

# 250 Wedge Road Stage 3A

## GITA Inspection Verification Report

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**Prepared For:** Streetworks Pty Ltd

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**Report Number** P241794A V1

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**Version Release Date** 18 Sep 2024

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**Report Released By** C Caulfield

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**Title** Laboratory Manager

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**Signature**



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## 1 Introduction

*Terra Firma Laboratories* was engaged by Streetworks Pty Ltd as the Geotechnical Inspection and Testing Authority (GITA) to provide Level 1 supervision and testing works on the earthworks component for 250 Wedge Road Stage 3A. This work was conducted over the period of 02/03/2024 to 30/08/2024.

This report presents that the allotment earthworks was carried out in accordance with AS3798-2007 *Guidelines for Earthworks for Commercial and Residential Development* and in compliance with the compaction control specifications established by the contractor.

## 2 Scope of Work

### 2.1 Area of Work

The areas of work included lots 332 to 349, bounded by streets Seabury Promenade, Claymore Street and Odessa Place. The site will be a Residential development.

The area on which fill was placed is shown on site plan (Appendix 1: *Test Location Plan*) based on drawings prepared by Your Land Developments (Drawing Reference: 320311-000CR200 0) and provided by Streetworks Pty Ltd.

The supervision work by the GITA involved both inspection of sub grade preparation work and full time inspection and testing of fill placement.

### 2.2 Specification

The technical specification (Reference from Drawings) for compaction control requirements was provided by Streetworks Pty Ltd and established that:

Test Rolling is required for all layers of structural fill and materials within 150mm of permanent subgrade level so as to withstand test rolling without visible deformation or springing. Corrective action is required where unstable areas exceed 20% of the area being considered by test rolling.

Section 5.2 of AS3798-2007 (Section 5.2) establishes a specification requirement for a minimum density ratio of not less than 95% noting that soils containing more than 20% of particles coarser than 37.5mm cannot be tested for relative compaction using the procedures of AS1289 5.1.1 and AS1289 5.2.1.

In accordance with Table 8.1 (AS3798), for large scale operations, (greater than 1500m<sup>2</sup>), the minimum testing frequency is 1 test per layer per material type per 2500m<sup>2</sup> or 1 test per 500m<sup>3</sup> distributed reasonable evenly throughout full depth and area or 3 tests per lot. AS3798 defines a lot as “an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work”. All three of these test frequencies must be achieved and this is typically confirmed to have been achieved when 3 tests per visit (day) have been completed.

### 2.3 Limitations

Terra Firma Laboratories cannot verify any works completed by others outside of the time period specified in the introduction. Uncontrolled works may include, but are not limited to trenching for services, cut and fill works for slab preparation or subsequent removal of vegetation and back fill of holes unless specified in section 2.1 of this report.

Terra Firma Laboratories cannot verify that the material used as a filling medium is free from chemical or other contamination. The scope and the period of Terra Firma Laboratories as described in the introduction are subject to restrictions and limitations. Terra Firma Laboratories did not perform a complete assessment of all possible conditions and circumstances that may exist at the site. If a service is not expressly indicated, do not assume it has been provided. If a matter is not addressed, do not assume that any determination has been made by Terra Firma Laboratories.

Verification of finished surface level to design levels is outside of the scope of the GITA report.

Any drawings or marked locations presented in this report should be considered only as pictorial evidence of our work. Therefore, unless otherwise stated, any dimensions should not be used for accurate calculations or dimensioning.

Where data has been supplied by the client or a third party, it is assumed that the information is correct unless otherwise stated. No responsibility is accepted by Terra Firma Laboratories for incomplete or inaccurate data supplied by others.

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### 3 Construction Method

#### 3.1 Subgrade Preparation

At the time of subgrade inspection the following was observed:

- Subgrade preparation involved stripping the site of topsoil, vegetation and organic matter to a depth of approximately 200mm below existing levels.
- The site was cleared of all trees and stumps to the extent necessary for the fill placement to proceed
- The roots of all trees and any debris was removed from site prior to any fill placement

The sub-grade area was then proof-rolled to confirm it was capable of withstanding test rolling without visible deformation or springing and any areas observed to be soft or otherwise unsuitable were rectified. The sub-grade was watered and scarified prior to fill placement to aid layer bonding.

#### 3.2 Fill Placement

The contractor was observed to have suitable construction equipment and plant available on-site during the construction period for use in the fill placement.

All fill was placed in layers of thicknesses not exceeding 300mm. At the completion of a placed layer, compaction testing was performed to confirm appropriate compaction had been achieved and supported the observations made. It should be noted that the compaction tests are representative samples of the fill placed and support the visual assessment of the works completed. Each house lot does not necessarily require a compaction test to have been conducted within the house allotment but may have been verified by testing conducted within up to a 2500m<sup>2</sup> area of the house lot.

Final fill placement levels were verified against design level by others. For the purposes of this report, it was observed that finished levels were in accordance with levels marked on site by survey markers.

The final 300mm of fill placed across the site was placed as a topsoil layer or growing medium and should be considered as non-structural, as it was placed in an uncontrolled manner, as allowed by specifications and placement of the final 300mm of fill was not observed by the GITA.

### 4 Construction Verification

Compaction Verification testing is summarized in a detailed test register with test certificates attached provided in Appendix 2: *Compaction Test Register and Test Certificates*. A test location

plan (P241794D1, Appendix 1) providing a schematic of test locations across the extent of scope of works for every placed layer of fill is also documented.

A total of 22 density tests (Hilf method in accordance with 1289 5.7.1) were undertaken with 3 failed results. The contractor was notified of any failed tests and the failed areas were ripped, watered, compacted and then re-tested to confirm compliance with the specification. The results summarised in the compaction test register (Appendix 2) confirm that for every layer of fill placed in a specific work area, satisfactory testing was completed.

## 5 Statement of Compliance

The intention of this report is to provide a description of the earthworks construction for Stage 3A at 250 Wedge Road. For completed fill areas of greater than 300mm, and for works completed between 02/03/2024 and 30/08/2024, earthworks construction activities were conducted under the full time supervision of the Geotechnical Inspection and Testing Authority. Inspections and testing of the fill areas at this site indicate that both sub grade preparation and fill placement have been conducted in accordance with the specification. The earthworks construction for Stage 3A of 250 Wedge Road was observed to be constructed in compliance with the requirements of the Technical Specification.

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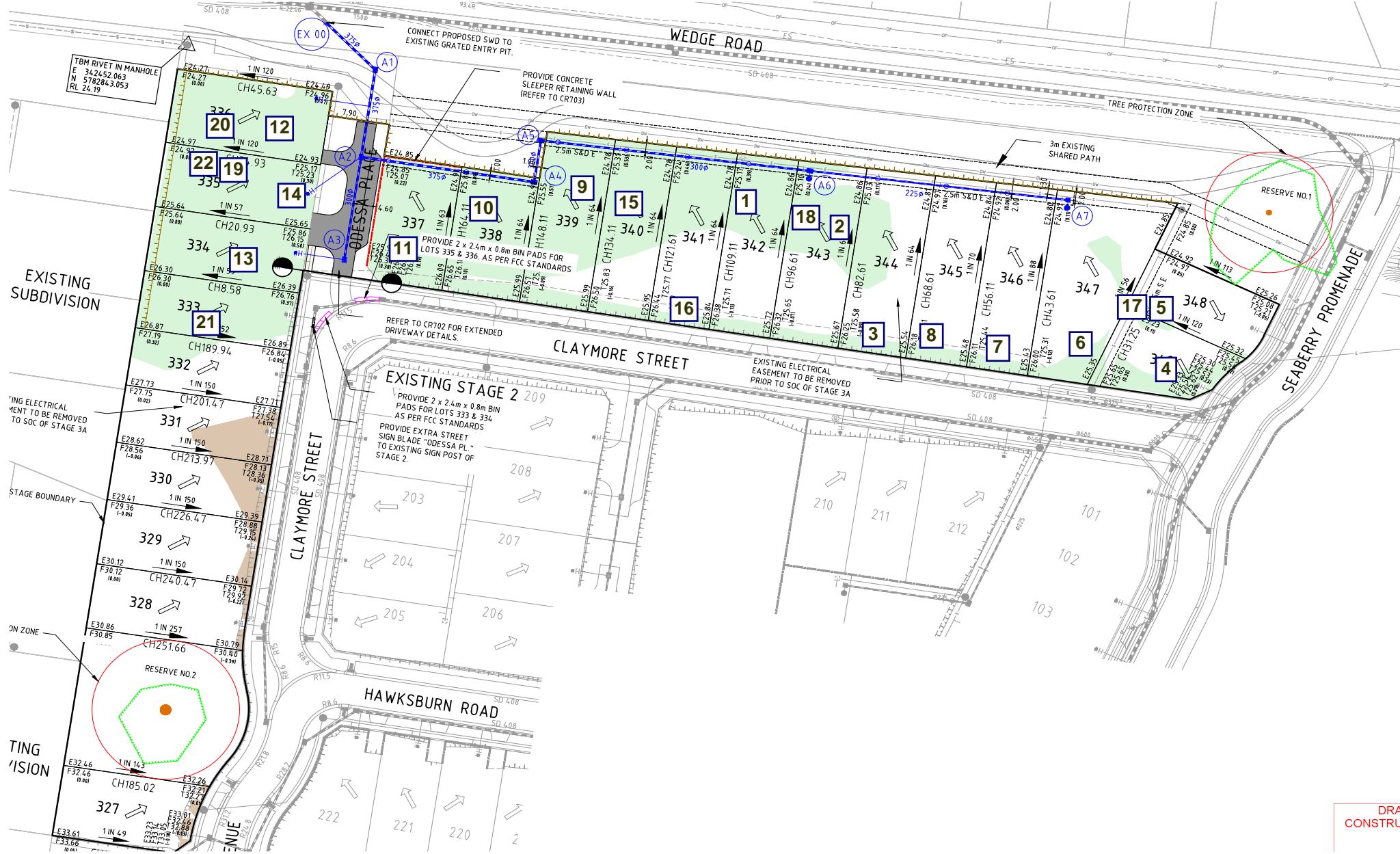
Your Worksite is Our Laboratory.

## Appendix 1: Test Location Plan

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47 National Ave  
Pakenham, VIC 3810

Our Laboratories  
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Deer Park 03 8348 5596  
Bibra Lake 08 9395 7220

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Page 1 of 2



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CONSTRUCTION



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**Our Laboratories**  
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Deer Park 03 8348 5596  
Bibra Lake 08 9395 7220

### Test Location Plan

not to scale

Client: Streetworks Pty Ltd

Project: 250 Wedge Road, Stage 3A

Reference: P241794 D1



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## **Appendix 2: Compaction Test Register and Test Certificates**



## Compaction Test Register

**Client:** Streetworks Pty Ltd                      **Project No:** P241794  
**Project:** 250 Wedge Road Stage 3A              **Specification:** 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
2/03/2024	1	Layer 1		100.5%	Pass	Lot 342	P241794-1
2/03/2024	2	Layer 1		92.0%	Fail	Lot 343	P241794-1
2/03/2024	3	Layer 1		95.5%	Pass	Lot 344	P241794-1
4/03/2024	4	Layer 1		101.5%	Pass	Lot 349	P241794-2
4/03/2024	5	Layer 1		87.5%	Fail	Lot 348	P241794-2
4/03/2024	6	Layer 1		101.0%	Pass	Lot 347	P241794-2
4/03/2024	7	Layer 1		96.0%	Pass	Lot 346	P241794-2
4/03/2024	8	Layer 1		99.0%	Pass	Lot 345	P241794-2
5/03/2024	9	FSL		102.0%	Pass	Lot 339	P241794-3
5/03/2024	10	FSL		99.0%	Pass	Lot 338	P241794-3
5/03/2024	11	FSL		101.0%	Pass	Lot 337	P241794-3
7/03/2024	12	Layer 1		97.0%	Pass	Lot 336	P241794-4
7/03/2024	13	Layer 1		97.0%	Pass	Lot 334	P241794-4
7/03/2024	14	Layer 2		98.0%	Pass	Lot 335	P241794-4
8/03/2024	15	FSL		99.5%	Pass	Lot 340	P241794-5
8/03/2024	16	FSL		101.0%	Pass	Lot 341	P241794-5
8/03/2024	17	FSL	Test #5	100.5%	Pass	Lot 348	P241794-5
8/03/2024	18	FSL	Test #2	103.5%	Pass	Lot 343	P241794-5
29/08/2024	19	Layer 1		92.5%	Fail	Lot 335	P241794-6
29/08/2024	20	Layer 2		95.5%	Pass	Lot 336	P241794-6
30/08/2024	21	FSL		106.0%	Pass	Lot 333	P241794-7
30/08/2024	22	Layer 1	Test #19	98.5%	Pass	Lot 335	P241794-7

# Material Test Report


**Report Number:** P241794-1  
**Issue Number:** 1  
**Date Issued:** 11/03/2024  
**Client:** Street Works Pty Ltd  
 45 Commercial Drive, Pakenham Vic 3810  
**Project Number:** P241794  
**Project Name:** Wedge Road Stage 3 Level One  
**Project Location:** Skye  
**Work Request:** 14658  
**Date Sampled:** 02/03/2024 7:45  
**Dates Tested:** 02/03/2024 - 04/03/2024  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95%  
**Site Selection:** Selected by Client  
**Location:** Wedge Road Stage 3 Level One  
**Material:** Sandy silty CLAY  
**Material Source:** Onsite - Stockpile



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 Approved Signatory: Chris Caulfield  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 15357

## Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	P24-14658A	P24-14658B	P24-14658C
Sample Number	1	2	3
Test Number	02/03/2024	02/03/2024	02/03/2024
Date Tested	**	**	**
Time Tested	Lot 342	Lot 343	Lot 344
Test Request #/Location	Layer 1	Layer 1	Layer 1
Layer / Reduced Level	300	300	300
Thickness of Layer (mm)	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY
Soil Description	275	275	275
Test Depth (mm)	19.0	19.0	19.0
Sieve used to determine oversize (mm)	0	0	0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	2.01	1.90	1.91
Field Wet Density (FWD) t/m <sup>3</sup>	16.7	16.1	19.7
Field Moisture Content %	1.72	1.64	1.60
Field Dry Density (FDD) t/m <sup>3</sup>	2.01	2.07	2.01
Peak Converted Wet Density t/m <sup>3</sup>	**	**	**
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	17.8	16.1	19.6
Adj. Optimum Moisture Content % (AS1289.5.4.1)	16.7	16.1	19.7
Adj. Field Moisture Content % (AS1289.5.4.1)	94.0	99.5	101.0
Moisture Ratio % (AS1289.5.4.1)	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	1.0	0.0	0.0
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	100.5	92.0	95.5
Hilf Density Ratio (%)	Standard	Standard	Standard
Compaction Method	**	**	**
Report Remarks			

### Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** P241794-2  
**Issue Number:** 1  
**Date Issued:** 11/03/2024  
**Client:** Street Works Pty Ltd  
 45 Commercial Drive, Pakenham Vic 3810  
**Project Number:** P241794  
**Project Name:** Wedge Road Stage 3 Level One  
**Project Location:** Skye  
**Work Request:** 14660  
**Date Sampled:** 04/03/2024 8:30  
**Dates Tested:** 04/03/2024 - 07/03/2024  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95%  
**Site Selection:** Selected by Client  
**Location:** Wedge Road Stage 3 Level One  
**Material:** Sandy silty CLAY  
**Material Source:** Onsite



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Approved Signatory: Chris Caulfield  
 Laboratory Manager

NATA Accredited Laboratory Number: 15357

## Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	P24-14660A	P24-14660B	P24-14660C	P24-14660D	P24-14660E
Test Number	4	5	6	7	8
Date Tested	04/03/2024	04/03/2024	04/03/2024	04/03/2024	04/03/2024
Time Tested	**	**	**	**	**
Test Request #/Location	Lot 349	Lot 348	Lot 347	Lot 346	Lot 345
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	0	0	0
Field Wet Density (FWD) t/m <sup>3</sup>	2.13	1.77	1.80	1.96	1.97
Field Moisture Content %	18.5	19.9	14.0	20.5	20.8
Field Dry Density (FDD) t/m <sup>3</sup>	1.79	1.48	1.58	1.63	1.63
Peak Converted Wet Density t/m <sup>3</sup>	2.09	2.03	1.79	2.04	1.99
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	21.0	19.1	19.6	20.4
Adj. Field Moisture Content % (AS1289.5.4.1)	18.5	19.9	14.0	20.5	20.8
Moisture Ratio % (AS1289.5.4.1)	99.5	94.5	73.5	104.5	102.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**
Moisture Variation (Wv) %	0.0	1.0	5.5	-1.0	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	<b>101.5</b>	<b>87.5</b>	<b>101.0</b>	<b>96.0</b>	<b>99.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>
Report Remarks	**	**	**	**	**

### Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** P241794-3  
**Issue Number:** 1  
**Date Issued:** 11/03/2024  
**Client:** Street Works Pty Ltd  
 45 Commercial Drive, Pakenham Vic 3810  
**Project Number:** P241794  
**Project Name:** Wedge Road Stage 3 Level One  
**Project Location:** Skye  
**Work Request:** 14672  
**Date Sampled:** 05/03/2024  
**Dates Tested:** 05/03/2024 - 05/03/2024  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95%  
**Site Selection:** Selected by Client  
**Location:** Wedge Road Stage 3 Level One  
**Material:** CLAY  
**Material Source:** Onsite



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## Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

	P24-14672A	P24-14672B	P24-14672C
Sample Number	P24-14672A	P24-14672B	P24-14672C
Test Number	9	10	11
Date Tested	05/03/2024	05/03/2024	05/03/2024
Time Tested	**	**	**
Test Request #/Location	Lot 339	Lot 338	Lot 337
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300
Soil Description	Sandy silty CLAY	Sandy silty CLAY	Sandy silty CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m <sup>3</sup>	2.05	2.06	2.00
Field Moisture Content %	12.8	15.1	10.3
Field Dry Density (FDD) t/m <sup>3</sup>	1.81	1.79	1.81
Peak Converted Wet Density t/m <sup>3</sup>	2.01	2.09	1.98
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	**	**
Adj. Field Moisture Content % (AS1289.5.4.1)	12.8	15.1	10.3
Moisture Ratio % (AS1289.5.4.1)	76.0	86.5	66.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	4.0	2.5	5.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	<b>102.0</b>	<b>99.0</b>	<b>101.0</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>
Report Remarks	**	**	**

### Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report


**Report Number:** P241794-4  
**Issue Number:** 1  
**Date Issued:** 17/03/2024  
**Client:** Street Works Pty Ltd  
 45 Commercial Drive, Pakenham Vic 3810  
**Project Number:** P241794  
**Project Name:** Wedge Road Stage 3 Level One  
**Project Location:** Skye  
**Work Request:** 14712  
**Date Sampled:** 07/03/2024  
**Dates Tested:** 07/03/2024 - 12/03/2024  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95%  
**Site Selection:** Selected by Client  
**Location:** Wedge Road Stage 3 Level One  
**Material:** CLAY  
**Material Source:** Onsite - Stockpile



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 Laboratory Manager  
 NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-14712A	P24-14712B	P24-14712C
Test Number	12	13	14
Date Tested	07/03/2024	07/03/2024	07/03/2024
Time Tested	**	**	**
Test Request #/Location	Lot 336	Lot 334	Lot 335
Layer / Reduced Level	Layer 1	Layer 1	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	0
Field Wet Density (FWD) t/m <sup>3</sup>	2.03	2.07	2.07
Field Moisture Content %	**	19.8	18.0
Field Dry Density (FDD) t/m <sup>3</sup>	**	1.73	1.75
Peak Converted Wet Density t/m <sup>3</sup>	2.09	2.13	2.11
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	**	19.6	17.4
Adj. Field Moisture Content % (AS1289.5.4.1)	**	19.8	18.0
Moisture Ratio % (AS1289.5.4.1)	**	101.0	103.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	-0.5	0.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.0	97.0	98.0
Compaction Method	Standard	Standard	Standard
Report Remarks	**	**	**

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** P241794-5  
**Issue Number:** 2 - This version supersedes all previous issues  
**Reissue Reason:**  
**Date Issued:** 17/09/2024  
**Client:** Street Works Pty Ltd  
 45 Commercial Drive, Pakenham Vic 3810  
**Project Number:** P241794  
**Project Name:** Wedge Road Stage 3A Level One  
**Project Location:** Skye  
**Work Request:** 14725  
**Date Sampled:** 08/03/2024  
**Dates Tested:** 08/03/2024 - 12/03/2024  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95%  
**Site Selection:** Selected by Client  
**Location:** Wedge Road Stage 3 Level One  
**Material:** CLAY  
**Material Source:** Onsite - Stockpile



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 Laboratory Manager  
 NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	P24-14725A	P24-14725B	P24-14725C	P24-14725D
Test Number	15	16	17	18
Date Tested	08/03/2024	08/03/2024	08/03/2024	08/03/2024
Time Tested	**	**	**	**
Test Request #/Location	Lot 340	Lot 341	Lot 348 (Retest of test 5)	Lot 343 (Retest of test 2)
Layer / Reduced Level	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300
Soil Description	CLAY	CLAY	Sandy silty CLAY	Sandy silty CLAY
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0	0
Field Wet Density (FWD) t/m <sup>3</sup>	2.06	2.07	1.95	2.09
Field Moisture Content %	17.8	23.5	16.2	17.3
Field Dry Density (FDD) t/m <sup>3</sup>	1.75	1.67	1.68	1.78
Peak Converted Wet Density t/m <sup>3</sup>	2.07	2.04	1.94	2.02
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	17.2	22.3	20.7	17.8
Adj. Field Moisture Content % (AS1289.5.4.1)	17.8	23.5	16.2	17.3
Moisture Ratio % (AS1289.5.4.1)	103.5	105.0	78.5	97.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) %	-0.5	-1.0	4.5	0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	<b>99.5</b>	<b>101.0</b>	<b>100.5</b>	<b>103.5</b>
Compaction Method	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>	<b>Standard</b>
Report Remarks	**	**	**	**

**Moisture Variation Note:**  
 Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report

**Report Number:** P241794-6  
**Issue Number:** 1  
**Date Issued:** 17/09/2024  
**Client:** Street Works Pty Ltd  
 45 Commercial Drive, Pakenham Vic 3810  
**Project Number:** P241794  
**Project Name:** Wedge Road Stage 3A Level One  
**Project Location:** Skye  
**Work Request:** 15943  
**Date Sampled:** 29/08/2024  
**Dates Tested:** 29/08/2024 - 30/08/2024  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95%  
**Site Selection:** Selected by Client  
**Location:** Wedge Road Stage 1  
**Material:** Silty Clay  
**Material Source:** Onsite



Pakenham Laboratory  
 47 National Avenue Pakenham VIC 3810  
 Phone: (03) 9769 5799  
 Email: ccaulfield@terrafirmalabs.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Chris Caulfield  
 Laboratory Manager

NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-15943A	P24-15943B	
Test Number	19	20	
Date Tested	29/08/2024	29/08/2024	
Time Tested	11:10	14:03	
Test Request #/Location	Lot 335	Lot 336	
Layer / Reduced Level	Layer 1	Layer 2	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Clay	Silty Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	
Field Wet Density (FWD) t/m <sup>3</sup>	1.92	2.01	
Field Moisture Content %	15.5	16.2	
Field Dry Density (FDD) t/m <sup>3</sup>	1.66	1.73	
Peak Converted Wet Density t/m <sup>3</sup>	2.08	2.10	
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	**	**	
Adj. Optimum Moisture Content % (AS1289.5.4.1)	16.3	16.9	
Adj. Field Moisture Content % (AS1289.5.4.1)	15.5	16.2	
Moisture Ratio % (AS1289.5.4.1)	95.0	96.0	
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	
Moisture Variation (Wv) %	1.0	0.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	<b>92.5</b>	<b>95.5</b>	
Compaction Method	<b>Standard</b>	<b>Standard</b>	
Report Remarks	**	**	

**Moisture Variation Note:**

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

# Material Test Report


**Report Number:** P241794-7  
**Issue Number:** 1  
**Date Issued:** 17/09/2024  
**Client:** Street Works Pty Ltd  
 45 Commercial Drive, Pakenham Vic 3810  
**Project Number:** P241794  
**Project Name:** Wedge Road Stage 3A Level One  
**Project Location:** Skye  
**Work Request:** 15966  
**Date Sampled:** 30/08/2024  
**Dates Tested:** 30/08/2024 - 04/09/2024  
**Sampling Method:** AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted  
**Specification:** 95%  
**Site Selection:** Selected by Client  
**Location:** Wedge Road Stage  
**Material:** Silty Clay  
**Material Source:** Onsite



Pakenham Laboratory  
 47 National Avenue Pakenham VIC 3810  
 Phone: (03) 9769 5799  
 Email: ccaulfield@terrafirmalabs.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



  
 Approved Signatory: Chris Caulfield  
 Laboratory Manager  
 NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	P24-15966A	P24-15966B	
Test Number	21	22	
Date Tested	30/08/2024	30/08/2024	
Time Tested	09:42	10:30	
Test Request #/Location	Lot 333	Lot 335 Retest #19	
Layer / Reduced Level	FSL	Layer 1	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Clay	Silty Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	4	8	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	
Field Wet Density (FWD) t/m <sup>3</sup>	2.16	1.98	
Field Moisture Content %	12.8	16.7	
Field Dry Density (FDD) t/m <sup>3</sup>	1.93	1.72	
Peak Converted Wet Density t/m <sup>3</sup>	**	**	
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	2.05	2.01	
Adj. Optimum Moisture Content % (AS1289.5.4.1)	14.0	17.7	
Adj. Field Moisture Content % (AS1289.5.4.1)	12.4	15.3	
Moisture Ratio % (AS1289.5.4.1)	**	**	
Adjusted Moisture Ratio % (AS1289.5.4.1)	88.5	86.5	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	1.5	2.5	
Hilf Density Ratio (%)	<b>106.0</b>	<b>98.5</b>	
Compaction Method	<b>Standard</b>	<b>Standard</b>	
Report Remarks	**	**	

## Moisture Variation Note:

Positive values = test is dry of OMC  
 Negative values = test is wet of OMC

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 332

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 332 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 333

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 333 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 334

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 334 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 335

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 335 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 336

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 336 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 337

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 337 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 338

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 338 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 339

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 339 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 340

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 340 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 341

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 341 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 342

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 342 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 343

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 343 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 344

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 344 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 345

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 345 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
- Compaction tests results documented in a level 1 GITA report verify the construction methods observed on site are satisfactory. Testing is conducted with random sampling across an area of work that is defined in the Australian Standard as a "lot" which is "an area of work that is essentially homogenous in relation to material type and moisture condition, rolling response and compaction technique, and which has been used for the assessment of the relative compaction of an area of work" (AS 3798-2007). As such, any test completed is representative of an area that may be up to 2500m<sup>2</sup> in area and across several house lots.

A GITA Inspection Verification report (Reference: P241794A) has been published on 18 Sep 2024 and documents that the allotment earthworks were carried out in accordance with AS3798 and in compliance with the project specification provided by the contractor.

For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 346

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

Lot 346 as defined in drawing Ref 320311-000CR200 0 from *Your Land Developments*, provided by the contractor, was included in the scope of works.

With regard to any fill placement please consider the following:

- Controlled fill was placed up to 200mm below finished surface level. The final 200mm material is considered top soil and organic matter and not controlled fill.
- Verification of finished surface level to design levels is outside of the scope of the GITA Inspection and Verification report.
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For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 347

*Terra Firma Laboratories was engaged by Streetworks Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for 250 Wedge Road, Stage 3A, Skye in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.*

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For and on behalf of

**Terra Firma Laboratories**



C Caulfield  
Laboratory Manager

18 Sep 2024

TO WHOM IT MAY CONCERN

Re: 250 Wedge Road Stage 3A  
Skye  
Lot 348

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C Caulfield  
Laboratory Manager

18 Sep 2024

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Re: 250 Wedge Road Stage 3A  
Skye  
Lot 349

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C Caulfield  
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