

Cobble Springs Estate Stage 4

GITA Inspection Verification Report

Prepared For:	Lojac Civil Pty Ltd
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Report Number	D251352A V1
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Version Release Date	21 Jan 2026
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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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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 Cobble Springs Estate Stage 4. This work was conducted over the period of 16/04/2025 to 17/09/2025.

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 22 -Lot 26, Lot 53 -Lot 62, Lot 86 - Lot 95 & Lot 107 - Lot 117, bounded by streets Pycantha Street, Mortlock Street, Glabra Street, Alba Street, Stonecrop Drive & Nutans Crescent.. 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 Colliers (Drawing Reference: 22-0097-04RD02) 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

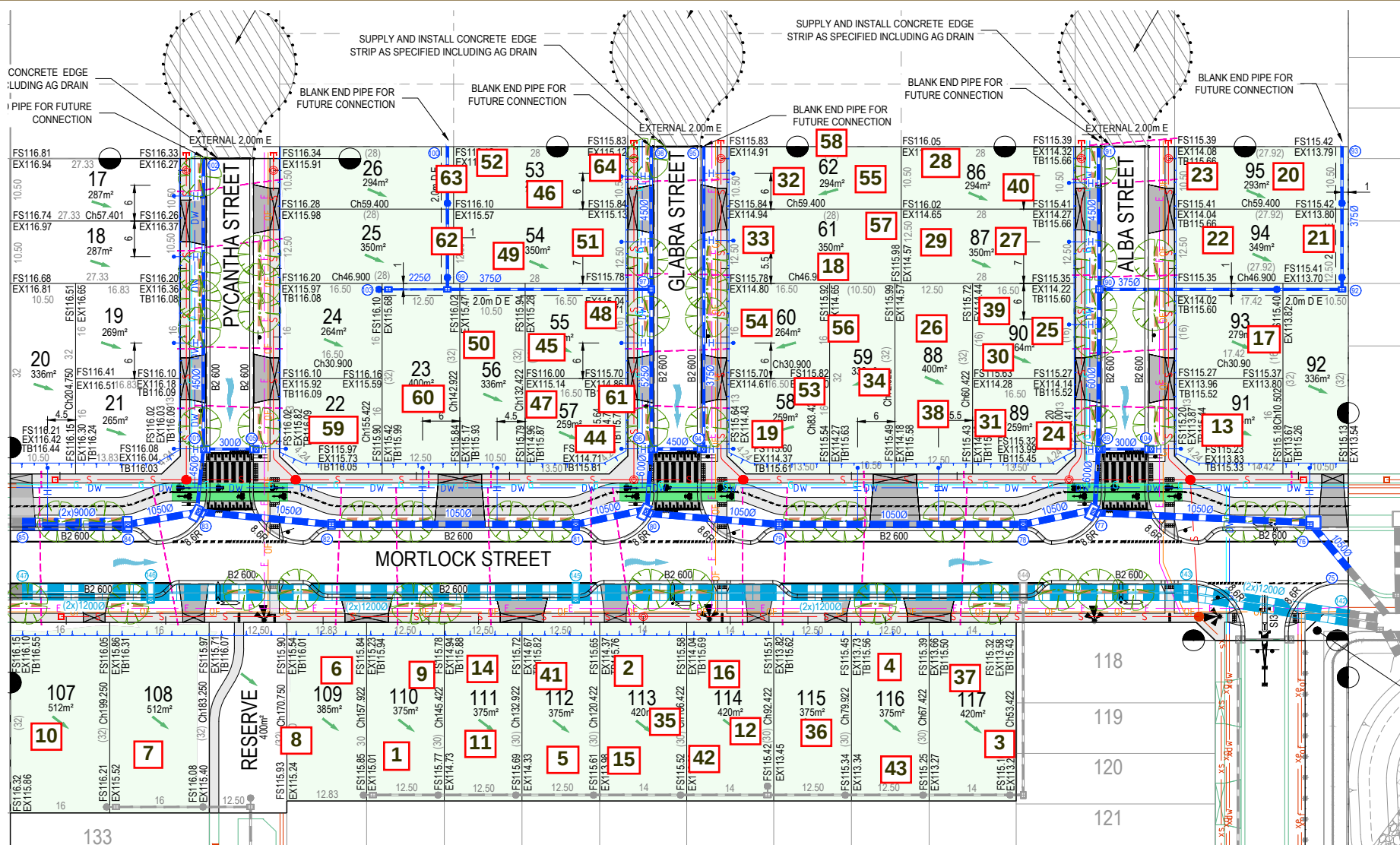
Compaction Verification testing is summarized in a detailed test register with test certificates attached provided in Appendix 2: *Compaction Test Register and Test Certificates*. A test location plan (D251352D1, Appendix 1) providing a schematic of test locations across the extent of scope of works for every placed layer of fill is also documented.

A total of 64 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 4 at Cobble Springs Estate. For completed fill areas of greater than 300mm, and for works completed between 16/04/2025 and 17/09/2025, 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 4 of Cobble Springs Estate was observed to be constructed in compliance with the requirements of the Technical Specification.

Appendix 1: Test Location Plan



LEGEND:

- EXISTING WATER MAIN
- EXISTING RECYCLED WATER MAIN
- EXISTING UNDERGROUND ELECTRICITY
- EXISTING OVERHEAD ELEC & POLE
- EXISTING TELSTRA & SERVICE PIT
- EXISTING OPTIC FIBRE
- EXISTING GAS MAIN
- EXISTING FENCE
- EXISTING SEWER & MANHOLE
- EXISTING SEWER RISING MAIN
- EXISTING STORMWATER DRAIN & PIT
- EXISTING HOUSE DRAIN
- EXISTING SURFACE CONTOUR MINOR
- EXISTING SURFACE CONTOUR MAJOR
- EXISTING TOP OF BATTER
- EXISTING TOP OF BATTER
- EXISTING KERB
- EXISTING FOOTPATH
- EXISTING FILL LEVEL
- EXISTING SURFACE LEVEL
- EXISTING BUILDING
- EXISTING SIGN AND POST
- EXISTING PERMANENT SURVEY MARK
- ROAD RESERVE
- EXISTING DRAINAGE
- EXISTING KERB & CHANNEL - TYPE
- SAWTOOTH PAVEMENT
- CONCRETE EDGE STRIP
- LIMIT OF ROAD WORKS
- ALLOTMENT NUMBER
- ROAD CHAINAGE
- ROAD CHAINAGE
- SET-OUT POINT
- FINISHED SURFACE CONTOUR MINOR
- FINISHED SURFACE CONTOUR MAJOR
- FINISHED SURFACE LEVEL
- TOPOGRAPHY OF BATTER LEVEL
- PROPOSED WATER MAIN
- PROPOSED RECYCLED WATER MAIN
- PROPOSED ELECTRICITY
- PROPOSED TELSTRA
- PROPOSED OPTIC FIBRE CONDUIT
- PROPOSED GAS MAIN
- PROPOSED SEWER
- PROPOSED SEWER RISING MAIN
- PROPOSED STORMWATER DRAIN & PIT
- PROPOSED HOUSE DRAIN
- PROPOSED CATCH DRAIN
- PROPOSED SWALE DRAIN
- 5 YEAR FLOW ARROW
- 100 YEAR FLOW ARROW
- TEMPORARY BENCH MARK (TBM)
- PROPOSED PERMANENT SURVEY MARK
- PROPOSED BOLLARD
- PROPOSED LIGHT & POLE
- PROPOSED ESTATE FENCE
- PROTECTIVE TREE FENCING
- PROPOSED TOP OF BATTER
- PROPOSED TOP OF BATTER
- RIDGE / CHANGE OF GRADE
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED ROCK RETAINING WALL
- EXISTING TREE TO BE RETAINED (SURVEYED CANOPY)
- EXISTING TREE TO BE REMOVED
- PARKING BAY/PAVED AREA
- EXCAVATION GREATER THAN 300mm
- FILLING GREATER THAN 300mm
- PAVEMENT TO BE REMOVED
- CONCRETE PAVEMENT
- ROCK BEACHING
- CRUSHED ROCK TURNAROUND

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



DESIGNED: 19.08.2022
CHECKED: 02.07.2024
AUTHORISED: 02.07.2024
MELBOURNE: 343 HE
POS NO.: PSB11070Y
STATUS:

**52-78 ALFRED ROAD COBBLEBANK
COBBLE SPRINGS - STAGE 4
CITY OF MELTON
DETAIL PLAN**



APPROVAL 22-0097-04RD02 SHEET NO. 2 OF 25 REV. D



Our Head Office
47 National Ave
Pakenham, VIC 3810

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: Cobble Springs Estate, Stage 4
Reference: D251352 D1

Appendix 2: Compaction Test Register and Test Certificates



Compaction Test Register

Client: Lojac Civil Pty Ltd
Project: Cobble Springs Estate Stage 4

Project No: D251352
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
16/04/2025	1	Layer 1		102.0%	Pass	Lot 110	D251352-1
16/04/2025	2	Layer 1		100.0%	Pass	Lot 113	D251352-1
16/04/2025	3	Layer 1		98.5%	Pass	Lot 117	D251352-1
17/04/2025	4	Layer 2		96.0%	Pass	Lot 116	D251352-2
17/04/2025	5	Layer 2		97.5%	Pass	Lot 112	D251352-2
17/04/2025	6	Layer 2		99.5%	Pass	Lot 109	D251352-2
1/05/2025	7	Layer 2		99.5%	Pass	Lot 108	D251352-3
1/05/2025	8	Layer 2		98.0%	Pass	Lot 109	D251352-3
1/05/2025	9	Layer 2		101.0%	Pass	Lot 110	D251352-3
5/05/2025	10	Layer 2		102.0%	Pass	Lot 107	D251352-4
5/05/2025	11	Layer 2		99.0%	Pass	Lot 111	D251352-4
5/05/2025	12	Layer 2		100.0%	Pass	Lot 114	D251352-4
5/05/2025	13	Layer 1		103.5%	Pass	Lot 91	D251352-4
6/05/2025	14	Layer 3		101.0%	Pass	Lot 110	D251352-5
6/05/2025	15	Layer 3		102.0%	Pass	Lot 113	D251352-5
6/05/2025	16	Layer 3		103.5%	Pass	Lot 114	D251352-5
7/05/2025	17	Layer 1		102.5%	Pass	Lot 93	D251352-6
7/05/2025	18	Layer 1		97.5%	Pass	Lot 61	D251352-6
7/05/2025	19	Layer 1		97.0%	Pass	Lot 58	D251352-6
8/05/2025	20	Layer 1		106.0%	Pass	Lot 92	D251352-7
8/05/2025	21	Layer 1		105.0%	Pass	Lot 94	D251352-7
8/05/2025	22	Layer 2		105.5%	Pass	Lot 94	D251352-7
8/05/2025	23	Layer 2		104.5%	Pass	Lot 95	D251352-7
8/05/2025	24	Layer 2		101.5%	Pass	Lot 89	D251352-7
8/05/2025	25	Layer 2		98.0%	Pass	Lot 90	D251352-7
9/05/2025	26	Layer 2		97.0%	Pass	Lot 88	D251352-8
9/05/2025	27	Layer 2		104.0%	Pass	Lot 87	D251352-8
9/05/2025	28	Layer 2		100.0%	Pass	Lot 86	D251352-8
12/05/2025	29	Layer 2		102.5%	Pass	Lot 87	D251352-9
12/05/2025	30	Layer 2		103.0%	Pass	Lot 90	D251352-9
12/05/2025	31	Layer 2		102.5%	Pass	Lot 89	D251352-9
13/05/2025	32	Layer 2		95.0%	Pass	Lot 62	D251352-10
13/05/2025	33	Layer 2		103.5%	Pass	Lot 61	D251352-10
13/05/2025	34	Layer 2		100.0%	Pass	Lot 59	D251352-10
15/05/2025	35	Layer 3		98.5%	Pass	Lot 113	D251352-11
15/05/2025	36	Layer 3		102.0%	Pass	Lot 115	D251352-11
15/05/2025	37	Layer 3		96.0%	Pass	Lot 117	D251352-11
16/05/2025	38	Layer 3		97.0%	Pass	Lot 88	D251352-12
16/05/2025	39	Layer 3		96.0%	Pass	Lot 90	D251352-12
16/05/2025	40	Layer 3		96.5%	Pass	Lot 86	D251352-12
19/05/2025	41	Layer 2		99.5%	Pass	Lot 112	D251352-13



Compaction Test Register

Client: Lojac Civil Pty Ltd
Project: Cobble Springs Estate Stage 4

Project No: D251352
Specification: 95%

Date:	Test No:	Layer:	Retest of:	Density:	Pass/Fail:	Lot No:	Report No:
19/05/2025	42	Layer 2		97.0%	Pass	Lot 114	D251352-13
19/05/2025	43	Layer 2		99.0%	Pass	Lot 116	D251352-13
20/05/2025	44	Layer 1		98.0%	Pass	Lot 57	D251352-14
20/05/2025	45	Layer 1		99.0%	Pass	Lot 55	D251352-14
20/05/2025	46	Layer 1		99.0%	Pass	Lot 53	D251352-14
2/06/2025	47	Layer 1		102.5%	Pass	Lot 57	D251352-15
2/06/2025	48	Layer 1		96.0%	Pass	Lot 56	D251352-15
2/06/2025	49	Layer 1		101.0%	Pass	Lot 54	D251352-15
3/06/2025	50	Layer 1		95.5%	Pass	Lot 56	D251352-16
3/06/2025	51	Layer 1		95.5%	Pass	Lot 54	D251352-16
3/06/2025	52	Layer 1		96.0%	Pass	Lot 53	D251352-16
4/06/2025	53	Layer 3		95.5%	Pass	Lot 58	D251352-17
4/06/2025	54	Layer 3		97.5%	Pass	Lot 60	D251352-17
4/06/2025	55	Layer 3		97.5%	Pass	Lot 62	D251352-17
5/06/2025	56	Layer 3		97.5%	Pass	Lot 59	D251352-18
5/06/2025	57	Layer 3		96.0%	Pass	Lot 61	D251352-18
5/06/2025	58	Layer 3		97.0%	Pass	Lot 62	D251352-18
12/09/2025	59	Layer 2		101.0%	Pass	Lot 22	D251352-19
12/09/2025	60	Layer 2		101.0%	Pass	Lot 23	D251352-19
12/09/2025	61	Layer 2		102.0%	Pass	Lot 57	D251352-19
17/09/2025	62	Layer 2		99.0%	Pass	Lot 54	D251352-20
17/09/2025	63	Layer 2		98.5%	Pass	Lot 53	D251352-20
17/09/2025	64	Layer 2		100.0%	Pass	Lot 53	D251352-20

Material Test Report

Report Number: D251352-1
Issue Number: 1
Date Issued: 28/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Contact: Craig
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9319
Date Sampled: 16/04/2025
Dates Tested: 16/04/2025 - 17/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One
Material: Silty Clay
Material Source: On Site



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	D25-9319A	D25-9319B	D25-9319C
Test Number	1	2	3
Date Tested	16/04/2025	16/04/2025	16/04/2025
Time Tested	15:00	15:10	15:20
Test Request #/Location	Lot 110	Lot 113	Lot 117
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 (%)	4	4	3
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	1.96	2.06	1.88
Field Moisture Content %	17.8	20.2	27.0
Field Dry Density (FDD) t/m ³	1.68	1.73	1.49
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.93	2.06	1.90
Adj. Optimum Moisture Content % (AS1289.5.4.1)	19.3	21.8	28.5
Adj. Field Moisture Content % (AS1289.5.4.1)	17.0	19.5	26.0
Moisture Ratio % (AS1289.5.4.1)	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	88.0	89.5	91.5
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.5	2.0	2.5
Hilf Density Ratio (%)	102.0	100.0	98.5
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: D251352-2
Issue Number: 1
Date Issued: 29/04/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Contact: Craig
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9328
Date Sampled: 17/04/2025
Dates Tested: 17/04/2025 - 28/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Site Selection: Selected by Client
Location: Cobble Springs Estate Stage 4 - Level One
Material: Clay
Material Source: On Site



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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	D25-9328A	D25-9328B	D25-9328C
Test Number	4	5	6
Date Tested	17/04/2025	17/04/2025	17/04/2025
Time Tested	12:25	12:35	12:45
Test Request #/Location	Lot 116	Lot 112	Lot 109
Layer / Reduced Level	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	Clay	Clay	Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	3	0	4
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	**
Field Wet Density (FWD) t/m ³	1.82	1.80	1.88
Field Moisture Content %	20.8	21.0	29.6
Field Dry Density (FDD) t/m ³	1.51	1.49	1.46
Peak Converted Wet Density t/m ³	**	1.85	**
Adjusted Peak Converted Wet Density t/m ³	1.90	**	1.89
Adj. Optimum Moisture Content % (AS1289.5.4.1)	22.6	23.4	31.0
Adj. Field Moisture Content % (AS1289.5.4.1)	20.2	21.0	28.5
Moisture Ratio % (AS1289.5.4.1)	**	89.5	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	89.5	**	92.0
Moisture Variation (Wv) %	**	2.5	**
Adjusted Moisture Variation %	2.5	**	2.5
Hilf Density Ratio (%)	96.0	97.5	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

Material Test Report

Report Number: D251352-3
Issue Number: 1
Date Issued: 08/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9377
Date Sampled: 05/05/2025
Dates Tested: 05/05/2025 - 07/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Site Selection: Selected by Client
Location: Cobble Springs Estate Stage 4 - Level One
Material: Silty Clay
Material Source: On-Site



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	D25-9377A	D25-9377B	D25-9377C	D25-9377D
Test Number	10	11	12	13
Date Tested	05/05/2025	05/05/2025	05/05/2025	05/05/2025
Time Tested	14:57	14:57	14:57	14:57
Test Request #/Location	Lot 107	Lot 111	Lot 114	Lot 91
Layer / Reduced Level	Layer 2	Layer 2	Layer 2	Layer 1
Thickness of Layer (mm)	300	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0	0
Field Wet Density (FWD) t/m ³	1.85	1.88	1.83	1.89
Field Moisture Content %	25.3	22.8	22.0	27.3
Field Dry Density (FDD) t/m ³	1.48	1.53	1.50	1.48
Peak Converted Wet Density t/m ³	1.82	1.89	1.83	1.82
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	28.0	25.4	24.6	30.0
Adj. Field Moisture Content % (AS1289.5.4.1)	25.3	22.8	22.0	27.3
Moisture Ratio % (AS1289.5.4.1)	90.5	90.0	89.5	91.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**
Moisture Variation (Wv) %	2.5	2.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	102.0	99.0	100.0	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: D251352-4
Issue Number: 1
Date Issued: 13/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9387
Date Sampled: 06/05/2025 10:15
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: Cobble Springs Estate Stage 4 - Level One - 06 /05/2025
Material: Silty Clay
Material Source: On site



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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	D25-9387A	D25-9387B	D25-9387C
Test Number	14	15	16
Date Tested	06/05/2025	06/05/2025	06/05/2025
Time Tested	10:15	10:25	10:35
Test Request #/Location	Lot 110	Lot 113	Lot 114
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 (%)	5	5	2
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	1.81	1.89	1.90
Field Moisture Content %	11.3	14.4	16.8
Field Dry Density (FDD) t/m ³	1.63	1.66	1.64
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.79	1.85	1.84
Adj. Optimum Moisture Content % (AS1289.5.4.1)	15.1	18.0	20.8
Adj. Field Moisture Content % (AS1289.5.4.1)	10.8	13.7	16.4
Moisture Ratio % (AS1289.5.4.1)	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	71.5	75.5	78.5
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	4.5	4.5	4.5
Hilf Density Ratio (%)	101.0	102.0	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: D251352-5
Issue Number: 1
Date Issued: 13/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9357
Date Sampled: 01/05/2025
Dates Tested: 01/05/2025 - 09/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 01/05/2025
Material: Clay
Material Source: Onsite



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9357A	D25-9357B	D25-9357C
Test Number	7	8	9
Date Tested	01/05/2025	01/05/2025	01/05/2025
Time Tested	**	**	**
Test Request #/Location	Lot 108	Lot 109	Lot 110
Layer / Reduced Level	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	Clay	Clay	Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	4	7	10
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	1.88	1.85	1.87
Field Moisture Content %	16.2	15.1	16.7
Field Dry Density (FDD) t/m ³	1.63	1.63	1.63
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.89	1.89	1.86
Adj. Optimum Moisture Content % (AS1289.5.4.1)	20.0	18.3	19.2
Adj. Field Moisture Content % (AS1289.5.4.1)	15.6	14.0	15.0
Moisture Ratio % (AS1289.5.4.1)	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	78.0	76.5	78.0
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	4.5	4.5	4.5
Hilf Density Ratio (%)	99.5	98.0	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: D251352-6
Issue Number: 1
Date Issued: 14/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9395
Date Sampled: 07/05/2025
Dates Tested: 07/05/2025 - 13/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 07/05/2025
Material: Silty Clay
Material Source: On site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9395A	D25-9395B	D25-9395C
Test Number	17	18	19
Date Tested	07/05/2025	07/05/2025	07/05/2025
Time Tested	09:30	09:40	09:50
Test Request #/Location	Lot 93	Lot 61	Lot 58
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	8
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	**
Field Wet Density (FWD) t/m ³	1.93	1.70	1.82
Field Moisture Content %	24.1	24.1	19.6
Field Dry Density (FDD) t/m ³	1.57	1.37	1.54
Peak Converted Wet Density t/m ³	**	1.74	**
Adjusted Peak Converted Wet Density t/m ³	1.88	**	1.87
Adj. Optimum Moisture Content % (AS1289.5.4.1)	27.0	30.0	22.5
Adj. Field Moisture Content % (AS1289.5.4.1)	22.5	24.1	18.1
Moisture Ratio % (AS1289.5.4.1)	**	80.0	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	83.0	**	80.0
Moisture Variation (Wv) %	**	6.0	**
Adjusted Moisture Variation %	4.5	**	4.5
Hilf Density Ratio (%)	102.5	97.5	97.0
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: D251352-7
Issue Number: 1
Date Issued: 16/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9409
Date Sampled: 08/05/2025
Dates Tested: 08/05/2025 - 15/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 08/05/2025
Material: Silty Clay
Material Source: On site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04						
Sample Number	D25-9409A	D25-9409B	D25-9409C	D25-9409D	D25-9409E	D25-9409F
Test Number	20	21	22	23	24	25
Date Tested	08/05/2025	08/05/2025	08/05/2025	08/05/2025	08/05/2025	08/05/2025
Time Tested	10:30	10:30	10:30	10:30	10:30	10:30
Test Request #/Location	Lot 92	Lot 94	Lot 94	Lot 95	Lot 89	Lot 90
Layer / Reduced Level	Layer 1	Layer 1	Layer 2	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty 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 (%)	0	0	0	0	0	10
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0	0	0	**
Field Wet Density (FWD) t/m ³	1.80	1.85	2.01	1.79	1.79	1.81
Field Moisture Content %	21.5	22.5	26.0	24.1	25.6	24.0
Field Dry Density (FDD) t/m ³	1.48	1.51	1.59	1.44	1.42	1.49
Peak Converted Wet Density t/m ³	1.70	1.76	1.91	1.71	1.76	**
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	1.85
Adj. Optimum Moisture Content % (AS1289.5.4.1)	26.3	27.5	28.6	29.1	28.1	25.8
Adj. Field Moisture Content % (AS1289.5.4.1)	21.5	22.5	26.0	24.1	25.6	21.5
Moisture Ratio % (AS1289.5.4.1)	81.5	82.0	91.0	82.5	91.0	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**	**	**	83.5
Moisture Variation (Wv) %	5.0	5.0	2.5	5.0	2.5	**
Adjusted Moisture Variation %	**	**	**	**	**	4.0
Hilf Density Ratio (%)	106.0	105.0	105.5	104.5	101.5	98.0
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: D251352-8
Issue Number: 1
Date Issued: 16/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9420
Date Sampled: 09/05/2025
Dates Tested: 09/05/2025 - 15/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 09/05/2025
Material: Silty Clay
Material Source: On site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9420A	D25-9420B	D25-9420C
Test Number	26	27	28
Date Tested	09/05/2025	09/05/2025	09/05/2025
Time Tested	09:45	09:55	10:05
Test Request #/Location	Lot 88	Lot 87	Lot 86
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 (%)	4	3	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	0
Field Wet Density (FWD) t/m ³	1.80	1.84	1.79
Field Moisture Content %	22.7	24.5	-9.9
Field Dry Density (FDD) t/m ³	1.47	1.49	1.98
Peak Converted Wet Density t/m ³	**	**	1.79
Adjusted Peak Converted Wet Density t/m ³	1.86	1.77	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	24.3	28.4	-6.3
Adj. Field Moisture Content % (AS1289.5.4.1)	21.9	23.6	-9.9
Moisture Ratio % (AS1289.5.4.1)	**	**	157.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	90.5	83.5	**
Moisture Variation (Wv) %	**	**	5.0
Adjusted Moisture Variation %	2.5	4.5	**
Hilf Density Ratio (%)	97.0	104.0	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: D251352-9
Issue Number: 1
Date Issued: 20/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9429
Date Sampled: 12/05/2025 9:15
Dates Tested: 12/05/2025 - 19/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Site Selection: Selected by Client
Location: Cobble Springs Estate Stage 4 - Level One - 12/05/2025
Material: Clay
Material Source: On-site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9429A	D25-9429B	D25-9429C
Test Number	29	30	31
Date Tested	12/05/2025	12/05/2025	12/05/2025
Time Tested	09:15	09:30	09:45
Test Request #/Location	Lot 87	Lot 90	Lot 89
Layer / Reduced Level	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	Clay	Clay	Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	11	19	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	0
Field Wet Density (FWD) t/m ³	1.89	1.98	2.00
Field Moisture Content %	14.7	19.0	20.9
Field Dry Density (FDD) t/m ³	1.67	1.71	1.66
Peak Converted Wet Density t/m ³	**	**	1.95
Adjusted Peak Converted Wet Density t/m ³	1.84	1.92	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	16.9	19.4	25.7
Adj. Field Moisture Content % (AS1289.5.4.1)	13.0	15.5	20.9
Moisture Ratio % (AS1289.5.4.1)	**	**	81.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	77.0	80.0	**
Moisture Variation (Wv) %	**	**	4.5
Adjusted Moisture Variation %	4.0	4.0	**
Hilf Density Ratio (%)	102.5	103.0	102.5
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: D251352-10
Issue Number: 1
Date Issued: 21/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9440
Date Sampled: 13/05/2025
Dates Tested: 13/05/2025 - 20/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 13/05/2025
Material: Silty Clay
Material Source: on site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9440A	D25-9440B	D25-9440C
Test Number	32	33	34
Date Tested	13/05/2025	13/05/2025	13/05/2025
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 62	Lot 61	Lot 59
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 (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) t/m ³	1.79	1.88	1.82
Field Moisture Content %	17.6	22.1	24.4
Field Dry Density (FDD) t/m ³	1.52	1.54	1.46
Peak Converted Wet Density t/m ³	1.88	1.81	1.82
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	20.0	24.6	27.1
Adj. Field Moisture Content % (AS1289.5.4.1)	17.6	22.1	24.4
Moisture Ratio % (AS1289.5.4.1)	88.0	89.5	90.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	2.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	95.0	103.5	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: D251352-11
Issue Number: 1
Date Issued: 23/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9448
Date Sampled: 15/05/2025
Dates Tested: 15/05/2025 - 22/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 15/05/2025
Material: Silty Clay
Material Source: on site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9448A	D25-9448B	D25-9448C
Test Number	35	36	37
Date Tested	15/05/2025	15/05/2025	15/05/2025
Time Tested	11:45	11:55	12:05
Test Request #/Location	Lot 113	Lot 115	Lot 117
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	1.71	1.75	1.71
Field Moisture Content %	22.0	17.3	16.0
Field Dry Density (FDD) t/m ³	1.40	1.49	1.48
Peak Converted Wet Density t/m ³	1.74	1.71	1.78
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	26.8	22.2	20.6
Adj. Field Moisture Content % (AS1289.5.4.1)	22.0	17.3	16.0
Moisture Ratio % (AS1289.5.4.1)	82.0	78.0	78.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	5.0	5.5	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.5	102.0	96.0
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: D251352-12
Issue Number: 1
Date Issued: 26/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9473
Date Sampled: 16/05/2025
Dates Tested: 16/05/2025 - 23/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 16/05/2025
Material: Silty Clay
Material Source: on site



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NATA Accredited Laboratory Number: 15357

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9473A	D25-9473B	D25-9473C
Test Number	38	39	40
Date Tested	16/05/2025	16/05/2025	16/05/2025
Time Tested	09:50	10:00	10:10
Test Request #/Location	Lot 88	Lot 90	Lot 86
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	7
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	**
Field Wet Density (FWD) t/m ³	1.78	1.80	1.72
Field Moisture Content %	17.7	23.5	21.7
Field Dry Density (FDD) t/m ³	1.51	1.46	1.44
Peak Converted Wet Density t/m ³	1.83	1.88	**
Adjusted Peak Converted Wet Density t/m ³	**	**	1.79
Adj. Optimum Moisture Content % (AS1289.5.4.1)	22.3	26.0	22.3
Adj. Field Moisture Content % (AS1289.5.4.1)	17.7	23.5	20.1
Moisture Ratio % (AS1289.5.4.1)	79.0	90.5	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	90.0
Moisture Variation (Wv) %	4.5	2.5	**
Adjusted Moisture Variation %	**	**	2.5
Hilf Density Ratio (%)	97.0	96.0	96.5
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: D251352-13
Issue Number: 1
Date Issued: 27/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9483
Date Sampled: 19/05/2025 9:00
Dates Tested: 19/05/2025 - 26/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 19/05/2025
Material: Silty Clay
Material Source: On site



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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	D25-9483A	D25-9483B	D25-9483C
Test Number	41	42	43
Date Tested	19/05/2025	19/05/2025	19/05/2025
Time Tested	09:00	09:10	09:20
Test Request #/Location	Lot 112	Lot 114	Lot 116
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 (%)	5	0	5
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	0	**
Field Wet Density (FWD) t/m ³	1.78	1.87	1.79
Field Moisture Content %	18.1	20.5	21.3
Field Dry Density (FDD) t/m ³	1.52	1.55	1.49
Peak Converted Wet Density t/m ³	**	1.93	**
Adjusted Peak Converted Wet Density t/m ³	1.80	**	1.80
Adj. Optimum Moisture Content % (AS1289.5.4.1)	21.8	23.0	22.7
Adj. Field Moisture Content % (AS1289.5.4.1)	17.2	20.5	20.2
Moisture Ratio % (AS1289.5.4.1)	**	89.5	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	79.0	**	89.0
Moisture Variation (Wv) %	**	2.5	**
Adjusted Moisture Variation %	4.5	**	2.5
Hilf Density Ratio (%)	99.5	97.0	99.0
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: D251352-14
Issue Number: 1
Date Issued: 28/05/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9487
Date Sampled: 20/05/2025 13:45
Dates Tested: 20/05/2025 - 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: Cobble Springs Estate Stage 4 - Level One - 20/05/2025
Material: Silty Clay
Material Source: On site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9487A	D25-9487B	D25-9487C
Test Number	44	45	46
Date Tested	20/05/2025	20/05/2025	20/05/2025
Time Tested	13:45	13:55	14:05
Test Request #/Location	Lot 57	Lot 55	Lot 53
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	1.70	1.71	1.70
Field Moisture Content %	23.7	24.3	22.9
Field Dry Density (FDD) t/m ³	1.38	1.37	1.38
Peak Converted Wet Density t/m ³	1.74	1.72	1.72
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	28.8	29.3	27.9
Adj. Field Moisture Content % (AS1289.5.4.1)	23.7	24.3	22.9
Moisture Ratio % (AS1289.5.4.1)	82.5	83.0	82.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	5.0	5.0	5.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.0	99.0	99.0
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: D251352-15
Issue Number: 1
Date Issued: 12/06/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9586
Date Sampled: 02/06/2025
Dates Tested: 02/06/2025 - 11/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 02/06/2025
Material: Silty Clay
Material Source: On Site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9586A	D25-9586B	D25-9586C
Test Number	47	48	49
Date Tested	02/06/2025	02/06/2025	02/06/2025
Time Tested	15:00	15:10	15:20
Test Request #/Location	Lot 57	Lot 56	Lot 54
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	7	5
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	**	**
Field Wet Density (FWD) t/m ³	1.89	1.82	1.87
Field Moisture Content %	22.7	18.2	18.6
Field Dry Density (FDD) t/m ³	1.54	1.56	1.59
Peak Converted Wet Density t/m ³	1.85	**	**
Adjusted Peak Converted Wet Density t/m ³	**	1.90	1.85
Adj. Optimum Moisture Content % (AS1289.5.4.1)	25.2	19.3	22.2
Adj. Field Moisture Content % (AS1289.5.4.1)	22.7	17.0	17.6
Moisture Ratio % (AS1289.5.4.1)	90.0	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	88.0	79.5
Moisture Variation (Wv) %	2.5	**	**
Adjusted Moisture Variation %	**	2.5	4.5
Hilf Density Ratio (%)	102.5	96.0	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: D251352-16
Issue Number: 1
Date Issued: 12/06/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9594
Date Sampled: 03/06/2025
Dates Tested: 03/06/2025 - 11/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 03/06/2025
Material: Silty Clay
Material Source: on site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9594A	D25-9594B	D25-9594C
Test Number	50	51	52
Date Tested	03/06/2025	03/06/2025	03/06/2025
Time Tested	13:30	13:40	13:50
Test Request #/Location	Lot 56	Lot 54	Lot 53
Layer / Reduced Level	Layer 1	Layer 1	Layer 1
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	7	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	**	0
Field Wet Density (FWD) t/m ³	1.78	1.80	1.80
Field Moisture Content %	18.4	17.0	20.4
Field Dry Density (FDD) t/m ³	1.50	1.55	1.50
Peak Converted Wet Density t/m ³	1.86	**	1.88
Adjusted Peak Converted Wet Density t/m ³	**	1.88	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	20.8	18.0	22.8
Adj. Field Moisture Content % (AS1289.5.4.1)	18.4	15.8	20.4
Moisture Ratio % (AS1289.5.4.1)	88.5	**	89.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	88.0	**
Moisture Variation (Wv) %	2.5	**	2.5
Adjusted Moisture Variation %	**	2.5	**
Hilf Density Ratio (%)	95.5	95.5	96.0
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: D251352-17
Issue Number: 1
Date Issued: 13/06/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9603
Date Sampled: 04/06/2025
Dates Tested: 04/06/2025 - 12/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 04/06/2025
Material: Silty Clay
Material Source: on site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9603A	D25-9603B	D25-9603C
Test Number	53	54	55
Date Tested	04/06/2025	04/06/2025	04/06/2025
Time Tested	13:30	13:40	13:50
Test Request #/Location	Lot 58	Lot 60	Lot 62
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 (%)	10	3	16
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	1.77	1.77	1.86
Field Moisture Content %	22.6	22.3	20.2
Field Dry Density (FDD) t/m ³	1.47	1.46	1.59
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.86	1.82	1.91
Adj. Optimum Moisture Content % (AS1289.5.4.1)	22.8	24.7	21.3
Adj. Field Moisture Content % (AS1289.5.4.1)	20.3	21.6	17.0
Moisture Ratio % (AS1289.5.4.1)	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	89.5	87.5	80.0
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.5	3.0	4.0
Hilf Density Ratio (%)	95.5	97.5	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: D251352-18
Issue Number: 1
Date Issued: 13/06/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 9608
Date Sampled: 05/06/2025 14:30
Dates Tested: 05/06/2025 - 12/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 05/06/2025
Material: Silty Clay
Material Source: on site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-9608A	D25-9608B	D25-9608C
Test Number	56	57	58
Date Tested	05/06/2025	05/06/2025	05/06/2025
Time Tested	14:30	14:40	14:50
Test Request #/Location	Lot 59	Lot 61	Lot 62
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 (%)	8	13	4
Percentage of Dry Oversize (%) (AS1289.5.4.1)	**	**	**
Field Wet Density (FWD) t/m ³	1.80	1.81	1.84
Field Moisture Content %	21.4	21.4	23.1
Field Dry Density (FDD) t/m ³	1.51	1.53	1.50
Peak Converted Wet Density t/m ³	**	**	**
Adjusted Peak Converted Wet Density t/m ³	1.85	1.88	1.89
Adj. Optimum Moisture Content % (AS1289.5.4.1)	22.4	21.1	25.0
Adj. Field Moisture Content % (AS1289.5.4.1)	19.7	18.6	22.3
Moisture Ratio % (AS1289.5.4.1)	**	**	**
Adjusted Moisture Ratio % (AS1289.5.4.1)	88.0	88.5	89.0
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.5	2.5	2.5
Hilf Density Ratio (%)	97.5	96.0	97.0
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: D251352-19
Issue Number: 1
Date Issued: 22/09/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 10186
Date Sampled: 12/09/2025 15:00
Dates Tested: 12/09/2025 - 19/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 12/09/2025
Material: Clay
Material Source: On Site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-10186A	D25-10186B	D25-10186C
Test Number	59	60	61
Date Tested	12/09/2025	12/09/2025	12/09/2025
Time Tested	15:15	15:35	15:55
Test Request #/Location	Lot 22	Lot 23	Lot 57
Layer / Reduced Level	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	Clay	Clay	Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) t/m ³	1.74	1.73	1.75
Field Moisture Content %	14.0	13.7	30.6
Field Dry Density (FDD) t/m ³	1.53	1.52	1.34
Peak Converted Wet Density t/m ³	1.72	1.71	1.71
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	18.5	18.3	35.6
Adj. Field Moisture Content % (AS1289.5.4.1)	14.0	13.7	30.6
Moisture Ratio % (AS1289.5.4.1)	76.0	75.0	86.0
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	5.0	5.0	5.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	101.0	101.0	102.0
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: D251352-20
Issue Number: 1
Date Issued: 25/09/2025
Client: Lojac Civil Pty Ltd
 35/148 Chesterville Road, Moorabbin Vic 3189
Project Number: D251352
Project Name: Cobble Springs Estate Stage 4 - Level One
Project Location: Cobble Bank
Work Request: 10210
Date Sampled: 17/09/2025 10:00
Dates Tested: 17/09/2025 - 24/09/2025
Sampling Method: AS 1141.3.1 10.1 - Sampling from a placed layer of pavement
Specification: 95% STD
Location: Cobble Springs Estate Stage 4 - Level One - 17/09/2025
Material: Clay
Material Source: On Site



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1 & RC 330.04			
Sample Number	D25-10210A	D25-10210B	D25-10210C
Test Number	62	63	64
Date Tested	17/09/2025	17/09/2025	17/09/2025
Time Tested	15:04	15:24	15:44
Test Request #/Location	Lot 54	Lot 53	Lot 53
Layer / Reduced Level	Layer 2	Layer 2	Layer 2
Thickness of Layer (mm)	300	300	300
Soil Description	Clay	Clay	Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Percentage of Dry Oversize (%) (AS1289.5.4.1)	0	0	0
Field Wet Density (FWD) t/m ³	1.84	1.83	1.78
Field Moisture Content %	13.9	14.8	13.5
Field Dry Density (FDD) t/m ³	1.61	1.60	1.57
Peak Converted Wet Density t/m ³	1.85	1.86	1.78
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Adj. Optimum Moisture Content % (AS1289.5.4.1)	16.6	17.4	16.2
Adj. Field Moisture Content % (AS1289.5.4.1)	13.9	14.8	13.5
Moisture Ratio % (AS1289.5.4.1)	84.0	84.5	83.5
Adjusted Moisture Ratio % (AS1289.5.4.1)	**	**	**
Moisture Variation (Wv) %	3.0	3.0	3.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	98.5	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