Imagine Estate Stage 18
Strathfieldsaye

Earthworks Supervision Report for
DPJ Civil

Report 25C 0265
February 2026

GTS
GEOTECHNICAL TESTING SERVICES

Imagine Estate Stage 18, Strathfieldsaye

Earthworks Supervision Report

for

DPJ Civil

Revision

Revision	Date	Authorised
25C 0265	23/02/2026	SEH

Distribution (this revision only)

Recipient	Format	Date
GTS	On file	23/02/2026
DPJ Civil Contact: Darren Pitson	Email PDF	23/02/2026

TABLE OF CONTENTS

APPENDIX

1 INTRODUCTION

DPJ Civil commissioned Geotechnical Testing Services (GTS) to undertake Level 1 Supervision and testing (AS3798-2007) for the earthworks for the Imagine Estate Stage 18 residential subdivision at Strathfieldsaye.

Level 1 Testing was generally performed in line with AS3798-2007 “Guidelines on Earthworks for Commercial and Residential Development” and provides inspection of the construction of controlled fill and compaction testing in accordance with AS1289 “Methods of Testing Soils for Engineering Purposes”. The Level 1 testing was undertaken by Geotechnicians with supervision provided by a Geotechnical Engineer from GTS.

2 SCOPE OF WORKS

2.1 AREA OF WORK

Geotechnical Testing Services provided Level 1 inspection and testing of the engineered fill placed across Lots 1808, 1809, 1811, 1812, 1814 and 1815.

The depth of fill across the site varied from none to around 1000mm at its deepest with the approximate locations shown on the attached site plan. It is noted that sites/areas with 300mm or less were not included in the controlled fill operations.

2.2 PLACEMENT SPECIFICATION

Whilst there were no earthworks specification compiled for this project, the placement of the fill and associated works generally followed the recommendations outlined in AS3798-2007 “Guidelines for Earthworks for Commercial and Residential Developments” and the construction specification.

In summary, the earthworks comply with the following:

- The layers for residential lots are to be compacted to at least 95% of the density ratio in accordance with AS1289 5.1.1 (or 5.7.1), based on Standard compaction.

Therefore, in accordance with Table 8.1 of AS3798-2007, the filling may be considered small scale (less than 1500m^2) due to the separate fill locations and therefore a minimum of 1 test per 1000m^2 or per residential lot are required. The testing was conducted at 1 test per layer per lot which meets the minimum requirement.

3 INSPECTION AND TESTING

Inspection of the excavated base was conducted by a Geotechnical Engineer, and it was observed that the unsuitable material (vegetation, topsoil/silt), tree stumps and low strength material had been removed with the base consisting of a Silty Clay material of suitable strength. It is noted that a thicker initial bridging layer was placed to level the site, fill some stump holes to allow for consistent earthworks across the site

Level 1 inspection and testing was undertaken by a geotechnician from GTS who nominated the timing and location of the in-situ density tests. The approximate location of each test is recorded on the test reports and attached fill plan.

Laboratory compaction testing was undertaken on a one-to-one basis at our Bendigo laboratory. A summary of the results of the compaction control testing is presented in a table below with the full NATA endorsed test reports included in the Appendix.

4 SUMMARY OF TEST RESULTS

A summary of the test results is included in the following table with full NATA accredited reports included in the Appendix.

Project No.	Sample No.	Test Date	Location	Reduced Level (mm)	Moisture Variation %O.M.C*	Density Ratio %
1	B25-17715A	9/04/2025	Lot 1815	-300	2.0	95.5
2	B25-17758A	16/04/2025	Lot 1812	FSL	2.5	96.5
3	B25-17758B	16/04/2025	Lot 1815	FSL	1.0	109.5
4	B25-17806A	29/04/2025	Lot 1809	FSL	0.0	99.5
5	B25-17806B	29/04/2025	Lot 1811	FSL	0.5	101.5
6	B25-17825A	1/05/2025	Lot 1808	FSL	4.0	99.5

* Positive Values = Test is **Dry** of OMC; Negative Values = Test is **Wet** of OMC

5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of material for the filling of Lots 1808, 1809, 1811, 1812, 1814 and 1815. The placement of fill and construction techniques adopted was observed throughout the project.

Based on observations made by GTS personnel and the results of field and laboratory tests, we consider that the fill has been placed and compacted and is considered to be engineered or controlled fill. Therefore, subject to residential site classifications, the controlled fill material is deemed a suitable founding medium for future residential buildings. It is noted that topsoil material may be spread across the sites following completion of these earthworks and that this topsoil material is not considered controlled fill.

Shane Hampton BE (Hons), MIEAust
Principal Geotechnical Engineer

APPENDIX

Fig 1 Site Plan

Material Test Report

Report Number: P17236-137
Issue Number: 1
Date Issued: 09/04/2025
Client: DPJ Civil Pty Ltd
24 Jewell Court, Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 18 - Strathfieldsaye
Work Request: 17715
Date Sampled: 09/04/2025
Dates Tested: 09/04/2025 - 09/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550
Phone:
Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Tyler Webb
Snr. Field Technician
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B25-17715A		
Date Tested	09/04/2025		
Time Tested	14:37		
Test Request #/Location	Stage 18 House Block		
Chainage (m)	Lot 1815		
Location Offset (m)	Rear Centre		
Layer / Reduced Level	-300		
Thickness of Layer (mm)	300		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	275		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	0		
Field Wet Density (FWD) t/m^3	1.92		
Field Dry Density (FDD) t/m^3	**		
Peak Converted Wet Density t/m^3	2.01		
Adjusted Peak Converted Wet Density t/m^3	**		
Moisture Variation (Wv) %	2.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	**95.5**		
Compaction Method	**Standard**		
Remarks	**		

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

Material Test Report

Report Number: **P17236-138**
Issue Number: 1
Date Issued: 16/04/2025
Client: DPJ Civil Pty Ltd
24 Jewell Court, Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 18 - Strathfieldsaye
Work Request: 17758
Date Sampled: 16/04/2025
Dates Tested: 16/04/2025 - 16/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550
Phone:
Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Josh Lagodzki
CMT Manager
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B25-17758A	B25-17758B	
Date Tested	16/04/2025	16/04/2025	
Time Tested	07:33	07:38	
Test Request #/Location	Stage 18 House Blocks	Stage 18 House Blocks	
Chainage (m)	Lot 1812	Lot 1815	
Location Offset (m)	Centre RHS	Rear Centre	
Layer / Reduced Level	FSL	FSL	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Sandy Clay	Silty Sandy Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	1.94	2.20	
Field Dry Density (FDD) t/m^3	**	**	
Peak Converted Wet Density t/m^3	2.02	2.01	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	2.5	1.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**96.5**	**109.5**	
Compaction Method	**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: P17236-139
Issue Number: 1
Date Issued: 29/04/2025
Client: DPJ Civil Pty Ltd
24 Jewell Court, Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 18 - Strathfieldsaye
Work Request: 17806
Date Sampled: 29/04/2025
Dates Tested: 29/04/2025 - 29/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550
Phone:
Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Tyler Webb
Snr. Field Technician
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B25-17806A	B25-17806B	
Date Tested	29/04/2025	29/04/2025	
Time Tested	07:55	08:01	
Test Request #/Location	Stage 18 House Blocks	Stage 18 House Blocks	
Chainage (m)	Lot 1809	Lot 1811	
Location Offset (m)	Rear Centre	Centre	
Layer / Reduced Level	FSL	FSL	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Gravelly Clay	Silty Gravelly Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	2.05	2.09	
Field Dry Density (FDD) t/m^3	**	**	
Peak Converted Wet Density t/m^3	2.06	2.05	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	0.0	0.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**99.5**	**101.5**	
Compaction Method	**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: **P17236-140**
Issue Number: 1
Date Issued: 02/05/2025
Client: DPJ Civil Pty Ltd
24 Jewell Court, Bendigo VIC 3550
Project Number: P17236
Project Name: Imagine Estate
Project Location: Stage 18 - Strathfieldsaye
Work Request: 17825
Date Sampled: 01/05/2025
Dates Tested: 01/05/2025 - 02/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Site Selection: Selected by Client
Material Source: Test Location

Geotechnical Testing Services (Southern)
Bendigo Soil and Concrete Testing Laboratory
13 Alstonvale Court East Bendigo VIC 3550
Phone:
Email: tylerw@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Tyler Webb
Snr. Field Technician
NATA Accredited Laboratory Number: 19506

Compaction Control AS 1289 5.7.1 & 5.8.1			
Sample Number	B25-17825A		
Date Tested	01/05/2025		
Time Tested	09:09		
Test Request #/Location	Stage 18 House Blocks		
Chainage (m)	Lot 1808		
Location Offset (m)	Rear Centre		
Layer / Reduced Level	FSL		
Thickness of Layer (mm)	250		
Soil Description	Silty Gravelly Clay		
Test Depth (mm)	225		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	1		
Field Wet Density (FWD) t/m^3	2.04		
Field Dry Density (FDD) t/m^3	**		
Peak Converted Wet Density t/m^3	**		
Adjusted Peak Converted Wet Density t/m^3	2.05		
Moisture Variation (Wv) %	**		
Adjusted Moisture Variation %	4.0		
Hilf Density Ratio (%)	**99.5**		
Compaction Method	**Standard**		
Remarks	**		

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