

Viewpoint Estate Stage F7 Huntly

Earthworks Supervision Report for DPJ Civil

Report 23C 0046 F7
July, 2023

Viewpoint Estate Stage F7 Huntly

Earthworks Supervision Report for DPJ Civil

Revision

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| DPJ Civil Contact: Darren Pitson | Email PDF | 31/07/2023 |



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1 INTRODUCTION

DPJ Civil commissioned Geotechnical Testing Services (GTS) to undertake Level 1 Supervision and testing (AS3798-2007) for the earthworks for the residential subdivision Viewpoint Estate Stage F7, Huntly.

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 in Lots 674 to 679, 684 and 686 to 689.

The depth of fill across the site varied from none to around 900mm at its deepest with the approximate locations shown on the attached site plan. It is noted that sites with 300mm or less were not included in the controlled fill operations.

2.2 PLACEMENT SPECIFICATION

Whilst there was 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 a large scale (greater than 1500m²) and therefore a minimum of 1 test per 2500m² or 3 tests per visit are required. It is noted that under this scale, not every lot required testing, however was generally conducted at 1 test per layer per lot which exceeds the minimum requirement.

3 INSPECTION AND TESTING

Inspection of the excavated base was conducted by a Senior Geotechnical Engineer and it was observed that the unsuitable material (vegetation, topsoil/silt) had been removed with the base consisting of a Silty Clay material of suitable strength.

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 | B22-10889F | 10/03/2022 | Lot 687 | -300 | 3.0 | 100.0 |
| 2 | B23-12415A | 20/01/2023 | Lot 676 | -300 | 2.5 | 100.5 |
| 3 | B23-12415B | 20/01/2023 | Lot 675 | -600 | 2.5 | 105.0 |
| 4 | B23-12415C | 20/01/2023 | Lot 674 | -600 | 2.0 | 103.0 |
| 5 | B23-12415D | 20/01/2023 | Lot 689 | -600 | 2.0 | 99.5 |
| 6 | B23-12422A | 23/01/2023 | Lot 675 | -300 | 4.5 | 104.5 |
| 7 | B23-12422B | 23/01/2023 | Lot 674 | -300 | 3.0 | 104.5 |
| 8 | B23-12422C | 23/01/2023 | Lot 689 | -300 | 3.0 | 107.5 |
| 9 | B23-12457A | 30/01/2023 | Lot 689 | FSL | 4.5 | 110.0 |
| 10 | B23-12457B | 30/01/2023 | Lot 674 | FSL | 3.0 | 106.5 |
| 11 | B23-12457C | 30/01/2023 | Lot 675 | FSL | 0.5 | 103.0 |
| 12 | B23-12457D | 30/01/2023 | Lot 676 | FSL | 2.0 | 103.0 |
| 13 | B23-12457E | 30/01/2023 | Lot 677 | FSL | 3.0 | 101.5 |
| 14 | B23-12457F | 30/01/2023 | Lot 687 | FSL | 5.0 | 99.0 |
| 15 | B23-12457G | 30/01/2023 | Lot 686 | FSL | 5.0 | 99.5 |
| 16 | B23-12476A | 1/02/2023 | Lot 688 | -600 | 2.5 | 97.0 |

| Project No. | Sample No. | Test Date | Location | Reduced Level (mm) | Moisture Variation %O.M.C | Density Ratio % |
|-------------|------------|-----------|----------|--------------------|---------------------------|-----------------|
| 17 | B23-12499A | 3/02/2023 | Lot 688 | -300 | 2.5 | 95.5 |
| 18 | B23-12499B | 3/02/2023 | Lot 684 | FSL | 2.0 | 105.5 |
| 19 | B23-12511A | 7/02/2023 | Lot 688 | FSL | 0.5 | 96.5 |
| 20 | B23-12511B | 7/02/2023 | Lot 687 | FSL | 1.5 | 100.0 |
| 21 | B23-12511C | 7/02/2023 | Lot 686 | FSL | 1.0 | 101.0 |

5 STATEMENT OF COMPLIANCE

GTS personnel have provided Level 1 inspection and testing services during the placement of material for the filling of Lots 674 to 679, 684 and 686 to 689. 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

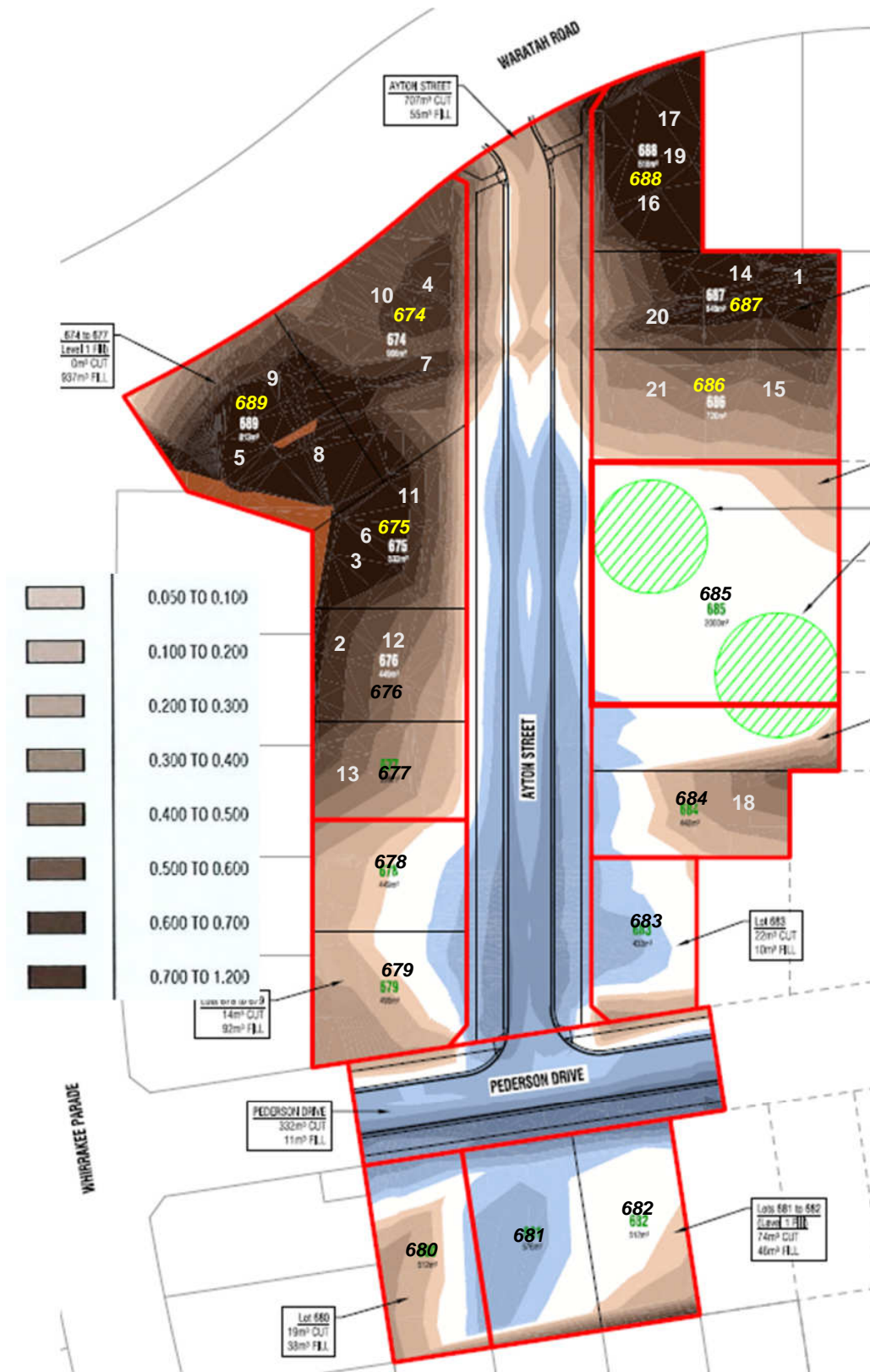


Fig 1: Site Plan

Material Test Report

Report Number: P18615-66
Issue Number: 1
Date Issued: 11/03/2022
Client: Dunlop & Pitson Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P18615
Project Name: View Point Estate
Project Location: Huntly
Work Request: 10889
Date Sampled: 10/03/2022
Dates Tested: 10/03/2022 - 10/03/2022
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: (03) 5441 4881
 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 | B22-10889A | B22-10889B | B22-10889C | B22-10889D | B22-10889E | B22-10889F |
| Date Tested | 10/03/2022 | 10/03/2022 | 10/03/2022 | 10/03/2022 | 10/03/2022 | 10/03/2022 |
| Time Tested | 10:30 | 10:39 | 10:45 | 10:54 | 11:04 | 11:09 |
| Test Request #/Location | Retest Lot 565 House Pad | Lot 563 House Pad | Future Stage 563 B House Pad | Lot 562 House Pad | Lot 561 House Pad | Future Stage 561 B House Pad |
| Easting | 263445, (Zone 55H), 181 m | 263387, (Zone 55H), 180 m | 263387, (Zone 55H), 180 m | 263372, (Zone 55H), 178 m | 263358, (Zone 55H), 181 m | 263344, (Zone 55H), 182 m |
| Northing | 5939249 | 5939269 | 5939256 | 5939262 | 5939263 | 5939261 |
| Layer / Reduced Level | FSL | -300 | -300 | -300 | -300 | -300 |
| Thickness of Layer (mm) | 300 | 300 | 300 | 300 | 300 | 300 |
| Soil Description | Gravelly Silty Clay | Gravelly Silty Clay | Gravelly Silty Clay | Gravelly Silty Clay | Gravelly Silty Clay | Gravelly 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 | 0 |
| Field Wet Density (FWD) t/m ³ | 2.18 | 2.22 | 2.17 | 2.10 | 2.21 | 2.17 |
| Field Dry Density (FDD) t/m ³ | ** | ** | ** | ** | ** | ** |
| Peak Converted Wet Density t/m ³ | 2.08 | 2.12 | 2.10 | 2.12 | 2.15 | 2.18 |
| Adjusted Peak Converted Wet Density t/m ³ | ** | ** | ** | ** | ** | ** |
| Moisture Variation (Wv) % | 2.5 | 2.5 | 0.5 | 4.5 | 3.0 | 3.0 |
| Adjusted Moisture Variation % | ** | ** | ** | ** | ** | ** |
| Hilf Density Ratio (%) | 105.0 | 105.0 | 103.0 | 99.5 | 103.0 | 100.0 |
| Compaction Method | Standard | Standard | Standard | Standard | Standard | Standard |
| Report Remarks | ** | ** | ** | ** | ** | ** |

Moisture Variation Note:

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

Material Test Report

Report Number: P18615-89
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: amended stage number
Date Issued: 21/01/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P18615
Project Name: View Point Estate
Project Location: Stage F7
Work Request: 12415
Date Sampled: 20/01/2023
Dates Tested: 20/01/2023 - 21/01/2023
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



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Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

| Compaction Control AS 1289 5.7.1 & 5.8.1 | | | | |
|--|---------------------------|--------------------------|---------------------------|---------------------------|
| Sample Number | B23-12415A | B23-12415B | B23-12415C | B23-12415D |
| Date Tested | 20/01/2023 | 20/01/2023 | 20/01/2023 | 20/01/2023 |
| Time Tested | 15:04 | 15:10 | 15:14 | 15:19 |
| Test Request #/Location | House blocks 676 | House blocks 675 | House blocks 674 | House blocks 689 |
| Easting | 263281 | 263285 | 263287 | 263277 |
| Northing | 5939190 (Zone 55H), 182 m | 939196 (Zone 55H), 183 m | 5939221 (Zone 55H), 183 m | 5939221 (Zone 55H), 180 m |
| Layer / Reduced Level | -300 | -600 | -600 | -600 |
| Thickness of Layer (mm) | 300 | 300 | 300 | 300 |
| Soil Description | Clayey Sandy Silt | Clayey Sandy Silt | Clayey Sandy Silt | Clayey Sandy Silt |
| 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 |
| Field Wet Density (FWD) t/m ³ | 2.08 | 2.16 | 2.17 | 2.11 |
| Field Dry Density (FDD) t/m ³ | ** | ** | ** | ** |
| Peak Converted Wet Density t/m ³ | 2.07 | 2.05 | 2.10 | 2.11 |
| Adjusted Peak Converted Wet Density t/m ³ | ** | ** | ** | ** |
| Moisture Variation (Wv) % | 2.5 | 2.5 | 2.0 | 2.0 |
| Adjusted Moisture Variation % | ** | ** | ** | ** |
| Hilf Density Ratio (%) | 100.5 | 105.0 | 103.0 | 99.5 |
| Compaction Method | Standard | Standard | Standard | Standard |
| Report Remarks | ** | ** | ** | ** |

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P18615-90
Issue Number: 1
Date Issued: 24/01/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P18615
Project Name: View Point Estate
Project Location: Stage F7
Work Request: 12422
Date Sampled: 23/01/2023
Dates Tested: 23/01/2023 - 24/01/2023
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



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 CMT Manager

NATA Accredited Laboratory Number: 19506

| Compaction Control AS 1289 5.7.1 & 5.8.1 | | | |
|--|---------------------------|---------------------------|---------------------------|
| Sample Number | B23-12422A | B23-12422B | B23-12422C |
| Date Tested | 23/01/2023 | 23/01/2023 | 23/01/2023 |
| Time Tested | 13:56 | 14:03 | 14:09 |
| Test Request #/Location | House blocks Block 675 | House blocks Block 674 | House blocks Block 689 |
| Easting | 263283 | 263286 | 263277 |
| Northing | 5939206 (Zone 55H), 184 m | 5939219 (Zone 55H), 180 m | 5939223 (Zone 55H), |
| Layer / Reduced Level | -300 | -300 | -300 |
| Thickness of Layer (mm) | 300 | 300 | 300 |
| Soil Description | Silty Gravelly Clay | Silty Gravelly Clay | Silty Gravelly 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 |
| Field Wet Density (FWD) t/m ³ | 2.13 | 2.22 | 2.26 |
| Field Dry Density (FDD) t/m ³ | ** | ** | ** |
| Peak Converted Wet Density t/m ³ | 2.04 | 2.12 | 2.10 |
| Adjusted Peak Converted Wet Density t/m ³ | ** | ** | ** |
| Moisture Variation (Wv) % | 4.5 | 3.0 | 3.0 |
| Adjusted Moisture Variation % | ** | ** | ** |
| Hilf Density Ratio (%) | 104.5 | 104.5 | 107.5 |
| Compaction Method | Standard | Standard | Standard |
| Report Remarks | ** | ** | ** |

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P18615-92
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Amended stage number
Date Issued: 07/02/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P18615
Project Name: View Point Estate
Project Location: Stage F7
Work Request: 12457
Date Sampled: 30/01/2023
Dates Tested: 30/01/2023 - 31/01/2023
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



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 Email: joshl@gts.com.au

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 CMT Manager

NATA Accredited Laboratory Number: 19506

| Compaction Control AS 1289 5.7.1 & 5.8.1 | | | | |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| Sample Number | B23-12457A | B23-12457B | B23-12457C | B23-12457D |
| Date Tested | 30/01/2023 | 30/01/2023 | 30/01/2023 | 30/01/2023 |
| Time Tested | 14:19 | 14:25 | 14:29 | 14:31 |
| Test Request #/Location | House blocks Block 689 | House blocks Block 674 | House blocks Block 675 | House blocks Block 676 |
| Easting | 263270 | 263279 | 263285 | 263284 |
| Northing | 5939219 (Zone 55H), 187 m | 5939228 (Zone 55H), 182 m | 5939208 (Zone 55H), 183 m | 5939190 (Zone 55H), 181 m |
| Layer / Reduced Level | FSL | FSL | FSL | FSL |
| Thickness of Layer (mm) | 300 | 300 | 300 | 300 |
| Soil Description | Clayey Sandy Gravel | Clayey Sandy Gravel | Clayey Sandy Gravel | Clayey Sandy Gravel |
| 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 | 1 | 0 |
| Field Wet Density (FWD) t/m ³ | 2.20 | 2.20 | 2.24 | 2.22 |
| Field Dry Density (FDD) t/m ³ | ** | ** | ** | ** |
| Peak Converted Wet Density t/m ³ | 2.00 | 2.07 | ** | 2.16 |
| Adjusted Peak Converted Wet Density t/m ³ | ** | ** | 2.17 | ** |
| Moisture Variation (Wv) % | 4.5 | 3.0 | ** | 2.0 |
| Adjusted Moisture Variation % | ** | ** | 0.5 | ** |
| Hilf Density Ratio (%) | 110.0 | 106.5 | 103.0 | 103.0 |
| Compaction Method | Standard | Standard | Standard | Standard |
| Report Remarks | ** | ** | ** | ** |

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P18615-92
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Amended stage number
Date Issued: 07/02/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P18615
Project Name: View Point Estate
Project Location: Stage F7
Work Request: 12457
Date Sampled: 30/01/2023
Dates Tested: 30/01/2023 - 31/01/2023
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



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 CMT Manager

NATA Accredited Laboratory Number: 19506

| Compaction Control AS 1289 5.7.1 & 5.8.1 | | | | |
|--|---------------------------|---------------------------|---------------------------|--|
| Sample Number | B23-12457E | B23-12457F | B23-12457G | |
| Date Tested | 30/01/2023 | 30/01/2023 | 30/01/2023 | |
| Time Tested | 14:36 | 15:01 | 15:05 | |
| Test Request #/Location | House blocks Block 677 | House blocks Block 687 | House blocks Block 686 | |
| Easting | 263284 | 263343 | 263343 | |
| Northing | 5939171 (Zone 55H), 185 m | 5939231 (Zone 55H), | 5939227 (Zone 55H), 178 m | |
| Layer / Reduced Level | FSL | FSL | FSL | |
| Thickness of Layer (mm) | 300 | 300 | 300 | |
| Soil Description | Clayey Sandy Gravel | Clayey Sandy Gravel | Clayey Sandy Gravel | |
| 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 | |
| Field Wet Density (FWD) t/m ³ | 2.12 | 1.99 | 1.99 | |
| Field Dry Density (FDD) t/m ³ | ** | ** | ** | |
| Peak Converted Wet Density t/m ³ | 2.09 | 2.00 | 2.00 | |
| Adjusted Peak Converted Wet Density t/m ³ | ** | ** | ** | |
| Moisture Variation (Wv) % | 3.0 | 5.0 | 5.0 | |
| Adjusted Moisture Variation % | ** | ** | ** | |
| Hilf Density Ratio (%) | 101.5 | 99.0 | 99.5 | |
| Compaction Method | Standard | Standard | Standard | |
| Report Remarks | ** | ** | ** | |

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: P18615-93
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Amended stage number
Date Issued: 07/02/2023
Client: DPJ Civil Pty Ltd
24 Jewell Court , Bendigo VIC 3550
Project Number: P18615
Project Name: View Point Estate
Project Location: Stage F7
Work Request: 12476
Date Sampled: 01/02/2023
Dates Tested: 01/02/2023 - 04/02/2023
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



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

| Compaction Control AS 1289 5.7.1 & 5.8.1 | | | |
|--|---------------------------|--|--|
| Sample Number | B23-12476A | | |
| Date Tested | 01/02/2023 | | |
| Time Tested | 13:19 | | |
| Test Request #/Location | House blocks Block 688 | | |
| Easting | 263330 | | |
| Northing | 5939263 (Zone 55H), 179 m | | |
| Layer / Reduced Level | -600 | | |
| Thickness of Layer (mm) | 300 | | |
| Soil Description | Clayey Sandy Gravel | | |
| Test Depth (mm) | 275 | | |
| Sieve used to determine oversize (mm) | 19.0 | | |
| Percentage of Wet Oversize (%) | 0 | | |
| Field Wet Density (FWD) t/m ³ | 2.09 | | |
| Field Dry Density (FDD) t/m ³ | ** | | |
| Peak Converted Wet Density t/m ³ | 2.16 | | |
| Adjusted Peak Converted Wet Density t/m ³ | ** | | |
| Moisture Variation (Wv) % | 2.5 | | |
| Adjusted Moisture Variation % | ** | | |
| Hilf Density Ratio (%) | 97.0 | | |
| Compaction Method | Standard | | |
| Report Remarks | ** | | |

Moisture Variation Note:

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

Material Test Report

Report Number: P18615-94
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Amended stage number
Date Issued: 07/02/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P18615
Project Name: View Point Estate
Project Location: Stage F7
Work Request: 12499
Date Sampled: 03/02/2023
Dates Tested: 03/02/2023 - 06/02/2023
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



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 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 | B23-12499A | B23-12499B | |
| Date Tested | 03/02/2023 | 03/02/2023 | |
| Time Tested | 14:16 | 14:27 | |
| Test Request #/Location | House blocks Lot 688 | House blocks Lot 684 | |
| Easting | 263333 | 263353 | |
| Northing | 5939267 | 5939157 | |
| Layer / Reduced Level | -300 | 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 (%) | ** | 3 | |
| Field Wet Density (FWD) t/m ³ | 2.06 | 2.22 | |
| Field Dry Density (FDD) t/m ³ | ** | ** | |
| Peak Converted Wet Density t/m ³ | 2.16 | ** | |
| Adjusted Peak Converted Wet Density t/m ³ | ** | 2.11 | |
| Moisture Variation (Wv) % | 2.5 | ** | |
| Adjusted Moisture Variation % | ** | 2.0 | |
| Hilf Density Ratio (%) | 95.5 | 105.5 | |
| Compaction Method | Standard | Standard | |
| Report Remarks | ** | ** | |

Moisture Variation Note:

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

Material Test Report

Report Number: P18615-95
Issue Number: 1
Date Issued: 08/02/2023
Client: DPJ Civil Pty Ltd
 24 Jewell Court , Bendigo VIC 3550
Project Number: P18615
Project Name: View Point Estate
Project Location: Stage F7
Work Request: 12511
Date Sampled: 07/02/2023
Dates Tested: 07/02/2023 - 08/02/2023
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: (03) 5441 4881
 Email: joshl@gts.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



TL

Approved Signatory: Josh Lagodzki
 CMT Manager

NATA Accredited Laboratory Number: 19506

| Compaction Control AS 1289 5.7.1 & 5.8.1 | | | |
|--|---------------------------|---------------------------|---------------------|
| Sample Number | B23-12511A | B23-12511B | B23-12511C |
| Date Tested | 07/02/2023 | 07/02/2023 | 07/02/2023 |
| Time Tested | 08:20 | 08:30 | 08:36 |
| Test Request #/Location | House blocks Block 688 | House blocks Block 687 | House Block 686 |
| Chainage (m) | Front | Back | Back |
| Location Offset (m) | ** | ** | ** |
| Layer / Reduced Level | FSL | FSL | FSL |
| Thickness of Layer (mm) | 300 | 300 | 300 |
| Soil Description | Gravelly Silty Clay | Gravelly Silty Clay | Gravelly Silty Clay |
| Test Depth (mm) | 275 | 275 | 275 |
| Sieve used to determine oversize (mm) | 19.0 | 19.0 | 19.0 |
| Percentage of Wet Oversize (%) | 6 | 0 | 0 |
| Field Wet Density (FWD) t/m ³ | 2.05 | 2.14 | 2.19 |
| Field Dry Density (FDD) t/m ³ | ** | ** | ** |
| Peak Converted Wet Density t/m ³ | ** | 2.14 | 2.17 |
| Adjusted Peak Converted Wet Density t/m ³ | 2.13 | ** | ** |
| Moisture Variation (Wv) % | ** | 1.5 | 1.0 |
| Adjusted Moisture Variation % | 0.5 | ** | ** |
| Hilf Density Ratio (%) | 96.5 | 100.0 | 101.0 |
| Compaction Method | Standard | Standard | Standard |
| Report Remarks | ** | ** | ** |

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC