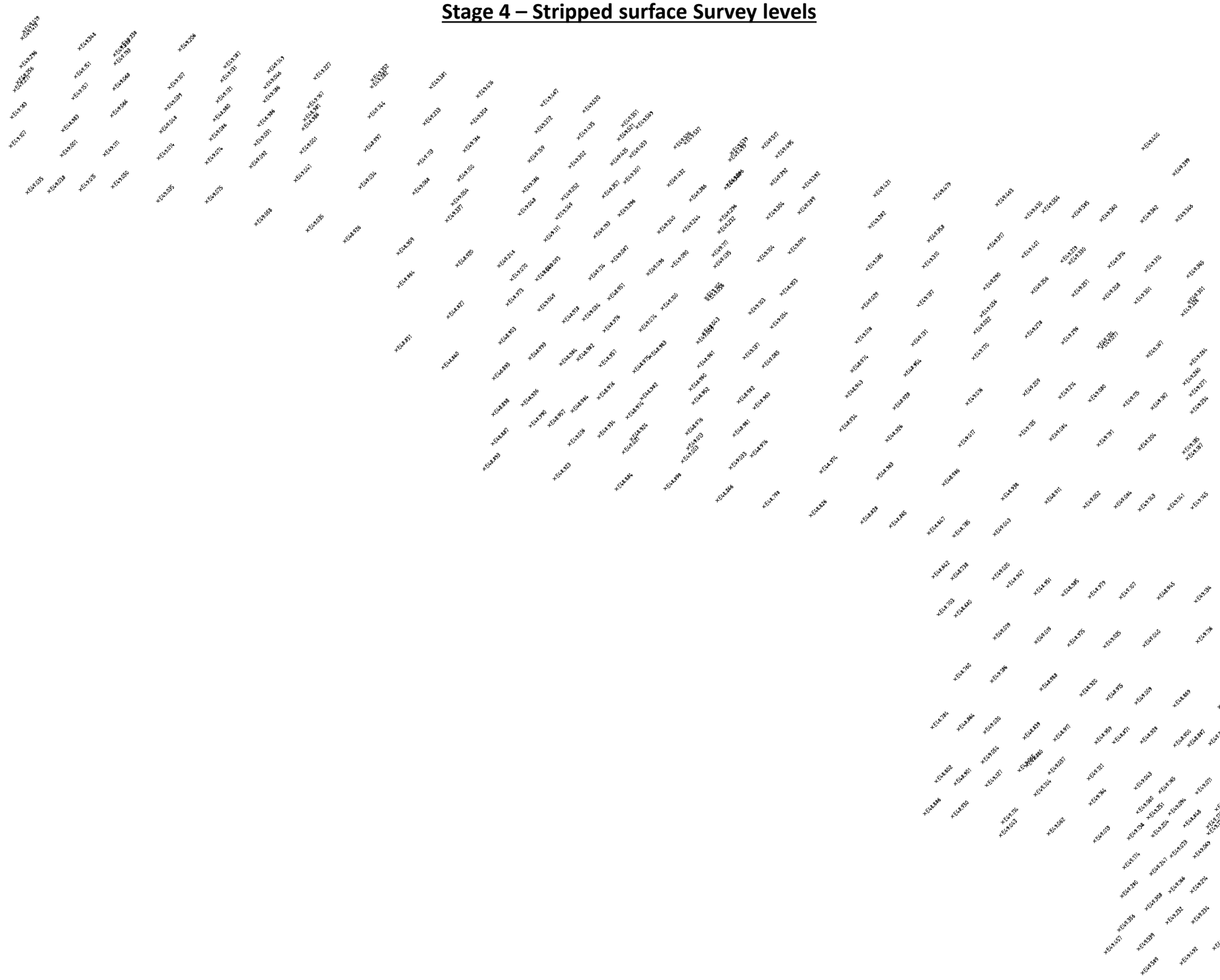
LITTLE GREEN
STAGE 8
SIGNAGE & LINEMARKING

PEET NO. 1895 PTY LTD
WYNDHAM CITY COUNCIL

Rev 0
Drg No 302850R15

Stage 4 – Stripped surface Survey levels



revision	description	drawn	approved	date

Source: Stage 4 – Stripped surface survey levels as extracted from CAD files provided by SPIIRE

drawn	I.I.
approved	S.P.
date	23/3/2017
scale	NTS
original size	A3

coffey
A TETRA TECH COMPANY

client:	PEET 1895 Pty Ltd
project:	STAGE 4 BULK (CIVIL STAGES 7 AND 8) LEVEL 1 LITTLE GREEN ESTATE
title:	STRIPPED SURFACE SURVEY PLAN
project no:	GEOTABTF09878AA - AI
figure no:	

Stage 4 – Finished surface Survey levels

revision	description	drawn	approved	date

Source: Stage 4 – Finished surface survey levels as extracted from CAD files provided by SPIIRE

drawn	I.I.
approved	S.P.
date	23/3/2017
scale	NTS
original size	A3

coffey
A TETRA TECH COMPANY

client:	PEET 1895 Pty Ltd
project:	STAGE 4 BULK (CIVIL STAGES 7 AND 8) LEVEL 1 LITTLE GREEN ESTATE
title:	FINISHED SURFACE SURVEY PLAN
project no:	GEOTABTF09878AA - AI
figure no:	

Appendix C - Summary of imported fill material

GEOTABTF09878AA - LITTLE GREEN - IMPORT MATERIAL SUMMARY

Fill source	Dates observed	Estimated volume (m3) by Coffey /olume (m3	Stage placed
Ravenshall Prison	25/09/2015	1250	3
Ravenshall Prison	28/09/2015	1000	3
Ravenshall Prison	30/09/2015	1500	3
Ravenshall Prison	1/10/2015	950	3
Caroline Springs	6/10/2015	150	3
Werribee, Caroline Springs	7/10/2015	210	3
St Albans, Caroline Springs,	8/10/2015	880	3
St Albans, Caroline Springs,	9/10/2015	820	3
St Albans, Werribee	10/10/2015	1500	3
St Albans, Werribee	12/10/2015	1400	3
St Albans, Vinedex Sunshine	13/10/2015	650	3
St Albans, Vinedex Sunshine, Ravenshall Prison	14/10/2015	2300	3
St Albans, Werribee	15/10/2015	x	3
St Albans, Vinedex Sunshine	16/10/2015	x	3
Vinedex Sunshine, St Albans	20/10/2015	160	3
Ravenshall Prison, St Albans	21/10/2015	2190	3
South Yarra, Ravenshall Prison, St Albans	22/10/2015	810	1 & 3
South Yarra, Ravenshall Prison	23/10/2015	550	1 & 3
South Yarra. Ravenshall Prison, Werribee	26/10/2015	1900	1 & 3
Coburg, South Melbourne, Werribee Plaza	27/10/2015	1150	1 & 3
Coburg, South Melbourne	28/10/2015	1150	1 & 3
Altona, South Melbourne, Werribee	29/10/2015	2020	1 & 3
Altona, Coburg, On-site (Stage 1 only)	30/10/2015	1040	1 & 3
Coburg, South Melbourne, On-site (Stage 1 only)	4/11/2015	740	1 & 3
St Albams, Coburg, South Melbourne, On-site (Stage 1 only)	10/11/2015	1380	1 & 3
Ravenhall Prison, Ivanhoe, Laverton, On-site (Stage 1 only)	16/11/2015	940	1 & 3
Ivanhoe, Ravenhall Prison,	18/11/2015	2180	1 & 3
Melton, South Melbourne, Ravenhall Prison	19/11/2015	3000	3
Coburg, South Melbourne, Ravenhall Prison	20/11/2015	2880	3
Coburg	23/11/2015	840	3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	24/11/2015	940	1 & 3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	25/11/2015	1340	1 & 3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	26/11/2015	1840	1 & 3
Ravenhall Prison, Niddrie	27/11/2015	1680	3
Ravenhall Prison	28/11/2015	600	3

GEOTABTF09878AA - LITTLE GREEN - IMPORT MATERIAL SUMMARY

Fill source	Dates observed	Estimated volume (m3) by Coffey	Volume (m3	Stage placed
Galvin Park, Ravenhall Prison	30/11/2015	2060		3 & 4
Ravenhall Prison	1/12/2015	1460		3 & 4
Coburg, Ravenhall Prison	2/12/2015	1810		3 & 4
South Yarra, St Albans	8/12/2015	1100		3 & 4
Coburg	11/12/2015	530		3 & 4
Coburg, St Albans	15/12/2015	230		3 & 4
Ravenhall Prison, St Albans	16/12/2015	1550		3 & 4
St Albans	4/01/2016	60		3 & 4
St Albans	5/01/2016	20		4
Coburg, St Albans	6/01/2016	790		3 & 4
Coburg	7/01/2016	1080		3 & 4
Coburg	8/01/2016	200		3 & 4

GEOTABTF09878AA - LITTLE GREEN - IMPORT MATERIAL SUMMARY (DRAFT)

Fill source	Dates observed	Estimated volume (m3) by Coffey	Stage placed	Environmental report	Geotech report	Comment
x	1/05/2015	x	x			
	2/05/2015					
x	3/05/2015	x	x			
Werribee Plaza, Point Cook	4/05/2015	x	1			
Werribee Plaza, Point Cook, Trugania, Broadmedows, Tarneit	5/05/2015	2500-3000	1			
Epping, Werribee plaza, Point Cook, Truganina, Broadmedows, Tarneit	6/05/2015	2500-3000	1			
Epping, Werribee plaza, Point Cook, Truganina, Broadmedows, Tarneit	7/05/2015	x	1			
x	8/05/2015	x	1			
	9/05/2015					
x	10/05/2015	x	1			
Epping, Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, Preston	11/05/2015	x	1			
x	12/05/2015	x	1			
Epping, Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, Preston, Werribee Hospital	13/05/2015	2900	1			
x	14/05/2015	x	1			
	15/05/2015					
	16/05/2015					
Epping, Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, Preston, Werribee Hospital	17/05/2015	x	1			
x	18/05/2015	x	1			
Epping, Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, Preston, Werribee Hospital	19/05/2015	x	1			
x	20/05/2015	x	1			
Werribee Plaza, Point Cook	21/05/2015	1980	1			
Tarneit, Broadmeadows	22/05/2015	x	1			
	23/05/2015					
Tarneit, Broadmeadows	24/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	25/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	26/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	27/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	28/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	29/05/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	30/05/2015	x	1			
	31/05/2015					
	1/06/2015					
x	2/06/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	3/06/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	4/06/2015	x	1			
	5/06/2015					
	6/06/2015					
	7/06/2015					
	8/06/2015					
	9/06/2015					
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	10/06/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	11/06/2015	x	1			
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	12/06/2015	x	1			
	13/06/2015					
	14/06/2015					
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	15/06/2015	x	1			
x	16/06/2015	x	1			
x	17/06/2015	x	1			
	18/06/2015					
	19/06/2015					
	20/06/2015					
	21/06/2015					
Werribee Plaza, Point Cook, Truganina, Broadmedows, Tarneit, *BMD sources	22/06/2015	x	1			
BMD roadworks (parallel road)	23/06/2015	x	1			
BMD roadworks (parallel road)	24/06/2015	x	1			
BMD roadworks (parallel road)	25/06/2015	x	1			
BMD roadworks (parallel road)	26/06/2015	x	1			
	27/06/2015					
	28/06/2015					
BMD roadworks (parallel road)	29/06/2015	x	1			
BMD roadworks (parallel road)	30/06/2015	x	1			
BMD roadworks (parallel road)	1/07/2015	x	1			
BMD roadworks (parallel road), local BMD project	2/07/2015	x	1			
BMD roadworks (parallel road), local BMD project	3/07/2015	x	1			
	4/07/2015					
	5/07/2015					
	6/07/2015					
	7/07/2015					
BMD roadworks (parallel road), local BMD project	8/07/2015	x	1			

BMD roadworks (parallel road), local BMD project	9/07/2015	x	1
BMD roadworks (parallel road), local BMD project	10/07/2015	x	1
	11/07/2015		
	12/07/2015		
	13/07/2015		
	14/07/2015		
	15/07/2015		
	16/07/2015		
	17/07/2015		
	18/07/2015		
	19/07/2015		
	20/07/2015		
	21/07/2015		
	22/07/2015		
	23/07/2015		
Wootten road (local BMD project)	24/07/2015	x	1 & 2
	25/07/2015		
	26/07/2015		
Wootten road (local BMD project)	27/07/2015	x	2
Wootten road (local BMD project)	28/07/2015	x	2
Wootten road (local BMD project)	29/07/2015	x	2
Ivanhoe. Ravenhall Prison	30/07/2015	1640	2
x	31/07/2015	x	2
	1/08/2015		
	2/08/2015		
x	3/08/2015	x	2
Werribee Plaza	4/08/2015	2520	2
x	5/08/2015	x	2
Werribee Plaza	6/08/2015	1970	2
Werribee Plaza	7/08/2015	2300	2
	8/08/2015		
	9/08/2015		
Werribee Plaza, Ivanhoe	10/08/2015	1700	2
Werribee Plaza, Ivanhoe	11/08/2015	200	2
Werribee Plaza, Ivanhoe	12/08/2015	920	2
Werribee Plaza, Ivanhoe, South Yarra (Landtrack)	13/08/2015	840	2
Werribee Plaza, Ivanhoe, South Yarra (Landtrack)	14/08/2015	940	2
	15/08/2015		
	16/08/2015		
Leakes roadworks	17/08/2015	1534.5	1 & 2
Leakes roadworks, Werribee Plaza, Essendon	18/08/2015	2163	1 & 2
Leakes roadworks, Werribee Plaza, Essendon	19/08/2015	2704	2
Leakes radworks, Werribee Plaza	20/08/2015	3721	2
Leakes roadworks, Ravenhall Prison	21/08/2015	2620	2
	22/08/2015		
	23/08/2015		
Werribee Plaza, South Yarra (Landtrack)	24/08/2015	2530	2
Werribee Plaza, Ivanhoe Prison	25/08/2015	1330	2
Glen Iris (Chappell street), Leakes roadworks	26/08/2015	1000	2
Glen Iris (Chappell street), Leakes roadworks	27/08/2015	1000	2
Glen Iris (Chappell street), Leakes roadworks	28/08/2015	730	2
	29/08/2015		
	30/08/2015		
South Yarra, Ranvenshall Prison, Wooten road	31/08/2015	780	2
Werribee Plaza, Ravenhall Prison	1/09/2015	1740	2
Werribee Plaza, South Yarra (Chapel street)	2/09/2015	1430	2
x	3/09/2015	x	x
x	4/09/2015	x	x
	5/09/2015		
	6/09/2015		
x	7/09/2015	x	x
	8/09/2015		
x	9/09/2015	x	2
x	10/09/2015	x	2
	11/09/2015		
	12/09/2015		
	13/09/2015		
	14/09/2015		
	15/09/2015		
	16/09/2015		
	17/09/2015		
	18/09/2015		
	19/09/2015		
	20/09/2015		
	21/09/2015		
	22/09/2015		

	23/09/2015		
x	24/09/2015	x	3
Ravenhall Prison	25/09/2015	1250	3
	26/09/2015		
	27/09/2015		
Ravenhall Prison	28/09/2015	1000	3
	29/09/2015		
Ravenhall Prison	30/09/2015	1500	3
Ravenhall Prison	1/10/2015	950	3
	2/10/2015		
	3/10/2015		
	4/10/2015		
	5/10/2015		
Caroline Springs	6/10/2015	150	3
Werribee, Caroline Springs	7/10/2015	210	3
St Albans, Caroline Springs,	8/10/2015	880	3
St Albans, Caroline Springs,	9/10/2015	820	3
St Albans, Werribee	10/10/2015	1500	3
	11/10/2015		
St Albans, Werribee	12/10/2015	1400	3
St Albans, Vinedex Sunshine	13/10/2015	650	3
St Albans, Vinedex Sunshine, Ravenhall Prison	14/10/2015	2300	3
St Albans, Werribee	15/10/2015	x	3
St Albans, Vinedex Sunshine	16/10/2015	x	3
	17/10/2015		
	18/10/2015		
x	19/10/2015	x	3
Vinedex Sunshine, St Albans	20/10/2015	160	3
Ravenhall Prison, St Albans	21/10/2015	2190	3
South Yarra, Ravenhall Prison, St Albans	22/10/2015	810	1 & 3
South Yarra, Ravenhall Prison	23/10/2015	550	1 & 3
	24/10/2015		
	25/10/2015		
South Yarra. Ravenhall Prison, Werribee	26/10/2015	1900	1 & 3
Coburg, South Melbourne, Werribee Plaza	27/10/2015	1150	1 & 3
Coburg, South Melbourne	28/10/2015	1150	1 & 3
Altona, South Melbourne, Werribee	29/10/2015	2020	1 & 3
Altona, Coburg, On-site (Stage 1 only)	30/10/2015	1040	1 & 3
	31/10/2015		
	1/11/2015		
	2/11/2015		
	3/11/2015		
Coburg, South Melbourne, On-site (Stage 1 only)	4/11/2015	740	1 & 3
	5/11/2015		
	6/11/2015		
	7/11/2015		
	8/11/2015		
On-site (Stage 1 only)	9/11/2015		
St Albams, Coburg, South Melbourne, On-site (Stage 1 only)	10/11/2015	1380	1 & 3
On-site (Stage 1 only)	11/11/2015		
On-site (Stage 1 only)	12/11/2015		
On-site (Stage 1 only)	13/11/2015		
	14/11/2015		
	15/11/2015		
Ravenhall Prison, Ivanhoe, Laverton, On-site (Stage 1 only)	16/11/2015	940	1 & 3
On-site (Stage 1 only)	17/11/2015		3
Ivanhoe, Ravenhall Prison,	18/11/2015		1 & 3
Melton, South Melbourne, Ravenhall Prison	19/11/2015	3000	3
Coburg, South Melbourne, Ravenhall Prison	20/11/2015	2880	3
	21/11/2015		
	22/11/2015		
Coburg	23/11/2015	840	3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	24/11/2015	940	1 & 3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	25/11/2015	1340	1 & 3
South Melbourne, Ravenhall Prison, on-site (Stage 1 only)	26/11/2015	1840	1 & 3
Ravenhall Prison, Niddrie	27/11/2015	1680	3
Ravenhall Prison	28/11/2015	600	3
	29/11/2015		
Galvin Park, Ravenhall Prison	30/11/2015	2060	3 & 4
Ravenhall Prison	1/12/2015	1460	3 & 4
Coburg, Ravenhall Prison	2/12/2015	1810	3 & 4
South Yarra, St Albans	3/12/2015	1310	4
South Yarra, Ravenhall Prison	4/12/2015	1760	4
	5/12/2015		
	6/12/2015		
	7/12/2015		

South Yarra, St Albans	8/12/2015	1100	3 & 4
Werribee Plaza, St Albans, Coburg	9/12/2015	2370	4
Werribee Plaza, St Albans, Coburg	10/12/2015	1590	4
Coburg	11/12/2015	530	3 & 4
	12/12/2015		
	13/12/2015		
Coburg, St Albans	14/12/2015	630	4
Coburg, St Albans	15/12/2015	230	3 & 4
Ravenhall Prison, St Albans	16/12/2015	1550	3 & 4
South Yarra, South Melbourne	17/12/2015	1580	4
Werribee Plaza, Essendon, South Melbourne, South Yarra, St Albans	18/12/2015	5160	4
	19/12/2015		
	20/12/2015		
Port Melbourne, South Yarra	21/12/2015	1950	4
Ravenhall Prison, South Melbourne	22/12/2015	2020	4
	23/12/2015		
	24/12/2015		
	25/12/2015		
	26/12/2015		
	27/12/2015		
	28/12/2015		
	29/12/2015		
	30/12/2015		
	31/12/2015		
	1/01/2016		
	2/01/2016		
	3/01/2016		
St Albans	4/01/2016	60	3 & 4
St Albans	5/01/2016	20	4
Coburg, St Albans	6/01/2016	790	3 & 4
Coburg	7/01/2016	1080	3 & 4
Coburg	8/01/2016	200	3 & 4
	9/01/2016		
	10/01/2016		
South Melbourne	11/01/2016	430	4
South Melbourne	12/01/2016	750	4
	13/01/2016	0	
South Yarra, Werribee	14/01/2016	1120	4
Ravenhall Prison	15/01/2016	740	4
	16/01/2016		
	17/01/2016		
Ravenhall Prison, South Melbourne	18/01/2016	1050	4
Ravenhall Prison, South Melbourne, South Yarra, onsite BMD	19/01/2016	2210	4
	20/01/2016	0	
Ravenhall Prison, South Yarra, onsite BMD	21/01/2016	1350	4
Ravenhall Prison	22/01/2016	320	4
	23/01/2016		
	24/01/2016		
	25/01/2016		
	26/01/2016		
Ravenhall Prison, St. Albans	27/01/2016	2320	4
	28/01/2016	0	
	29/01/2016	0	
	30/01/2016		
	31/01/2016		
	1/02/2016		
Essendon, South Melbourne, South Yarra	2/02/2016	1810	4
Onsite BMD, Werribee, South Melbourne	3/02/2016	1230	4
Onsite BMD, St. Albans, South Melbourne	4/02/2016	2990	4
Onsite BMD, St. Albans, Boral processed St. Albans	5/02/2016	1880	4
BMD onsite	6/02/2016 8/02/2016	180	4
Onsite BMD, St. Albans, South Melbourne, Werribee, Essendon	9/02/2016	1490	4
	10/02/2016		
	11/02/2016		
Onsite BMD, St. Albans, South Melbourne, Essendon	12/02/2016	1240	4
Essendon, onsite BMD, St. Albans	15/02/2016	1120	4
Essendon	16/02/2016	1700	4
Essendon, St. Albans	17/02/2016	630	4
Onsite BMD	18/02/2016	350	4
Onsite BMD	19/02/2016	1640	4