

Tulloh St Estate Stage 2

GITA Inspection Verification Report

Prepared For:	Lojac Civil Pty Ltd
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Report Number	D251350A V1
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Version Release Date	14 Nov 2025
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Report Released By	Eranda Hippola
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Title	Laboratory Manager
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Signature	
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Table of Contents

1	Introduction.....	3
2	Scope of Work	3
2.1	Area of Work	3
2.2	Specification	3
2.3	Limitations	4
3	Construction Method	5
3.1	Subgrade Preparation	5
3.2	Fill Placement	5
4	Construction Verification.....	6
5	Statement of Compliance	6

Appendices

- Appendix 1 Test Location Plan
- Appendix 2 Compaction Test Register and Test Certificates

1 Introduction

Terra Firma Laboratories was engaged by Lojac Civil Pty Ltd as the Geotechnical Inspection and Testing Authority (GITA) to provide Level 1 supervision and testing works on the earthworks component for Tulloh St Estate Stage 2. This work was conducted over the period of 08/04/2025 to 28/05/2025.

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 LOT 201 To LOT 236, bounded by streets Craven Way, Macron Lane, Fratton Avenue, Hyde Park Crescent, Prenton Boulevard. 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 REEDS Consulting (Drawing Reference: 23862E/P1/2) and provided by Lojac Civil 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 Lojac Civil 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 1500m²), the minimum testing frequency is 1 test per layer per material type per 2500m² or 1 test per 500m³ 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 2500m² 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 200mm 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 200mm 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 (D251350D1, Appendix 1) providing a schematic of test locations across the extent of scope of works for every placed layer of fill is also documented.

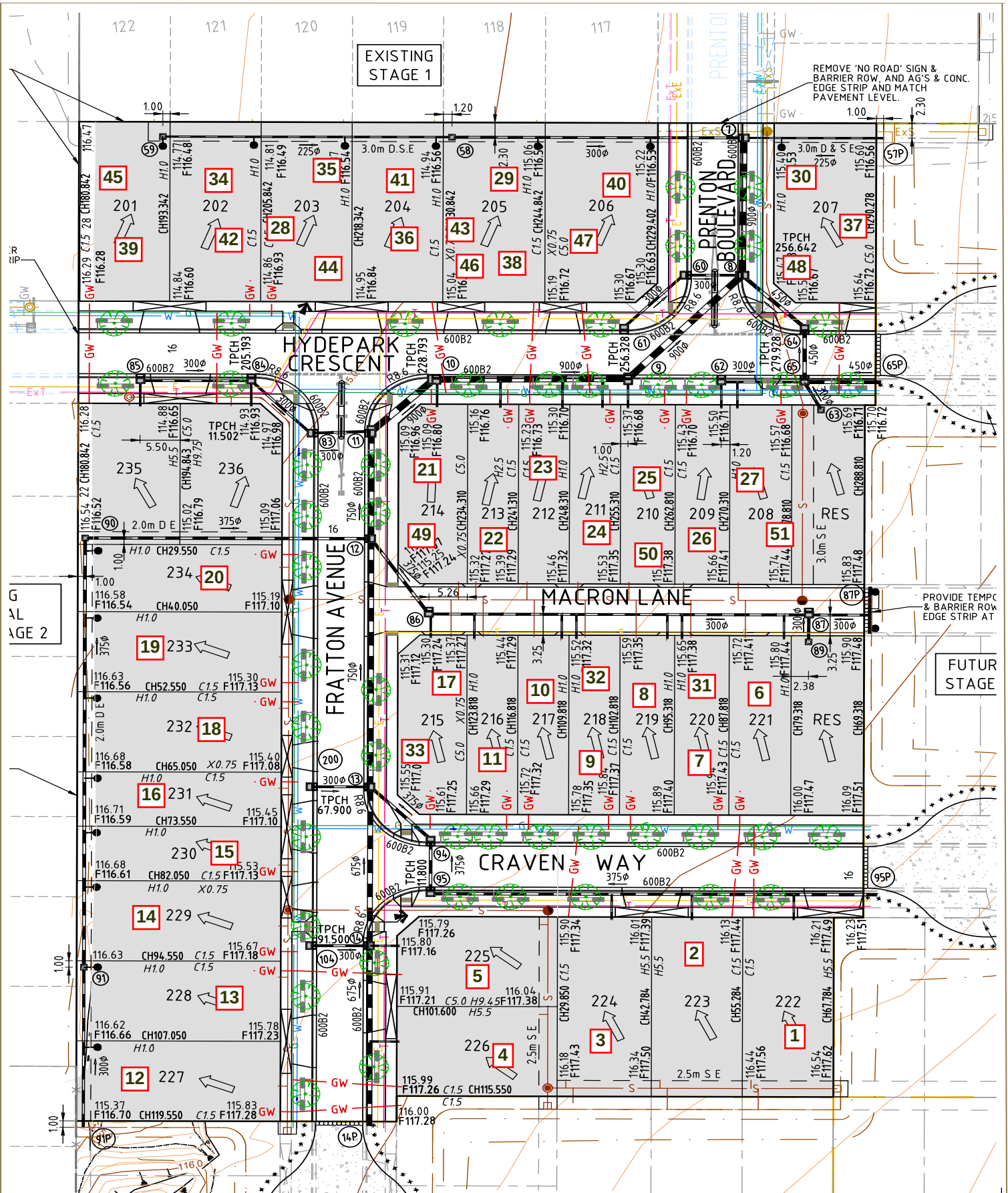
A total of 51 density tests (Hilf method in accordance with 1289 5.7.1) were undertaken with 0 failed results. The results summarised in the compaction test register (Appendix 2) confirm that for every layer of fill placed in a specific work area, satisfactory testing was completed.

5 Statement of Compliance

The intention of this report is to provide a description of the earthworks construction for Stage 2 at TULLOH ST ESTATE. For completed fill areas of greater than 300mm, and for works completed between 08/04/2025 and 28/05/2025, 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 2 of TULLOH ST ESTATE was observed to be constructed in compliance with the requirements of the Technical Specification.

Appendix 1: Test Location Plan

Appendix 2: Compaction Test Register and Test Certificates



 MGA 94 ZONE 55	DRAWN BY	S.SATHASIVAM	DESIGNED BY	J.SIGABALVU	 www.reedsconsulting.com.au Land 14, 101 Sherraton Street Melbourne Victoria 3000 p 03 9449 2000 Copyright © All Rights Reserved Reed	LAND SURVEYING CIVIL ENGINEERING PLANNING DEVELOPMENT CONSULTING	CITY OF MELTON		DRAWING No.	VERSION
	MELWAY	343, J7	CHECKED BY	-			43-57 ALFRED ROAD STRATH TULLOH		2R201	A
	DATUM	AHD	AUTHORISED BY	-			TULLOH ST ESTATE, PARCEL 1, STAGE 2		REFERENCE	
							LAYOUT PLAN		23862E/P1/2	



Our Head Office
47 National Ave
Pakenham, VIC 3860

Our Laboratories
Pakenham 03 9769 5799
Deer Park 03 8348 5596
Bibra Lake 08 9395 7220

Test Location Plan

not to scale

Client:	LOJAC CIVIL Pty Ltd
Project:	TULLOH ST ESTATE, STAGE 2
Reference:	D251350 D1



Compaction Test Register

Client: LOJAC CIVIL Pty Ltd
Project: TULLOH ST ESTATE Stage 2

Project No: D251350
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
8/04/2025	1	Layer 1		97.5%	Pass	Lot 222	D251350-1
8/04/2025	2	Layer 1		97.5%	Pass	Lot 223	D251350-1
8/04/2025	3	Layer 1		99.5%	Pass	Lot 224	D251350-1
8/04/2025	4	Layer 1		98.0%	Pass	Lot 226	D251350-1
8/04/2025	5	Layer 1		96.0%	Pass	Lot 225	D251350-1
8/04/2025	6	Layer 1		96.5%	Pass	Lot 221	D251350-1
8/04/2025	7	Layer 1		99.0%	Pass	Lot 220	D251350-1
8/04/2025	8	Layer 1		97.0%	Pass	Lot 219	D251350-1
8/04/2025	9	Layer 1		100.0%	Pass	Lot 218	D251350-1
8/04/2025	10	Layer 1		102.0%	Pass	Lot 217	D251350-1
8/04/2025	11	Layer 1		100.5%	Pass	Lot 216	D251350-1
9/04/2025	12	Layer 1		99.5%	Pass	Lot 227	D251350-2
9/04/2025	13	Layer 1		102.5%	Pass	Lot 228	D251350-2
9/04/2025	14	Layer 1		104.0%	Pass	Lot 229	D251350-2
9/04/2025	15	Layer 1		105.0%	Pass	Lot 230	D251350-2
9/04/2025	16	Layer 1		105.0%	Pass	Lot 231	D251350-2
9/04/2025	17	Layer 1		98.5%	Pass	Lot 215	D251350-2
9/04/2025	18	Layer 1		98.5%	Pass	Lot 232	D251350-2
9/04/2025	19	Layer 1		98.0%	Pass	Lot 233	D251350-2
9/04/2025	20	Layer 1		98.0%	Pass	Lot 234	D251350-2
10/04/2025	21	Layer 1		102.5%	Pass	Lot 214	D251350-3
10/04/2025	22	Layer 1		103.0%	Pass	Lot 213	D251350-3
10/04/2025	23	Layer 1		103.0%	Pass	Lot 212	D251350-3
10/04/2025	24	Layer 1		103.5%	Pass	Lot 211	D251350-3
10/04/2025	25	Layer 1		101.0%	Pass	Lot 210	D251350-3
10/04/2025	26	Layer 1		104.0%	Pass	Lot 209	D251350-3
10/04/2025	27	Layer 1		104.0%	Pass	Lot 208	D251350-3
11/04/2025	28	Layer 1		104.0%	Pass	Lot 203	D251350-4
11/04/2025	29	Layer 1		105.0%	Pass	Lot 205	D251350-4
11/04/2025	30	Layer 1		97.5%	Pass	Lot 207	D251350-4
14/04/2025	31	Layer 2		102.0%	Pass	Lot 220	D251350-5
14/04/2025	32	Layer 2		104.0%	Pass	Lot 218	D251350-5
14/04/2025	33	Layer 2		103.0%	Pass	Lot 215	D251350-5
6/05/2025	34	Layer 2		104.0%	Pass	Lot 202	D251350-6
6/05/2025	35	Layer 2		105.0%	Pass	Lot 203	D251350-6
6/05/2025	36	Layer 2		103.5%	Pass	Lot 204	D251350-6
22/05/2025	37	Layer 3		98.5%	Pass	Lot 207	D251350-7
22/05/2025	38	Layer 3		98.5%	Pass	Lot 205	D251350-7
22/05/2025	39	Layer 3		97.5%	Pass	Lot 201	D251350-7
23/05/2025	40	Layer 3		96.5%	Pass	Lot 206	D251350-8
23/05/2025	41	Layer 3		96.5%	Pass	Lot 204	D251350-8



Compaction Test Register

Client: LOJAC CIVIL Pty Ltd

Project No: D251350

Project: TULLOH ST ESTATE Stage 2

Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
23/05/2025	42	Layer 3		101.0%	Pass	Lot 202	D251350-8
26/05/2025	43	Layer 3		99.5%	Pass	Lot 205	D251350-9
26/05/2025	44	Layer 3		99.5%	Pass	Lot 203	D251350-9
26/05/2025	45	Layer 3		100.0%	Pass	Lot 201	D251350-9
27/05/2025	46	Layer 3		99.5%	Pass	Lot 205	D251350-10
27/05/2025	47	Layer 3		102.5%	Pass	Lot 206	D251350-10
27/05/2025	48	Layer 3		100.0%	Pass	Lot 207	D251350-10
28/05/2025	49	Layer 3		101.0%	Pass	Lot 214	D251350-11
28/05/2025	50	Layer 3		102.5%	Pass	Lot 210	D251350-11
28/05/2025	51	Layer 3		99.5%	Pass	Lot 208	D251350-11

Material Test Report

Report Number: D251350-1
Issue Number: 1
Date Issued: 10/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9280
Date Sampled: 08/04/2025
Dates Tested: 08/04/2025 - 10/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Material: Clay
Material Source: Imported



Deer Park Laboratory
 17 Walhalla Way Ravenhall VIC 3023
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Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Eranda Hippola
 Laboratory Manager

NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04

Sample Number	D25-9280A	D25-9280B	D25-9280C	D25-9280D	D25-9280E	D25-9280F
Test Number	1	2	3	4	5	6
Date Tested	08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025
Time Tested	**	**	**	**	**	**
Test Request #/Location	Lot 222	Lot 223	Lot 224	Lot 226	Lot 225	Lot 221
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Clay	Clay	Clay	Clay	Clay	Clay
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	7	9	1	4	11	6
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.84	1.84	1.87	1.84	1.82	1.82
Field Moisture Content %	20.0	18.8	16.1	16.8	22.1	20.3
Field Dry Density (FDD) t/m ³	1.55	1.57	1.62	1.58	1.52	1.52
Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.89	1.88	1.88	1.87	1.89	1.88
Adj. Optimum Moisture Content % (AS1289.5.4.1)	23.0	21.4	20.6	20.6	24.1	23.7
Adj. Field Moisture Content % (AS1289.5.4.1)	18.6	17.1	16.0	16.0	19.8	19.1
Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	80.5	80.0	77.5	78.0	82.0	81.0
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	4.5	4.0	4.5	4.5	4.0	4.5
Hilf Density Ratio (%)	97.5	97.5	99.5	98.0	96.0	96.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-1
Issue Number: 1
Date Issued: 10/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9280
Date Sampled: 08/04/2025
Dates Tested: 08/04/2025 - 10/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Material: Clay
Material Source: Imported



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Approved Signatory: Eranda Hippola
 Laboratory Manager

NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04						
Sample Number	D25-9280G	D25-9280H	D25-9280I	D25-9280J	D25-9280K	
Test Number	7	8	9	10	11	
Date Tested	08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025	
Time Tested	**	**	**	**	**	
Test Request #/Location	Lot 220	Lot 219	Lot 218	Lot 217	Lot 216	
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1	Layer 1	
Thickness of Layer (mm)	300	300	300	300	300	
Soil Description	Clay	Clay	Clay	Clay	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 (%)	6	14	4	11	11	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	**	**	
Field Wet Density (FWD) t/m ³	1.84	1.82	1.81	1.81	1.84	
Field Moisture Content %	18.3	19.4	15.9	14.2	14.8	
Field Dry Density (FDD) t/m ³	1.57	1.56	1.57	1.61	1.63	
Peak Converted Wet Density t/m ³	**	**	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	1.85	1.88	1.81	1.78	1.83	
Adj. Optimum Moisture Content % (AS1289.5.4.1)	21.6	21.2	19.7	16.7	17.3	
Adj. Field Moisture Content % (AS1289.5.4.1)	17.2	16.6	15.2	12.6	13.1	
Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**	
Adjusted Moisture Ratio % (AS1289.5.4.1)	79.5	78.5	77.0	75.5	76.0	
Moisture Variation (Wv) %	**	**	**	**	**	
Adjusted Moisture Variation %	4.5	4.5	5.0	4.5	4.5	
Hilf Density Ratio (%)	99.0	97.0	100.0	102.0	100.5	
Compaction Method	Standard	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-2
Issue Number: 1
Date Issued: 11/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9285
Date Sampled: 09/04/2025
Dates Tested: 09/04/2025 - 11/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Material: Clay
Material Source: Imported



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Approved Signatory: Eranda Hippola
 Laboratory Manager

NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04					
Sample Number	D25-9285A	D25-9285B	D25-9285C	D25-9285D	D25-9285E
Test Number	12	13	14	15	16
Date Tested	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025
Time Tested	15:00	15:00	15:00	15:00	15:00
Test Request #/Location	Lot 227	Lot 228	Lot 229	Lot 230	Lot 231
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Clay	Clay	Clay	Clay	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 (%)	12	8	7	4	5
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	1.87	1.94	1.94	1.96	1.98
Field Moisture Content %	21.5	22.0	22.5	20.7	23.2
Field Dry Density (FDD) t/m ³	1.58	1.61	1.61	1.64	1.63
Peak Converted Wet Density t/m ³	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.88	1.89	1.87	1.87	1.89
Adj. Optimum Moisture Content % (AS1289.5.4.1)	23.2	24.7	25.4	24.5	26.6
Adj. Field Moisture Content % (AS1289.5.4.1)	18.9	20.1	20.9	19.9	22.0
Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	81.5	81.5	82.5	81.0	82.5
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	4.0	4.5	4.5	4.5	4.5
Hilf Density Ratio (%)	99.5	102.5	104.0	105.0	105.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-2
Issue Number: 1
Date Issued: 11/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9285
Date Sampled: 09/04/2025
Dates Tested: 09/04/2025 - 11/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Material: Clay
Material Source: Imported



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Approved Signatory: Eranda Hippola
 Laboratory Manager

NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04					
Sample Number	D25-9285F	D25-9285G	D25-9285H	D25-9285I	
Test Number	17	18	19	20	
Date Tested	09/04/2025	09/04/2025	09/04/2025	09/04/2025	
Time Tested	15:00	15:00	15:00	15:00	
Test Request #/Location	Lot 215	Lot 232	Lot 233	Lot 234	
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1	
Thickness of Layer (mm)	300	300	300	300	
Soil Description	Clay	Clay	Clay	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 (%)	2	8	6	10	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	**	
Field Wet Density (FWD) t/m ³	1.83	1.88	1.85	1.89	
Field Moisture Content %	22.4	24.8	22.2	21.9	
Field Dry Density (FDD) t/m ³	1.50	1.53	1.53	1.58	
Peak Converted Wet Density t/m ³	**	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	1.86	1.91	1.89	1.93	
Adj. Optimum Moisture Content % (AS1289.5.4.1)	26.6	27.4	25.6	24.1	
Adj. Field Moisture Content % (AS1289.5.4.1)	21.8	22.7	20.9	19.8	
Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	
Adjusted Moisture Ratio % (AS1289.5.4.1)	82.0	83.0	81.5	82.0	
Moisture Variation (Wv) %	**	**	**	**	
Adjusted Moisture Variation %	4.5	4.5	4.5	4.0	
Hilf Density Ratio (%)	98.5	98.5	98.0	98.0	
Compaction Method	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-3
Issue Number: 1
Date Issued: 15/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9291
Date Sampled: 10/04/2025
Dates Tested: 10/04/2025 - 14/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: This level one is conducted in parallel with Stage 1 level one (WR:9292) .
 Level one day rates are ONLY applying for this level one (WR:9291).
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Material: Clay
Material Source: Imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04				
Sample Number	D25-9291A	D25-9291B	D25-9291C	D25-9291D
Test Number	21	22	23	24
Date Tested	10/04/2025	10/04/2025	10/04/2025	10/04/2025
Time Tested	15:00	15:00	15:00	15:00
Test Request #/Location	Lot 214	Lot 213	Lot 212	Lot 211
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	Layer 1
Thickness of Layer (mm)	300	300	300	300
Soil Description	Clay	Clay	Clay	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 (%)	6	2	5	5
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	**
Field Wet Density (FWD) t/m ³	1.96	1.93	1.96	1.82
Field Moisture Content %	20.5	13.5	20.8	14.1
Field Dry Density (FDD) t/m ³	1.64	1.70	1.64	1.60
Peak Converted Wet Density t/m ³	**	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.91	1.87	1.90	1.76
Adj. Optimum Moisture Content % (AS1289.5.4.1)	23.8	17.6	24.2	17.8
Adj. Field Moisture Content % (AS1289.5.4.1)	19.4	13.2	19.7	13.5
Moisture Ratio % (AS1289.5.4.1)	**	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	81.5	75.0	81.5	75.5
Moisture Variation (Wv) %	**	**	**	**
Adjusted Moisture Variation %	4.0	4.5	4.5	4.5
Hilf Density Ratio (%)	102.5	103.0	103.0	103.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report

Report Number: D251350-3
Issue Number: 1
Date Issued: 15/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9291
Date Sampled: 10/04/2025
Dates Tested: 10/04/2025 - 14/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: This level one is conducted in parallel with Stage 1 level one (WR:9292) .
 Level one day rates are ONLY applying for this level one (WR:9291).
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Material: Clay
Material Source: Imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04				
Sample Number	D25-9291E	D25-9291F	D25-9291G	
Test Number	25	26	27	
Date Tested	10/04/2025	10/04/2025	10/04/2025	
Time Tested	15:00	15:00	15:00	
Test Request #/Location	Lot 210	Lot 209	Lot 208	
Layer / Reduced Level	Layer 1	Layer 1	Layer 1	
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 (%)	10	6	8	
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**	
Field Wet Density (FWD) t/m ³	1.88	1.96	1.98	
Field Moisture Content %	13.4	14.5	14.3	
Field Dry Density (FDD) t/m ³	1.67	1.72	1.74	
Peak Converted Wet Density t/m ³	**	**	**	
Adjusted Peak Converted Wet Density t/m ³	1.85	1.88	1.90	
Adj. Optimum Moisture Content % (AS1289.5.4.1)	16.1	17.9	17.4	
Adj. Field Moisture Content % (AS1289.5.4.1)	12.0	13.7	13.2	
Moisture Ratio % (AS1289.5.4.1)	**	**	**	
Adjusted Moisture Ratio % (AS1289.5.4.1)	75.0	76.0	76.0	
Moisture Variation (Wv) %	**	**	**	
Adjusted Moisture Variation %	4.5	4.5	4.0	
Hilf Density Ratio (%)	101.0	104.0	104.0	
Compaction Method	Standard	Standard	Standard	
Remarks	**	**	**	

Moisture Variation Note:

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

Material Test Report

Report Number: D251350-4
Issue Number: 1
Date Issued: 16/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9298
Date Sampled: 11/04/2025
Dates Tested: 11/04/2025 - 15/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Material: Clay
Material Source: imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9298A	D25-9298B	D25-9298C
Test Number	28	29	30
Date Tested	11/04/2025	11/04/2025	11/04/2025
Time Tested	14:25	14:35	14:45
Test Request #/Location	Lot 203	Lot 205	Lot 207
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	8
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	**
Field Wet Density (FWD) t/m ³	1.98	1.97	1.84
Field Moisture Content %	14.5	17.0	18.3
Field Dry Density (FDD) t/m ³	1.72	1.68	1.57
Peak Converted Wet Density t/m ³	1.90	1.87	**
Adjusted Peak Converted Wet Density t/m ³	**	**	1.88
Adj. Optimum Moisture Content % (AS1289.5.4.1)	19.1	21.6	21.3
Adj. Field Moisture Content % (AS1289.5.4.1)	14.5	17.0	16.9
Moisture Ratio % (AS1289.5.4.1)	76.0	78.5	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	79.5
Moisture Variation (Wv) %	4.5	4.5	**
Adjusted Moisture Variation %	**	**	4.5
Hilf Density Ratio (%)	104.0	105.0	97.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-5
Issue Number: 1
Date Issued: 16/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9301
Date Sampled: 14/04/2025
Dates Tested: 14/04/2025 - 15/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Material: Clay
Material Source: imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9301A	D25-9301B	D25-9301C
Test Number	31	32	33
Date Tested	14/04/2025	14/04/2025	14/04/2025
Time Tested	15:00	15:10	15:20
Test Request #/Location	Lot 220	Lot 218	Lot 215
Layer / Reduced Level	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	Clay	Clay	Clay
Test Depth (mm)	2750	2750	2750
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	0
Field Wet Density (FWD) t/m ³	1.84	1.89	1.92
Field Moisture Content %	15.9	14.7	20.0
Field Dry Density (FDD) t/m ³	1.59	1.65	1.60
Peak Converted Wet Density t/m ³	1.81	1.82	1.86
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	20.5	19.3	24.8
Adj. Field Moisture Content % (AS1289.5.4.1)	15.9	14.7	20.0
Moisture Ratio % (AS1289.5.4.1)	77.5	76.5	81.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	4.5	4.5	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.0	104.0	103.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-6
Issue Number: 1
Date Issued: 13/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9386
Date Sampled: 06/05/2025 14:30
Dates Tested: 06/05/2025 - 12/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE 06/05/2025
Material: Silty Clay
Material Source: Imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	D25-9386A	D25-9386B	D25-9386C
Test Number	34	35	36
Date Tested	06/05/2025	06/05/2025	06/05/2025
Time Tested	14:30	14:40	14:50
Test Request #/Location	Lot 202	Lot 203	Lot 204
Layer / Reduced Level	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	10	8	5
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	1.95	1.88	1.85
Field Moisture Content %	20.9	20.3	21.9
Field Dry Density (FDD) t/m ³	1.64	1.58	1.53
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.87	1.79	1.79
Adj. Optimum Moisture Content % (AS1289.5.4.1)	23.1	23.0	25.5
Adj. Field Moisture Content % (AS1289.5.4.1)	18.8	18.7	20.8
Moisture Ratio % (AS1289.5.4.1)	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	81.5	81.0	81.5
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	4.0	4.5	5.0
Hilf Density Ratio (%)	104.0	105.0	103.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-7
Issue Number: 1
Date Issued: 28/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9511
Date Sampled: 22/05/2025 15:00
Dates Tested: 22/05/2025 - 27/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE 22/05/2025
Material: Silty Clay
Material Source: Imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9511A	D25-9511B	D25-9511C
Test Number	37	38	39
Date Tested	22/05/2025	22/05/2025	22/05/2025
Time Tested	15:00	15:10	15:20
Test Request #/Location	Lot 207	Lot 205	Lot 201
Layer / Reduced Level	Layer 3	Layer 3	Layer 3
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	7	0	16
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	**
Field Wet Density (FWD) t/m ³	1.86	1.78	1.78
Field Moisture Content %	23.0	15.7	20.4
Field Dry Density (FDD) t/m ³	1.53	1.54	1.52
Peak Converted Wet Density t/m ³	**	1.81	**
Adjusted Peak Converted Wet Density t/m ³	1.89	**	1.82
Adj. Optimum Moisture Content % (AS1289.5.4.1)	21.4	20.3	19.3
Adj. Field Moisture Content % (AS1289.5.4.1)	21.4	15.7	17.2
Moisture Ratio % (AS1289.5.4.1)	**	77.5	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	100.0	**	89.0
Moisture Variation (Wv) %	**	4.5	**
Adjusted Moisture Variation %	0.0	**	2.5
Hilf Density Ratio (%)	98.5	98.5	97.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-8
Issue Number: 1
Date Issued: 29/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9518
Date Sampled: 23/05/2025
Dates Tested: 23/05/2025 - 28/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE 23/05/2025
Material: Silty Clay
Material Source: imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9518A	D25-9518B	D25-9518C
Test Number	40	41	42
Date Tested	23/05/2025	23/05/2025	23/05/2025
Time Tested	15:00	15:10	15:20
Test Request #/Location	Lot 206	Lot 204	Lot 202
Layer / Reduced Level	Layer 3	Layer 3	Layer 3
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	7	10	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	0
Field Wet Density (FWD) t/m ³	1.73	1.83	1.85
Field Moisture Content %	8.8	19.7	22.6
Field Dry Density (FDD) t/m ³	1.60	1.56	1.51
Peak Converted Wet Density t/m ³	**	**	1.83
Adjusted Peak Converted Wet Density t/m ³	1.79	1.90	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	12.2	21.9	25.1
Adj. Field Moisture Content % (AS1289.5.4.1)	8.2	17.7	22.6
Moisture Ratio % (AS1289.5.4.1)	**	**	90.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	67.5	81.0	**
Moisture Variation (Wv) %	**	**	2.5
Adjusted Moisture Variation %	4.5	4.0	**
Hilf Density Ratio (%)	96.5	96.5	101.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-9
Issue Number: 1
Date Issued: 30/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9526
Date Sampled: 26/05/2025
Dates Tested: 26/05/2025 - 29/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE 26/05/2025
Material: Silty Clay
Material Source: Imported



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	D25-9526A	D25-9526B	D25-9526C
Test Number	43	44	45
Date Tested	26/05/2025	26/05/2025	26/05/2025
Time Tested	14:30	14:40	14:50
Test Request #/Location	Lot 205	Lot 203	Lot 201
Layer / Reduced Level	Layer 3	Layer 3	Layer 3
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Clay	Silty Clay	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)	0	0	0
Field Wet Density (FWD) t/m ³	1.84	1.88	1.89
Field Moisture Content %	19.8	18.7	22.5
Field Dry Density (FDD) t/m ³	1.54	1.58	1.54
Peak Converted Wet Density t/m ³	1.85	1.89	1.89
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	22.2	21.1	22.5
Adj. Field Moisture Content % (AS1289.5.4.1)	19.8	18.7	22.5
Moisture Ratio % (AS1289.5.4.1)	89.0	88.5	100.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	2.5	2.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	99.5	100.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-10
Issue Number: 1
Date Issued: 02/06/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9537
Date Sampled: 27/05/2025
Dates Tested: 27/05/2025 - 29/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE 27/05/2025
Material: Silty Clay
Material Source: Imported



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 Laboratory Manager

NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9537A	D25-9537B	D25-9537C
Test Number	46	47	48
Date Tested	27/05/2025	27/05/2025	27/05/2025
Time Tested	15:00	15:10	15:20
Test Request #/Location	Lot 205	Lot 206	Lot 207
Layer / Reduced Level	Layer 3	Layer 3	Layer 3
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	4	0	6
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	**
Field Wet Density (FWD) t/m ³	1.86	1.92	1.80
Field Moisture Content %	16.4	15.1	13.5
Field Dry Density (FDD) t/m ³	1.61	1.67	1.60
Peak Converted Wet Density t/m ³	**	1.87	**
Adjusted Peak Converted Wet Density t/m ³	1.87	**	1.80
Adj. Optimum Moisture Content % (AS1289.5.4.1)	20.1	19.8	17.0
Adj. Field Moisture Content % (AS1289.5.4.1)	15.7	15.1	12.7
Moisture Ratio % (AS1289.5.4.1)	**	76.5	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	78.0	**	75.0
Moisture Variation (Wv) %	**	4.5	**
Adjusted Moisture Variation %	4.5	**	4.5
Hilf Density Ratio (%)	99.5	102.5	100.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: D251350-11
Issue Number: 1
Date Issued: 05/06/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251350
Project Name: TULLOH ST ESTATE STAGE 2 - LEVEL ONE
Project Location: MELTON
Work Request: 9545
Date Sampled: 28/05/2025
Dates Tested: 28/05/2025 - 04/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: TULLOH ST ESTATE STAGE 2 - LEVEL ONE - 28/05/2025
Material: Silty Clay
Material Source: imported



Deer Park Laboratory
 17 Walhalla Way Ravenhall VIC 3023
 Phone: 0435 751 756
 Email: ehippola@terrafirmalabs.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Eranda Hippola
 Laboratory Manager

NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9545A	D25-9545B	D25-9545C
Test Number	49	50	51
Date Tested	28/05/2025	28/05/2025	28/05/2025
Time Tested	13:00	13:10	13:20
Test Request #/Location	Lot 214	Lot 210	Lot 208
Layer / Reduced Level	Layer 3	Layer 3	Layer 3
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Clay	Silty Clay	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	5
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	**
Field Wet Density (FWD) t/m ³	1.82	1.88	1.82
Field Moisture Content %	15.4	15.3	14.3
Field Dry Density (FDD) t/m ³	1.58	1.63	1.60
Peak Converted Wet Density t/m ³	1.80	1.84	**
Adjusted Peak Converted Wet Density t/m ³	**	**	1.83
Adj. Optimum Moisture Content % (AS1289.5.4.1)	20.0	19.9	17.9
Adj. Field Moisture Content % (AS1289.5.4.1)	15.4	15.3	13.6
Moisture Ratio % (AS1289.5.4.1)	77.0	77.0	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	75.5
Moisture Variation (Wv) %	4.5	4.5	**
Adjusted Moisture Variation %	**	**	4.5
Hilf Density Ratio (%)	101.0	102.5	99.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 201

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 201 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 202

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 202 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 203

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 203 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 204

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 204 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 205

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 205 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 206

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 206 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 207

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 207 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 208

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 208 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 209

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 209 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 210

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 210 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 211

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 211 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 212

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 212 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 213

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 213 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 214

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 214 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 215

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 215 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 216

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 216 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 217

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 217 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 218

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 218 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 219

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 219 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 220

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 220 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 221

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 221 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 222

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 222 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 223

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 223 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 224

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 224 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 225

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 225 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 226

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 226 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 227

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 227 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 228

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 228 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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For and on behalf of

Terra Firma Laboratories



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 229

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 229 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 230

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 230 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 231

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 231 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 232

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 232 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 233

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 233 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 234

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 234 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 235

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 235 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

A GITA Inspection Verification report (Reference: D251350A) has been published on 14 Nov 2025 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



Eranda Hippola
Laboratory Manager

14 Nov 2025

TO WHOM IT MAY CONCERN

Re: TULLOH ST ESTATE Stage 2
Cobblebank
LOT 236

Terra Firma Laboratories was engaged by LOJAC CIVIL Pty Ltd as the Geotechnical and Inspection Testing Authority (GITA) to provide Level 1 supervision and testing on the earthworks component for TULLOH ST ESTATE, Stage 2, Cobblebank in accordance with Australian Standard AS3798 Guidelines for Earthworks for Commercial and Residential Development.

Lot LOT 236 as defined in drawing Ref 23862E/P1/2 from *REEDS Consulting*, 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 2500m² in area and across several house lots.

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Eranda Hippola
Laboratory Manager