Australian Geotechnical Testing

Level One Inspection and Testing

Project No: AGTE240211
Project: Drews Paddock Stage 4
Suburb: Invermay North

Client: Wayne Horne Earthmoving

Date: 3rd April 2025

Geotechnical	Pavement	Environmental	Residential	Design
Slope Stability Assessment	Land Capability Assessments	Erosion and Sediment Control Plan
Retaining Walls	Level 1 Supervision	Earthworks Specification's	Percolation

Adelaide | Brisbane | Ballarat | Melbourne | Warrnambool

Contents

1 Introduction

Australian Geotechnical Testing (AGT) have been engaged by Wayne Horne Earthmoving to provide Level 1 Geotechnical Supervision for the Drews Paddock Stage 4 project. The Estate is located in Invermay North.

This Level 1 report presents the results of supervision activities, compaction and moisture control, material placement and laboratory testing for ground works undertaken for the project. This report covers construction activities carried out from **7th June 2024 until 1st April 2025.**

2 Scope of Works

The scope of works involved the placement of on-site General Fill. Fill Material was placed in Level one fill areas, in accordance with ***AS 3798-2007***, ***Guidelines on earthworks for commercial and residential developments and project specifications***. The level of FILL to be placed is less than 5m as per AS3798 Section 1.1.

The fill material is required as per AS3798 and the project specification to achieve:

- **95% Standard Maximum Dry Density (Compaction)**

General fill material used for the construction was locally sourced and predominantly comprising of **Silty Clay.**

3 Inspections / Supervision

Full-time Level 1 supervision and inspection was undertaken including the supervision and inspections regarding the stripping and removal as per AS3798 Section 3 shall have removed:

- Organic soils, such as topsoils, severely root affected subsoils and peat;
- Contaminated soils are part of the brief;
- Materials which undergo volume change or loss of strength when disturbed and exposed to moisture;
- Silts, or materials that have deleterious engineering properties of silt;
- Other materials with properties that are unsuitable for the forming of structural fill;
- Fill that contains wood, metal plastic, boulders or other deleterious material, in sufficient proportions to affect the required performance of the fill.
- The maximum particle size of any rocks or other lumps, within the layer, has not exceeded two-thirds ($^2/_3$) of the compacted layer thickness.

The lots inspected were essentially homogeneous in relation to material type and moisture condition, rolling response and compaction technique and which has been used for the assessment of relative compaction of an area of work (AS3798 Section 1.2.8).

Prior to placement of engineered fill, all existing ‘uncontrolled’ filled ground, for which the conditions of the placement are not adequately documented (and therefore should not be assumed to be either of the standard of compaction or of the composition adequate to support fill or any other loads) should be removed (AS3798 Section 2).

4 Testing

The project was classified as **Residential**, thereby requiring a minimum compaction result of ***95%*** density ratio Standard Compaction for the ***cohesive soils (***AS 1289 5.7.1 & 5.1.1) throughout the Level 1 Fill and in accordance with AS 3798-2007 – Table 5.2. The test was performed using a Nuclear Density Gauge for field density determination *AS 1289.5.8.1.*

As a minimum testing was undertaken either 3 tests per lot, 1 test per 2,500m^2 per layer, or 1 test per 500m^3 throughout the placement of fill as per AS3798 Table 8.1.

The material was site derived Silty Clay Fill**.** The material was placed in approximately 250mm loose layers, rolling effort with on-site Compactor (to seal of each layer of placed General Fill material) to a compacted 150mm layer that achieved 95% Standard Compaction which met Australian Standards specifications. This was considered the best method to achieve compaction using the plant and machinery available.

The NATA compaction reports verify the achievement of the minimum density requirement of 95% Standard Compaction throughout the full depth area, with each layer tested accordingly. All test results were provided to our client: Wayne Horne Earthmoving for inclusion within their internal quality system.

At the completion of the structural layers and material within 150mm of permanent subgrade level in cuttings, test rolling was undertaken, and the layers withstood test rolling without visible deformation or springing (AS 3798 Section 5.5).

The area covered by this Level 1 Supervision report is shown in the Site Plan (Refer to Appendix A). The results of the laboratory Testing are indicated in Appendix B.

5 Conclusion

On the completion of the earthworks and after analysing the materials used, it has been concluded that the filling procedure conducted by our client **Wayne Horne Earthmoving satisfied** the general requirements of AS 3798 regards to the placement of fill materials on a project under Level 1 Supervision and in accordance with the project specification as provided to AGT.

The fill meets the requirements for “structural fill for residential applications” in accordance with AS3798. The fill has been placed, compacted and tested in accordance with AS3798 and the fill meets the requirements for controlled fill in accordance with AS2870 (2011) “Residential Slabs and Footings”.

This report has been prepared for the benefit of our client with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose without our prior review and agreement. No responsibility for this report will be taken by AGT if it is altered in any way, or not reproduced in full.

6 Applicability

The findings and conclusions contained in this Report are made based on site conditions that existed at the time this work was conducted. The conclusions presented in this report are relevant to the conditions of the site and the state of legislation currently enacted as at the date of this report.

Findings and conclusions are made assuming that the soil, groundwater, geological and chemical conditions detailed within this report are accurate and remain applicable to the site at the time of writing. The conclusions of this report may become invalid if filling or excavation occurs after the boreholes and test pits referred to in this report were drilled or excavated. No other warranties are made or intended.

AGT has used a degree of skill and care ordinarily exercised by reputable members of our profession practicing in the same or similar locality.

AGT does not make any representation or warranty that the conclusions in this report will be applicable in the future as there may be changes in the condition of the site, applicable legislation or other factors that would affect the conclusions contained in this report.
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ENGINEERS AUSTRALIA

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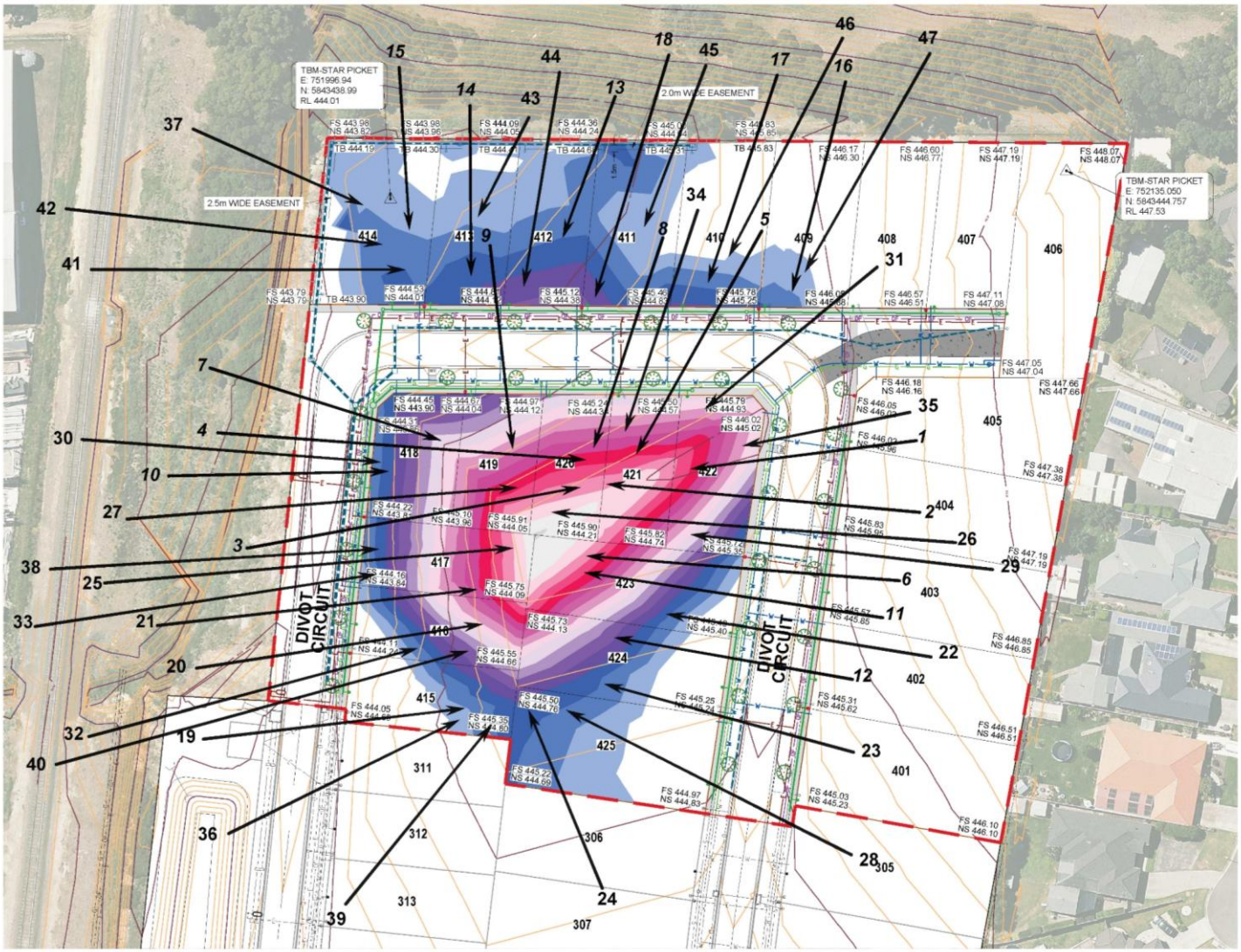
Appendix A – Site Plan



Key

→ **Test Location**

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SITE PLAN - NOT TO SCALE

AGT

Report No

AGTE240211

Drews Paddock Stage 4

Invermay North

Wayne Horne Earthmoving

Appendix B – Laboratory Testing

Project Summary Report

Report Date: 03/04/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Contact: Dave Compston
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Invermay
Specification: 95% Standard
Test Methods: AS 1289 5.7.1 STD & 5.8.1 & 2.1.1

Australian Geotechnical Testing
Ballarat Laboratory
2/55 Heinz Road Delacombe VIC 3356
Phone: 1300 026 583
Email: kimb@ausgeotest.com.au

Lot #	Sample #	Date Sampled	Location	Latitude	Longitude	Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	60345-1	31/05/2024	Drews Paddock - Stage 4 Lot 422	-37.522075	143.852305	**	900mm below FSL	96.5	0.0	24.5	1.94
**	60345-2	31/05/2024	Drews Paddock - Stage 4 Lot 421	-37.522183	142.852165	**	1200mm below FSL	96.0	-2.5	25.3	1.96
**	60345-3	31/05/2024	Drews Paddock - Stage 4 Lot 420	-37.521972	142.852072	**	1800mm below FSL	96.0	0.0	25.7	1.91
**	60345-4	03/06/2024	Drews Paddock - Stage 4 Lot 419	-37.521975	143.851779	**	1650mm below FSL	97.0	2.0	19.8	1.97
**	60345-5	03/06/2024	Drews Paddock - Stage 4 Lot 420	-37.522069	143.851846	**	1500mm below FSL	95.5	2.0	19.8	1.95
**	60345-6	03/06/2024	Drews Paddock - Stage 4 Lot 424	-37.522407	143.851846	**	1200mm below FSL	95.5	2.0	18.0	1.94
**	60345-7	07/06/2024	Drews Paddock - Stage 4 Lot 418	-37.521978	143.851504	**	750 below FSL	97.0	-0.5	21.8	2.00
**	60345-8	02/08/2024	Drew's Paddock - Stage 4 Lot 420	-37.52327	143.851829	**	1050m Below FSL	99.5	-1.0	22.2	2.06
**	60345-9	02/08/2024	Drew's Paddock - Stage 4 Lot 419	-37.522355	143.851473	**	1350m Below FSL	99.5	-0.5	23.0	2.01
**	60345-10	02/08/2024	Drew's Paddock - Stage 4 Lot 418	-37.522349	143.851473	**	600 Below FSL	100.0	0.5	28.1	1.95
**	60345-11	02/08/2024	Drew's Paddock - Stage 4 Lot 423	-37.522570	143.851771	**	1350 Below FSL	102.0	0.5	15.1	2.06
**	60345-12	02/08/2024	Drew's Paddock - Stage 4 Lot 424	-37.522570	143.851875	**	750 Below FSL	99.5	0.0	21.0	2.08
**	60345-13	06/08/2024	Drew's Paddock - Stage 4 Lot 412	-37.521680	143.852017	**	300mm Below FSL	101.0	-0.5	19.8	2.06
**	60345-14	06/08/2024	Drew's Paddock - Stage 4 Lot 413	-37.521944	143.851904	**	450mm Below FSL	99.5	-0.5	19.0	2.04
**	60345-15	06/08/2024	Drew's Paddock - Stage 4 Lot 414	-37.521758	143.851656	**	150mm Below FSL	102.5	-0.5	25.8	2.10
**	60345-16	08/08/2024	Drews Paddock - Stage 4 Lot 409	-37.521721	143.851993	**	600m Below FSL	101.0	-0.5	22.3	2.06
**	60345-17	08/08/2024	Drews Paddock - Stage 4 Lot 410	-37.521721	143.851993	**	450m Below FSL	100.5	-0.5	22.2	2.04
**	60345-18	08/08/2024	Drews Paddock - Stage 4 Lot 411	-37.521686	143.851665	**	300 Below FSL	104.0	-0.5	20.4	2.10
**	60345-19	05/09/2024	Drews Paddock - Stage 4 Lot 415	-37.52533	143.85194	**	300mm below FSL	97.5	0.0	22.7	1.95
**	60345-20	05/09/2024	Drews Paddock - Stage 4 Lot 416	-37.52237	143.85191	**	900mm below FSL	102.0	0.0	23.5	2.04
**	60345-21	05/09/2024	Drews Paddock - Stage 4 Lot 417	-37.52251	143.85990	**	1050mm below FSL	98.5	0.5	23.5	1.96
**	60345-22	05/09/2024	Drews Paddock - Stage 4 Lot 423	-37.52254	143.85212	**	150mm below FSL	96.5	0.0	27.6	1.96
**	60345-23	05/09/2024	Drews Paddock - Stage 4 Lot 424	-37.52244	143.85210	**	300mm below FSL	102.5	0.0	13.9	2.06
**	60345-24	05/09/2024	Drews Paddock - Stage 4 Lot 425	-37.52247	143.85213	**	450mm below FSL	100.5	0.0	28.1	2.02
**	60345-25	18/12/2024	Drews Paddock - Stage 4 Lot 417	-37.522419	143.851755	**	150mm Below FSL	103.5	5.0	19.6	1.92
**	60345-26	18/12/2024	Drews Paddock - Stage 4 Lot 420	-37.522268	143.851929	**	150mm Below FSL	102.0	5.0	12.5	1.90
**	60345-27	18/12/2024	Drews Paddock - Stage 4 Lot 419	-37.522175	143.851746	**	Below FSL	101.5	5.0	13.1	1.90
**	60345-28	18/12/2024	Drews Paddock - Stage 4 Lot 425	-37.52253	143.85227	**	Below FSL	100.5	2.0	9.2	1.96
**	60345-29	18/12/2024	Drews Paddock - Stage 4 Lot 422	-37.522083	143.852321	**	Below FSL	100.0	2.0	16.7	2.13
**	60345-30	19/12/2024	Drews Paddock - Stage 4 Lot 418	-37.522160	143.851532	**	150mm Below FSL	95.0	0.5	17.6	1.90
**	60345-31	19/12/2024	Drews Paddock - Stage 4 Lot 421	-37.521974	143.852152	**	300mm Below FSL	95.0	0.5	20.6	1.89
**	60345-32	19/12/2024	Drews Paddock - Stage 4 Lot 416	-37.522367	143.851425	**	300mm Below FSL	95.0	1.0	15.7	1.90
**	60345-33	13/03/2025	Drews Paddock Lot 417	-37.52211	143.85211	**	FSL	96.0	0.0	18.4	1.85
**	60345-34	13/03/2025	Drews Paddock Lot 421	-37.52219	143.85214	**	FSL	99.0	-0.5	18.4	1.92
**	60345-35	13/03/2025	Drews Paddock Lot 422	-37.52226	143.85217	**	FSL	103.0	4.5	17.9	1.91
**	60345-36	19/03/2025	Drews Paddock - Stage 4 Lot 415	-37.52213	143.85154	**	FSL	101.0	2.5	16.3	1.97

Lot #	Sample #	Date Sampled	Location	Latitude	Longitude	Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	60345-37	19/03/2025	Drews Paddock - Stage 4 Lot 414	-37.52210	143.85195	**	FSL	100.5	2.0	17.1	1.99
**	60345-38	19/03/2025	Drews Paddock - Stage 4 Lot 417	-37.52274	143.84963	**	FSL	99.5	2.0	18.5	1.94
**	60345-39	20/03/2025	Drews Paddock - Stage 4 Lot 415	-37.52161	143.85148	**	FSL	101.5	2.5	19.6	2.02
**	60345-40	20/03/2025	Drews Paddock - Stage 4 Lot 416	-37.52241	143.85158	**	FSL	99.0	2.5	23.5	1.91
**	60345-41	20/03/2025	Drews Paddock - Stage 4 Lot 414	-37.52246	143.85131	**	300 mm below FSL	99.0	2.5	20.6	1.92
**	60345-42	25/03/2025	Drews Paddock Stage 4 Lot 414	-37.521681	143.851544	**	FSL	100.5	4.5	19.9	1.95
**	60345-43	25/03/2025	Drews Paddock Stage 4 Lot 413	-37.521626	143.851649	**	FSL	100.0	2.0	19.8	1.97
**	60345-44	25/03/2025	Drews Paddock Stage 4 Lot 412	-37.521616	143.851871	**	FSL	100.5	3.0	19.5	1.99
**	60345-45	25/03/2025	Drews Paddock Stage 4 Lot 411	-37.521696	143.852077	**	FSL	101.0	2.5	15.5	1.91
**	60345-46	25/03/2025	Drews Paddock Stage 4 Lot 410	-37.521667	143.852206	**	FSL	100.0	3.5	25.7	1.99
**	60345-47	25/03/2025	Drews Paddock Stage 4 Lot 409	-37.521635	143.852380	**	FSL	98.0	-0.5	26.4	1.97

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report

Report Number: **AGT60345-1**
Issue Number: 1
Date Issued: 07/06/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2041
Date Sampled: 31/05/2024 14:00
Dates Tested: 31/05/2024 - 03/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: (CH) silty CLAY- Brown
Material Source: Onsite

Australian Geotechnical Testing
Ballarat Laboratory
2/55 Heinz Road Delacombe VIC 3356
Phone: 1300 026 583
Email: PaulF@ausgeotest.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-1	60345-2	60345-3
Date Tested	31/05/2024	31/05/2024	31/05/2024
Time Tested	15:15	15:20	15:25
Test Request #/Location	Drews Paddock - Stage 4 Lot 422	Drews Paddock - Stage 4 Lot 421	Drews Paddock - Stage 4 Lot 420
Latitude	-37.522075	-37.522183	-37.521972
Longitude	143.852305	142.852165	142.852072
Layer / Reduced Level	900mm below FSL	1200mm below FSL	1800mm below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m^3	1.94	1.96	1.91
Field Moisture Content %	24.5	25.3	25.7
Field Dry Density (FDD) t/m^3	1.56	1.57	1.52
Peak Converted Wet Density t/m^3	2.01	2.05	1.99
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	0.0	-2.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**96.5**	**96.0**	**96.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: **AGT60345-2**
Issue Number: 1
Date Issued: 07/06/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2050
Date Sampled: 03/06/2024
Dates Tested: 03/06/2024 - 05/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: silty CLAY
Material Source: Onsite

Australian Geotechnical Testing
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2/55 Heinz Road Delacombe VIC 3356
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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-4	60345-5	60345-6
Date Tested	03/06/2024	03/06/2024	03/06/2024
Time Tested	15:30	15:35	15:40
Test Request #/Location	Drews Paddock - Stage 4 Lot 419	Drews Paddock - Stage 4 Lot 420	Drews Paddock - Stage 4 Lot 424
Latitude	-37.521975	-37.522069	-37.522407
Longitude	143.851779	143.851846	143.851846
Layer / Reduced Level	1650mm below FSL	1500mm below FSL	1200mm below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m^3	1.97	1.95	1.94
Field Moisture Content %	19.8	19.8	18.0
Field Dry Density (FDD) t/m^3	1.64	1.62	1.65
Peak Converted Wet Density t/m^3	2.03	2.03	2.04
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**97.0**	**95.5**	**95.5**
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: **AGT60345-3**
Issue Number: 1
Date Issued: 17/06/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2056
Date Sampled: 07/06/2024
Dates Tested: 07/06/2024 - 07/06/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: (CH) silty CLAY- Brown
Material Source: Onsite

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-7		
Date Tested	07/06/2024		
Time Tested	09:30		
Test Request #/Location	Drews Paddock - Stage 4 Lot 418		
Latitude	-37.521978		
Longitude	143.851504		
Layer / Reduced Level	750 below FSL		
Thickness of Layer (mm)	150		
Soil Description	(CH) silty CLAY- Brown		
Test Depth (mm)	125		
Sieve used to determine oversize (mm)	19.0		
Percentage of Wet Oversize (%)	**		
Field Wet Density (FWD) t/m^3	2.00		
Field Moisture Content %	21.8		
Field Dry Density (FDD) t/m^3	1.65		
Peak Converted Wet Density t/m^3	2.07		
Adjusted Peak Converted Wet Density t/m^3	**		
Moisture Variation (Wv) %	-0.5		
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: AGT60345-4
Issue Number: 1
Date Issued: 06/08/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2137
Date Sampled: 02/08/2024
Dates Tested: 02/08/2024 - 05/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: (CH) CLAY- Brown
Material Source: Import

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Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	60345-8	60345-9	60345-10	60345-11	60345-12
Date Tested	02/08/2024	02/08/2024	02/08/2024	02/08/2024	02/08/2024
Time Tested	13:00	13:10	13:20	13:25	13:30
Test Request #/Location	Drew's Paddock - Stage 4 Lot 420	Drew's Paddock - Stage 4 Lot 419	Drew's Paddock - Stage 4 Lot 418	Drew's Paddock - Stage 4 Lot 423	Drew's Paddock - Stage 4 Lot 424
Latitude	-37.52327	-37.522355	-37.522349	-37.522570	-37.522570
Longitude	143.851829	143.851473	143.851473	143.851771	143.851875
Layer / Reduced Level	1050m Below FSL	1350m Below FSL	600 Below FSL	1350 Below FSL	750 Below FSL
Thickness of Layer (mm)	150	150	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m^3	2.06	2.01	1.95	2.06	2.08
Field Moisture Content %	22.2	23.0	28.1	15.1	21.0
Field Dry Density (FDD) t/m^3	1.68	1.64	1.52	1.79	1.72
Peak Converted Wet Density t/m^3	2.06	2.02	1.95	2.02	2.09
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	-1.0	-0.5	0.5	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**99.5**	**99.5**	**100.0**	**102.0**	**99.5**
Compaction Method	**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: **AGT60345-5**
Issue Number: 1
Date Issued: 09/08/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2140
Date Sampled: 06/08/2024
Dates Tested: 06/08/2024 - 09/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: silty CLAY
Material Source: Onsite

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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-13	60345-14	60345-15
Date Tested	06/08/2024	06/08/2024	06/08/2024
Time Tested	12:45	12:50	12:55
Test Request #/Location	Drew's Paddock - Stage 4 Lot 412	Drew's Paddock - Stage 4 Lot 413	Drew's Paddock - Stage 4 Lot 414
Latitude	-37.521680	-37.521944	-37.521758
Longitude	143.852017	143.851904	143.851656
Layer / Reduced Level	300mm Below FSL	450mm Below FSL	150mm Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	silty CLAY	silty CLAY	silty CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m^3	2.06	2.04	2.10
Field Moisture Content %	19.8	19.0	25.8
Field Dry Density (FDD) t/m^3	1.72	1.71	1.67
Peak Converted Wet Density t/m^3	2.05	2.05	2.04
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**101.0**	**99.5**	**102.5**
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: **AGT60345-6**
Issue Number: 1
Date Issued: 09/08/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2143
Date Sampled: 08/08/2024
Dates Tested: 08/08/2024 - 09/08/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: (CH) silty CLAY- Brown
Material Source: Onsite

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Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-16	60345-17	60345-18
Date Tested	08/08/2024	08/08/2024	08/08/2024
Time Tested	13:00	13:10	13:20
Test Request #/Location	Drews Paddock - Stage 4 Lot 409	Drews Paddock - Stage 4 Lot 410	Drews Paddock - Stage 4 Lot 411
Latitude	-37.521721	-37.521721	-37.521686
Longitude	143.851993	143.851993	143.851665
Layer / Reduced Level	600m Below FSL	450m Below FSL	300 Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m^3	2.06	2.04	2.10
Field Moisture Content %	22.3	22.2	20.4
Field Dry Density (FDD) t/m^3	1.69	1.67	1.74
Peak Converted Wet Density t/m^3	2.04	2.03	2.02
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**101.0**	**100.5**	**104.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Report Remarks	**	**	**

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

Material Test Report

Report Number: AGT60345-7
Issue Number: 1
Date Issued: 06/09/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2169
Date Sampled: 05/09/2024
Dates Tested: 06/09/2024 - 06/09/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock Stage 4
Material: (CH) silty CLAY- Brown
Material Source: Onsite

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Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	60345-19	60345-20	60345-21	60345-22	60345-23	60345-24
Date Tested	05/09/2024	05/09/2024	05/09/2024	05/09/2024	05/09/2024	05/09/2024
Time Tested	13:30	13:40	13:50	14:00	14:10	14:20
Test Request #/Location	Drews Paddock -Stage 4 Lot 415	Drews Paddock -Stage 4 Lot 416	Drews Paddock -Stage 4 Lot 417	Drews Paddock -Stage 4 Lot 423	Drews Paddock -Stage 4 Lot 424	Drews Paddock -Stage 4 Lot 425
Latitude	-37.52533	-37.52237	-37.52251	-37.52254	-37.52244	-37.52247
Longitude	143.85194	143.85191	143.85990	143.85212	143.85210	143.85213
Layer / Reduced Level	300mm below FSL	900mm below FSL	1050mm below FSL	150mm below FSL	300mm below FSL	450mm below FSL
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m^3	1.95	2.04	1.96	1.96	2.06	2.02
Field Moisture Content %	22.7	23.5	23.5	27.6	13.9	28.1
Field Dry Density (FDD) t/m^3	1.59	1.66	1.59	1.54	1.81	1.58
Peak Converted Wet Density t/m^3	2.01	2.00	1.99	2.04	2.01	2.01
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	**97.5**	**102.0**	**98.5**	**96.5**	**102.5**	**100.5**
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: **AGT60345-8**
Issue Number: 1
Date Issued: 19/12/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2264
Date Sampled: 18/12/2024
Dates Tested: 18/12/2024 - 18/12/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: silty CLAY
Material Source: Onsite

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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	60345-25	60345-26	60345-27	60345-28	60345-29
Date Tested	18/12/2024	18/12/2024	18/12/2024	18/12/2024	18/12/2024
Time Tested	10:35	10:40	10:45	10:55	11:00
Test Request #/Location	Drews Paddock - Stage 4 Lot 417	Drews Paddock - Stage 4 Lot 420	Drews Paddock - Stage 4 Lot 419	Drews Paddock - Stage 4 Lot 425	Drews Paddock - Stage 4 Lot 422
Latitude	-37.522419	-37.522268	-37.522175	-37.52253	-37.522083
Longitude	143.851755	143.851929	143.851746	143.85227	143.852321
Layer / Reduced Level	150mm Below FSL	150mm Below FSL	Below FSL	Below FSL	Below FSL
Thickness of Layer (mm)	150	150	150	150	150
Soil Description	silty CLAY	silty CLAY	silty CLAY	silty CLAY	silty CLAY
Test Depth (mm)	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m^3	1.92	1.90	1.90	1.96	2.13
Field Moisture Content %	19.6	12.5	13.1	9.2	16.7
Field Dry Density (FDD) t/m^3	1.60	1.69	1.68	1.80	1.83
Peak Converted Wet Density t/m^3	1.85	1.87	1.87	1.95	2.14
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	5.0	5.0	5.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**103.5**	**102.0**	**101.5**	**100.5**	**100.0**
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: **AGT60345-9**
Issue Number: 1
Date Issued: 20/12/2024
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Drews Paddock, Stage 4
Work Request: 2266
Date Sampled: 19/12/2024
Dates Tested: 19/12/2024 - 20/12/2024
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: silty CLAY
Material Source: Onsite

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Approved Signatory: Riley Taylor
Senior Geotechnician
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-30	60345-31	60345-32
Date Tested	19/12/2024	19/12/2024	19/12/2024
Time Tested	10:45	10:55	11:00
Test Request #/Location	Drews Paddock - Stage 4 Lot 418	Drews Paddock - Stage 4 Lot 421	Drews Paddock - Stage 4 Lot 416
Latitude	-37.522160	-37.521974	-37.522367
Longitude	143.851532	143.852152	143.851425
Layer / Reduced Level	150mm Below FSL	300mm Below FSL	300mm Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	silty CLAY	silty CLAY	silty CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m^3	1.90	1.89	1.90
Field Moisture Content %	17.6	20.6	15.7
Field Dry Density (FDD) t/m^3	1.62	1.57	1.64
Peak Converted Wet Density t/m^3	2.00	1.99	2.01
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	0.5	0.5	1.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**95.0**	**95.0**	**95.0**
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: **AGT60345-10**
Issue Number: 1
Date Issued: 17/03/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Invermay
Work Request: 2402
Date Sampled: 13/03/2025
Dates Tested: 14/03/2025 - 14/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock, Stage 4
Material: (CH) silty CLAY- Brown
Material Source: Onsite

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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-33	60345-34	60345-35
Date Tested	13/03/2025	13/03/2025	13/03/2025
Time Tested	15:10	15:20	15:30
Test Request #/Location	Drews Paddock Lot 417	Drews Paddock Lot 421	Drews Paddock Lot 422
Latitude	-37.52211	-37.52219	-37.52226
Longitude	143.85211	143.85214	143.85217
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CL) CLAY- Brown	(CL) CLAY- Brown	(CL) CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m^3	1.85	1.92	1.91
Field Moisture Content %	18.4	18.4	17.9
Field Dry Density (FDD) t/m^3	1.57	1.62	1.62
Peak Converted Wet Density t/m^3	1.93	1.93	1.85
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	4.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**96.0**	**99.0**	**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: **AGT60345-11**
Issue Number: 1
Date Issued: 29/03/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Invermay
Work Request: 2425
Date Sampled: 19/03/2025
Dates Tested: 20/03/2025 - 24/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock Stage 4
Material: (CH) silty CLAY- Brown
Material Source: Onsite

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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-36	60345-37	60345-38
Date Tested	19/03/2025	19/03/2025	19/03/2025
Time Tested	13:00	13:05	13:10
Test Request #/Location	Drews Paddock - Stage 4 Lot 415	Drews Paddock - Stage 4 Lot 414	Drews Paddock - Stage 4 Lot 417
Latitude	-37.52213	-37.52210	-37.52274
Longitude	143.85154	143.85195	143.84963
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m^3	1.97	1.99	1.94
Field Moisture Content %	16.3	17.1	18.5
Field Dry Density (FDD) t/m^3	1.70	1.70	1.64
Peak Converted Wet Density t/m^3	1.95	1.98	1.95
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**101.0**	**100.5**	**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: **AGT60345-12**
Issue Number: 1
Date Issued: 29/03/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Invermay
Work Request: 2428
Date Sampled: 20/03/2025
Dates Tested: 25/03/2025 - 25/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Location: Drews Paddock Stage 4
Material: (CL) CLAY- Brown
Material Source: Onsite

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Approved Signatory: Paul Francis
Laboratory Manager - Ballarat
NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60345-39	60345-40	60345-41
Date Tested	20/03/2025	20/03/2025	20/03/2025
Time Tested	13:00	13:05	13:10
Test Request #/Location	Drews Paddock - Stage 4 Lot 415	Drews Paddock - Stage 4 Lot 416	Drews Paddock - Stage 4 Lot 414
Latitude	-37.52161	-37.52241	-37.52246
Longitude	143.85148	143.85158	143.85131
Layer / Reduced Level	FSL	FSL	300 mm below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	CLAY	CLAY	CLAY
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**
Field Wet Density (FWD) t/m^3	2.02	1.91	1.92
Field Moisture Content %	19.6	23.5	20.6
Field Dry Density (FDD) t/m^3	1.69	1.55	1.59
Peak Converted Wet Density t/m^3	2.00	1.93	1.94
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**101.5**	**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: **AGT60345-13**
Issue Number: 1
Date Issued: 29/03/2025
Client: Wayne Horne Earthmoving
3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60345
Project Name: Drews Paddock, Stage 4
Project Location: Invermay
Work Request: 2429
Date Sampled: 25/03/2025
Dates Tested: 25/03/2025 - 25/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Location: Drews Paddock Stage 4
Material: (CH) silty CLAY- Brown
Material Source: Onsite

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Approved Signatory: Paul Francis
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NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	60345-42	60345-43	60345-44	60345-45	60345-46	60345-47
Date Tested	25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025	25/03/2025
Time Tested	11:00	11:10	11:15	11:25	11:30	11:35
Test Request #/Location	Drews Paddock Stage 4 Lot 414	Drews Paddock Stage 4 Lot 413	Drews Paddock Stage 4 Lot 412	Drews Paddock Stage 4 Lot 411	Drews Paddock Stage 4 Lot 410	Drews Paddock Stage 4 Lot 409
Latitude	-37.521681	-37.521626	-37.521616	-37.521696	-37.521667	-37.521635
Longitude	143.851544	143.851649	143.851871	143.852077	143.852206	143.852380
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown	(CH) silty CLAY- Brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**	**
Field Wet Density (FWD) t/m^3	1.95	1.97	1.99	1.91	1.99	1.97
Field Moisture Content %	19.9	19.8	19.5	15.5	25.7	26.4
Field Dry Density (FDD) t/m^3	1.63	1.65	1.67	1.65	1.58	1.56
Peak Converted Wet Density t/m^3	1.94	1.98	1.98	1.89	1.99	2.02
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**	**
Moisture Variation (Wv) %	4.5	2.0	3.0	2.5	3.5	-0.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	**100.5**	**100.0**	**100.5**	**101.0**	**100.0**	**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

Appendix C – Site Photos