



Australian Geotechnical Testing

Level One Inspection and Testing

Project No: AGTE21606 Revision 1

Project: Alluvium Estate Stage 3

Suburb: Delacombe



Client: Wayne Horne Earthmoving

Date: 12th April 2022

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

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1 Introduction

Australian Geotechnical Testing (AGT) has been engaged by Wayne Horne Earthmoving to provide Level 1 Geotechnical Supervision for the Alluvium Estate Stage 3 project. The Estate is located in Delacombe, Ballarat VIC.

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 **1st November 2021 to 4th March 2022**.

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 ($\frac{2}{3}$) 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 any existing filled ground, for which the conditions of the placement are not adequately documented have not been assumed to have been of either standard compaction or of the composition adequate to support fill or any loads has been 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 2,500m² per layer, or 1 test per 500m³ throughout the placement of fill as per AS3798 Table 8.1.

The material was Salvaged Silty Clay. The material was placed in approximately 200mm 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 Earth Moving 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 Earth Moving 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. This report has been prepared exclusively for use by our client. This report cannot be reproduced without the written authorisation of AGT and then can only be reproduced in its entirety.



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Appendix A – Site Plan

ALLUVIUM ESTATE STAGE 3 Reports 1-13 Only

LEGEND

- GW PROPOSED GAS & WATER CONDUITS
- ET PROPOSED ELECT. & TELECOMM. CONDUITS
- W PROPOSED WATER MAIN
- ExW Ex. WATER MAIN
- G PROPOSED GAS MAINS
- ExG Ex. GAS MAINS & VALVE
- E PROP. ELECTRICAL CABLES
- ExE Ex. ELECTRICAL CABLE
- T PROPOSED TELSTRA CABLES
- ExT Ex. TELSTRA CABLES
- PROPOSED DRAIN & PIT
- Ex. DRAIN & PIT
- PROPOSED HOUSE DRAIN
- Ex. HOUSE DRAIN
- DESIGN FINISHED SURFACE CONTOURS (0.25m INT.)
- DIRECTION OF LOT FINISHED SURFACE FALL
- OVERLAND FLOW PATH



EARTHWORKS LEGEND

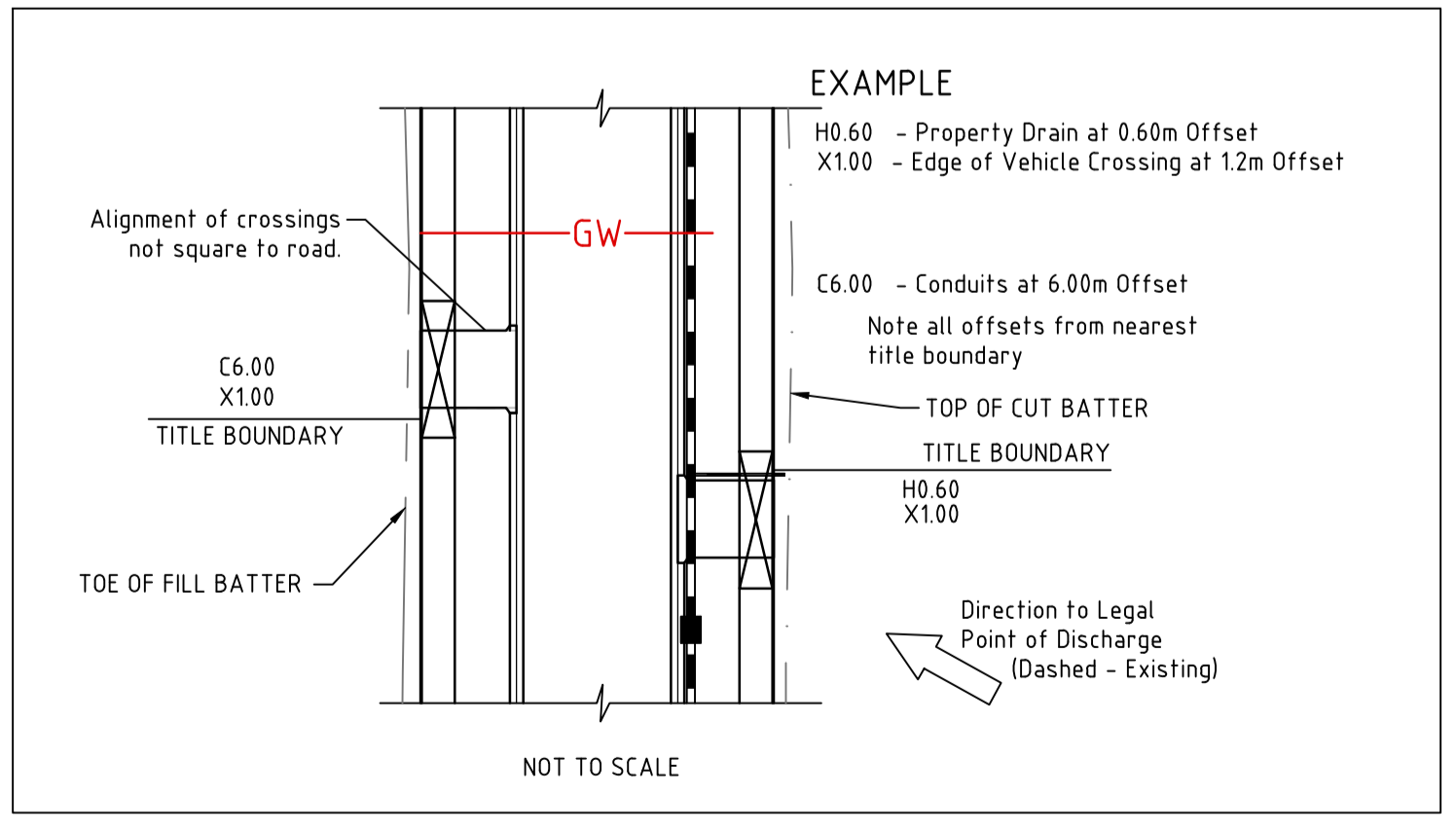
- FILL EARTHWORKS - FILL AREA WITHIN LOTS GREATER THAN 150mm DEPTH
- CUT EARTHWORKS - CUT AREA WITHIN LOTS GREATER THAN 150mm DEPTH

THIS PLAN SHOWS ONLY APPROXIMATE EXTENTS & LEVELS OF FILL TO BE PLACED DURING CONSTRUCTION. DEPTH OF FILL USED FOR TOP DRESSING ALL ALLOTMENTS MAY VARY BY UP TO 0.15m. THE EXTENT OF FILL SHOWN IS BASED ON DESIGN AND MAY BE SUBJECT TO CHANGE FOLLOWING FINAL INSPECTION BY GEOTECHNICAL ENGINEER.

SERVICES SCHEDULE

STREET NAME	GAS	D-WATER	TELEC.	ELECT.	SEWER	STREET TREES	ROAD RESERVE
CUMBERLAND BOULEVARD	2.10 W	2.70 W	1.90 E	2.60 E	1.00 E&W	2.30 B.O.K. BOTH	20.00
GELLIBRAND ROAD	2.10 N	2.60 N	1.85 S	2.60 S	N/A	1.00 B.O.K. BOTH	18.00
RUTLEDGE WAY	2.10 N	2.60 N	1.85 S	2.60 S	N/A	1.00 B.O.K. BOTH	18.00
BUCKLEY AVENUE	2.10 E	2.60 E	1.85 W	2.60 W	N/A	1.00 B.O.K. BOTH	18.00

* DENOTES EXISTING SERVICE EXACT LOCATION TO BE PROVEN ON SITE BY CONTRACTOR.
ALL OFFSETS ARE REFERENCED TO NEAREST BL.



TYPICAL NOTATIONS - EXAMPLE

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

PRELIMINARY PLAN ONLY
NOT APPROVED FOR CONSTRUCTION

THIS DRAWING IS NOT TO BE COPIED OR SCALED

VERSION	REMARKS	DATE	BY
B	DRAINAGE LINES 15- 9 & 38-40 UPDATED	04.08.21	LP
A	ISSUE FOR MARKETING	15.07.21	LP

DRAWN BY	N. ROBINSON	DESIGNED BY	L. PHAN
MELWAY	565, N10	CHECKED BY	L. PHAN
DATUM	AHD	AUTHORISED BY	P. MILLER

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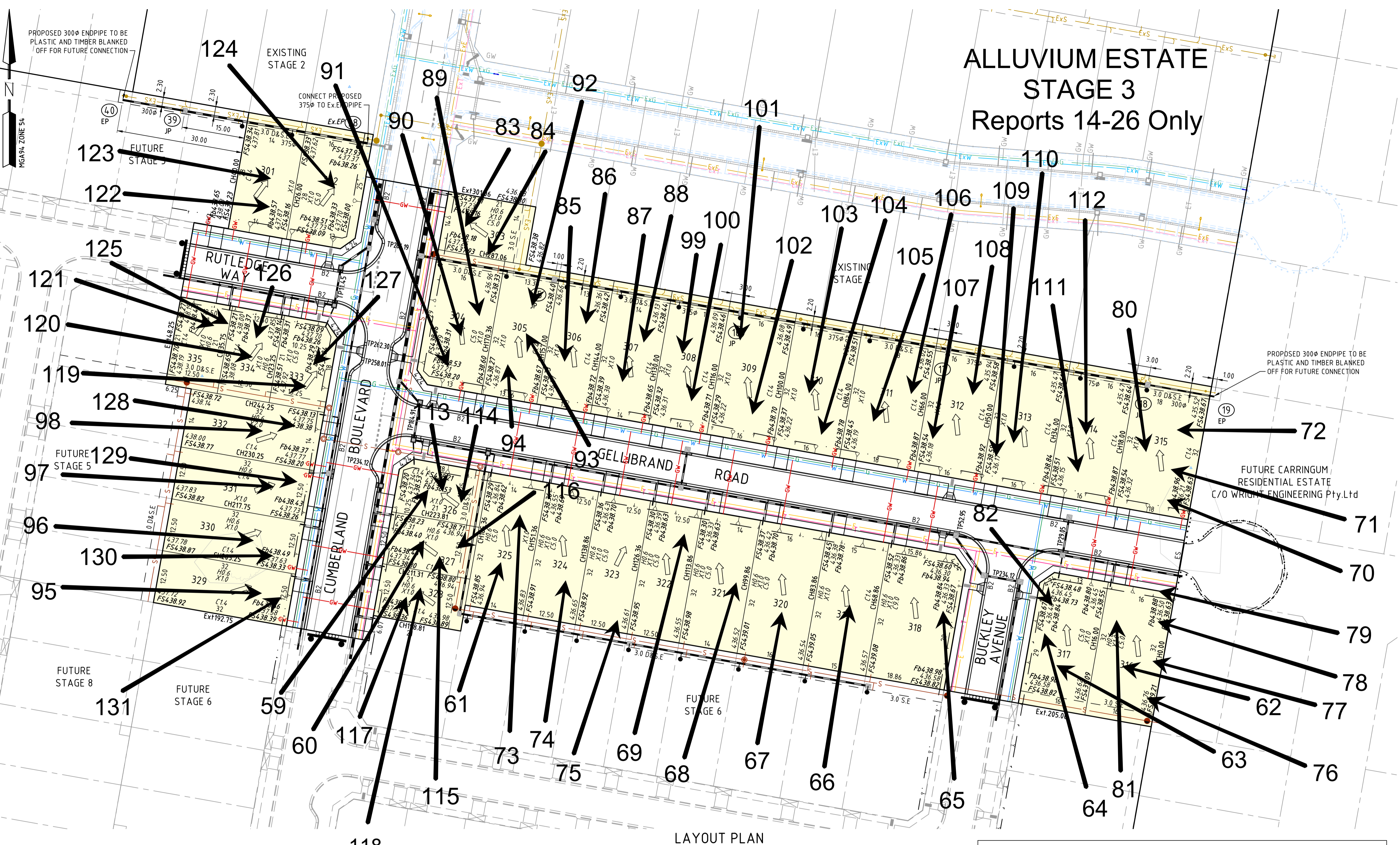
CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 3
LAYOUT PLAN

DRAWING No.	3R2	VERSION	A
REFERENCE	22558E		
SHEET	2 OF XX		

ALLUVIUM ESTATE STAGE 3 Reports 14-26 Only

LEGEND

- GW PROPOSED GAS & WATER CONDUITS
- ET PROPOSED ELECT. & TELECOMM. CONDUITS
- W PROPOSED WATER MAIN
- ExW Ex. WATER MAIN
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- DESIGN FINISHED SURFACE CONTOURS (0.25m INT.)
- DIRECTION OF LOT FINISHED SURFACE FALL
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LAYOUT PLAN
0 5 10 20
Scale 1:500 @ A1

EARTHWORKS LEGEND

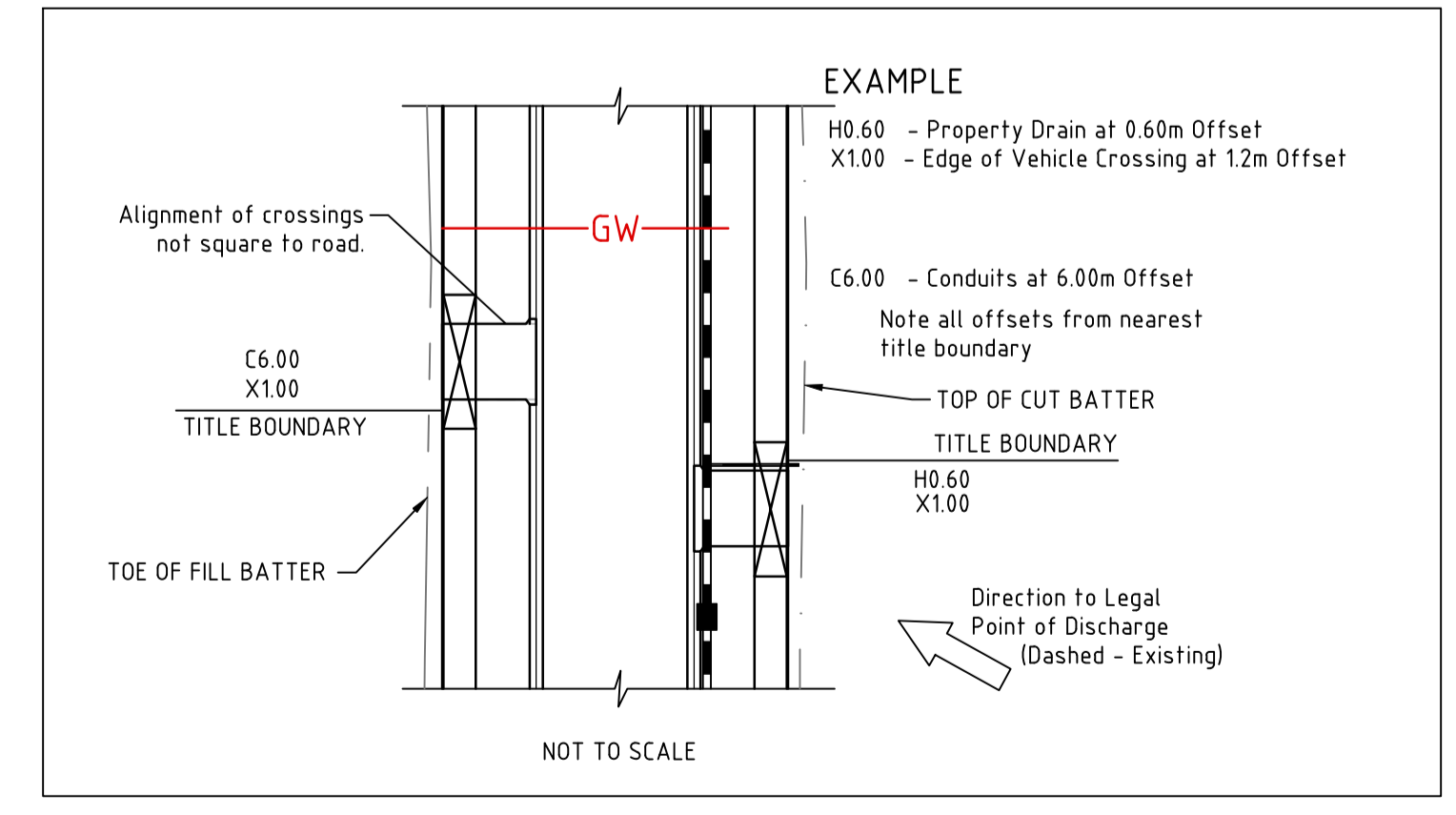
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SERVICES SCHEDULE

STREET NAME	GAS	D-WATER	TELEC.	ELECT.	SEWER	STREET TREES	ROAD RESERVE
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GELLIBRAND ROAD	2.10 N	2.60 N	1.85 S	2.60 S	N/A	1.00 B.O.K. BOTH	18.00
RUTLEDGE WAY	2.10 N	2.60 N	1.85 S	2.60 S	N/A	1.00 B.O.K. BOTH	18.00
BUCKLEY AVENUE	2.10 E	2.60 E	1.85 W	2.60 W	N/A	1.00 B.O.K. BOTH	18.00

* DENOTES EXISTING SERVICE EXACT LOCATION TO BE PROVEN ON SITE BY CONTRACTOR.
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PRELIMINARY PLAN ONLY
NOT APPROVED FOR CONSTRUCTION

H:\22558\STAGE 3\CADD\DWG\SET\ROAD AND DRAINAGE\22558E_3R2_9-10.DWG

THIS DRAWING IS NOT TO BE COPIED OR SCALED

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A	ISSUE FOR MARKETING	15.07.21	LP

DRAWN BY	N. ROBINSON	DESIGNED BY	L. PHAN
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CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 3
LAYOUT PLAN

DRAWING No.	3R2	VERSION	A
REFERENCE	22558E		
SHEET	2 OF XX		

Appendix B – Laboratory Testing

Material Test Report

Report Number: AGT60067-1
Issue Number: 1
Date Issued: 04/11/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 735
Dates Tested: 01/11/2021 - 03/11/2021
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
Material: Brown Silty Clay
Material Source: Onsite



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

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-1	60067-2	60067-3
Date Tested	01/11/2021	01/11/2021	01/11/2021
Time Tested	16:25	16:30	16:40
Test Request #/Location	Alluvium Estate - Stage 3 Lot 306	Alluvium Estate - Stage 3 Lot 307	Alluvium Estate - Stage 3 Lot 308
Latitude	-37.57200	-37.57205	-37.57207
Longitude	143.79450	143.79478	143.79498
Layer / Reduced Level	900 below	900 below	1200 below
Thickness of Layer (mm)	150	150	150
Soil Description	brown silty clay	brown silty clay	brown 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	1.85	1.94
Field Moisture Content %	27.1	30.9	33.5
Field Dry Density (FDD) t/m ³	1.49	1.42	1.46
Peak Converted Wet Density t/m ³	1.89	1.93	1.84
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	-1.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.5	96.0	105.5
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: AGT60067-2
Issue Number: 1
Date Issued: 25/11/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355

Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 752
Date Sampled: 22/11/2021 17:00
Dates Tested: 22/11/2021 - 24/11/2021
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
Material: Brown Silty Clay
Material Source: In Situ



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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Paul Francis
 Laboratory Manager

NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-4	60067-5	60067-6
Date Tested	22/11/2021	22/11/2021	22/11/2021
Time Tested	16:50	17:00	17:10
Test Request #/Location	Alluvium Estate - Stage 3 Lot 321	Alluvium Estate - Stage 3 Lot 322	Alluvium Estate - Stage 3 Lot 323
Latitude	-37.572459	-37.572210	-37.572284
Longitude	143.794482	143.794339	143.794462
Layer / Reduced Level	1.8m Below	1.5m Below	1.2m Below
Thickness of Layer (mm)	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown 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	1.98	2.06	2.06
Field Moisture Content %	23.5	17.3	21.8
Field Dry Density (FDD) t/m ³	1.61	1.76	1.69
Peak Converted Wet Density t/m ³	2.08	2.12	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	0.5	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	95.0	97.5	98.0
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: AGT60067-3
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Lot numbers corrected
Date Issued: 30/03/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 753
Date Sampled: 23/11/2021
Dates Tested: 23/11/2021 - 24/11/2021
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
Material: Salvage Clay
Material Source: Import



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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	60067-10	60067-11	60067-12
Date Tested	23/11/2021	23/11/2021	23/11/2021
Time Tested	10:30	13:00	13:10
Test Request #/Location	Alluvium Estate - Stage 3 Lot 322	Alluvium Estate - Stage 3 Lot 322	Alluvium Estate - Stage 3 Lot 323
Latitude	-37.572309	-37.572266	-37.572359
Longitude	143.794682	143.794610	143.794575
Layer / Reduced Level	1200mm below FSL	900 below FSL	900 below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Dark brown silty clay	Dark brown silty clay	Brown clay, hi PI
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	2.07	2.04	1.95
Field Moisture Content %	26.6	22.8	27.4
Field Dry Density (FDD) t/m ³	1.63	1.66	1.53
Peak Converted Wet Density t/m ³	2.05	2.12	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.5	96.5	98.5
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: AGT60067-4
Issue Number: 1
Date Issued: 27/11/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 762
Date Sampled: 25/11/2021
Dates Tested: 25/11/2021 - 27/11/2021
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
Material: Salvage Clay
Material Source: Import



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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	60067-13	60067-14	60067-15	60067-16	60067-17	60067-18
Date Tested	25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Tested	08:30	08:35	11:30	11:35	14:00	14:10
Test Request #/Location	Alluvium Estate Stage 3 Lot 321	Alluvium Estate Stage 3 Lot 321	Alluvium Estate Stage 3 Lot 322	Alluvium Estate Stage 3 Lot 323	Alluvium Estate Stage 3 Lot 321	Alluvium Estate Stage 3 Lot 321
Latitude	-37.572278	-37.572197	-37.572384	-37.572300	-37.572305	-37.572169
Longitude	143.794814	143.794616	143.794573	143.794387	143.794710	143.794576
Layer / Reduced Level	1500mm below	1200mm below	600mm below	600mm below	900mm below	600mm below
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay
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	2.14	2.16	2.03	1.98	2.15	2.11
Field Moisture Content %	15.1	13.5	24.2	26.7	14.7	22.3
Field Dry Density (FDD) t/m ³	1.86	1.90	1.64	1.57	1.88	1.73
Peak Converted Wet Density t/m ³	2.14	2.17	2.06	1.96	2.13	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	-1.0	-0.5	-1.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	100.0	99.5	98.5	101.5	101.0	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: AGT60067-5
Issue Number: 1
Date Issued: 27/11/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 768
Date Sampled: 26/11/2021
Dates Tested: 26/11/2021 - 27/11/2021
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
Material: Salvage Clay
Material Source: Import



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-19	60067-20	60067-21
Date Tested	26/11/2021	26/11/2021	26/11/2021
Time Tested	13:00	13:10	13:20
Test Request #/Location	Alluvium Estate - Stage 3 Lot 323	Alluvium Estate - Stage 3 Lot 322	Alluvium Estate - Stage 3 Lot 321
Latitude	-37.57200	-37.57209	-37.57217
Longitude	143.79438	143.7957	143.79462
Layer / Reduced Level	300mm below	300mm below	300mm below
Thickness of Layer (mm)	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown 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	2.11	2.10
Field Moisture Content %	25.5	19.7	18.1
Field Dry Density (FDD) t/m ³	1.64	1.76	1.78
Peak Converted Wet Density t/m ³	2.14	2.12	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	0.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.0	99.5	100.5
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: AGT60067-6
Issue Number: 1
Date Issued: 03/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 778
Date Sampled: 01/12/2021
Dates Tested: 01/12/2021 - 02/12/2021
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
Material: Salvage Clay
Material Source: Import



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-22	60067-23	60067-24
Date Tested	01/12/2021	01/12/2021	01/12/2021
Time Tested	11:45	13:00	14:15
Test Request #/Location	Alluvium Estate Stage 3 Lot 324	Alluvium Estate Stage 3 Lot 325	Alluvium Estate Stage 3 Lot 324
Latitude	-37.52625	-37.572625	-37.572449
Longitude	143.794346	143.794264	143.794143
Layer / Reduced Level	1800mm below FSL	1500mm below FSL	1200mm below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage 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	2.01	2.03	2.00
Field Moisture Content %	25.7	22.1	**
Field Dry Density (FDD) t/m ³	1.60	1.66	**
Peak Converted Wet Density t/m ³	2.09	2.11	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-1.0	-0.5	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.0	96.0	98.5
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: AGT60067-7
Issue Number: 1
Date Issued: 09/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 779
Date Sampled: 02/12/2021
Dates Tested: 02/12/2021 - 06/12/2021
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
Material: Brown Silty Clay
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	60067-25	60067-26	60067-27	60067-28
Date Tested	02/12/2021	02/12/2021	02/12/2021	02/12/2021
Time Tested	07:45	07:55	13:00	13:10
Test Request #/Location	Alluvium Estate - Stage 3 Lot 324	Alluvium Estate - Stage 3 Lot 325	Alluvium Estate - Stage 3 Lot 324	Alluvium Estate - Stage 3 Lot 325
Latitude	-37.572544	-37.572528	-37.572513	-37.572527
Longitude	143.794360	143.794313	143.794239	143.794261
Layer / Reduced Level	900 Below	900 Below	600 Below	600 Below
Thickness of Layer (mm)	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	2.06	2.07	2.06	2.05
Field Moisture Content %	24.7	20.9	23.1	20.8
Field Dry Density (FDD) t/m ³	1.65	1.71	1.68	1.70
Peak Converted Wet Density t/m ³	1.93	2.02	1.96	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	3.0	1.0	2.5	1.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	106.5	102.5	105.5	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: AGT60067-8
Issue Number: 1
Date Issued: 09/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355

Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 782
Date Sampled: 07/12/2021 7:30
Dates Tested: 07/12/2021 - 09/12/2021
Sampling Method: RMS T100 - AS 1289.1.3.1 3.1.4 (b) - Open-drive samplers - piston samplers - floating type
Specification: 95% Standard
Site Selection: Selected by Client
Material: Brown Silty Clay
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	60067-29	60067-30	60067-31	60067-32	60067-33	60067-34
Date Tested	07/12/2021	07/12/2021	07/12/2021	07/12/2021	07/12/2021	07/12/2021
Time Tested	13:00	13:05	10:20	16:45	17:00	17:10
Test Request #/Location	Alluvium Estate - Stage 3 Lot 324	Alluvium Estate - Stage 3 Lot 325	Alluvium Estate - Stage 3 Lot 323	Alluvium Estate - Stage 3 Lot 321	Alluvium Estate - Stage 3 Lot 320	Alluvium Estate - Stage 3 Lot 319
Latitude	-37.572480	-37.572570	-37.572406	-37.572183	-37.572239	-37.572328
Longitude	143.794051	143.794164	143.793977	143.794418	143.794459	143.794497
Layer / Reduced Level	300mm below	300mm below	150mm below	150mm below	1200mm below	1200mm below
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
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	1.96	1.99	2.17	1.96	1.98	2.03
Field Moisture Content %	16.7	14.0	17.0	24.7	21.2	21.0
Field Dry Density (FDD) t/m ³	1.68	1.75	1.85	1.57	1.63	1.68
Peak Converted Wet Density t/m ³	1.99	2.06	2.14	2.07	2.07	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	3.0	2.5	2.5	-2.5	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	98.5	96.5	101.5	95.0	95.5	96.0
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: AGT60067-9
Issue Number: 1
Date Issued: 09/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 784
Dates Tested: 08/12/2021 - 09/12/2021
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
Material: Brown Silty Clay
Material Source: Import



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-35	60067-36	60067-37
Date Tested	08/12/2021	08/12/2021	08/12/2021
Time Tested	11:30	11:40	15:00
Test Request #/Location	Alluvium Estate - Stage 3 Lot 319	Alluvium Estate - Stage 3 Lot 320	Alluvium Estate - Stage 3 Lot 320
Latitude	-37.57246	-37.57253	-37.57257
Longitude	143.79438	143.79442	143.79415
Layer / Reduced Level	900 Below	900 below	600 Below
Thickness of Layer (mm)	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown 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	2.02	2.17	1.91
Field Moisture Content %	20.5	16.9	13.6
Field Dry Density (FDD) t/m ³	1.67	1.85	1.68
Peak Converted Wet Density t/m ³	2.07	2.09	1.93
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	3.5	4.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.5	103.5	99.0
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: AGT60067-10
Issue Number: 1
Date Issued: 15/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 787
Date Sampled: 10/12/2021
Dates Tested: 10/12/2021 - 14/12/2021
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
Material: Salvage Clay
Material Source: Import



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-38	60067-39	60067-40
Date Tested	10/12/2021	10/12/2021	10/12/2021
Time Tested	15:00	15:10	15:20
Test Request #/Location	Alluvium Estate Stage 3 Lot 318	Alluvium Estate Stage 3 Lot 318	Alluvium Estate Stage 3 Lot 318
Easting	-37.572062	-37.572237	-37.572200
Northing	143.795022	143.794724	143.794492
Layer / Reduced Level	1500mm below FSL	1200mm below FSL	900mm below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage 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	2.12	2.00	2.01
Field Moisture Content %	21.8	22.8	20.6
Field Dry Density (FDD) t/m ³	1.74	1.63	1.67
Peak Converted Wet Density t/m ³	2.11	1.98	1.95
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	0.0	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.0	101.0	103.0
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: AGT60067-11
Issue Number: 1
Date Issued: 15/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 790
Dates Tested: 13/12/2021 - 15/12/2021



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-41	60067-42	60067-43
Date Tested	13/12/2021	13/12/2021	13/12/2021
Time Tested	11:00	13:00	13:10
Test Request #/Location	Alluvium Estate Stage Lot 315	Alluvium Estate Stage Lot 313	Alluvium Estate Stage Lot 314
Latitude	-37.57223	-37.57223	-37.57201
Longitude	143.79533	143.79512	143.79526
Layer / Reduced Level	1800mm below FSL	1500mm below FSL	1200mm below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Salvage Clay	Salvage Clay/Trace 20mm FCR	Salvage 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	1.88	2.07	1.94
Field Moisture Content %	22.2	15.9	22.3
Field Dry Density (FDD) t/m ³	1.54	1.79	1.58
Peak Converted Wet Density t/m ³	1.91	2.04	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.0	3.0	1.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	101.5	100.5
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: AGT60067-12
Issue Number: 1
Date Issued: 20/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 793
Date Sampled: 15/12/2021
Dates Tested: 15/12/2021 - 18/12/2021
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
Material: Brown Silty Clay
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	60067-44	60067-45	60067-46	60067-47	60067-48
Date Tested	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021
Time Tested	08:45	08:55	12:40	12:50	13:00
Test Request #/Location	Alluvium Estate Stage 3 Lot 309	Alluvium Estate Stage 3 Lot 310	Alluvium Estate Stage 3 Lot 310	Alluvium Estate Stage 3 Lot 311	Alluvium Estate Stage 3 Lot 312
Latitude	-37.572056	-37.572133	-37.572106	-37.572106	-37.572143
Longitude	143.794786	143.794597	143.794967	143.795068	143.795166
Layer / Reduced Level	1500mm below	1200mm below	900mm below	900mm below	900mm below
Thickness of Layer (mm)	150	150	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay	Salvage 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	1.99	2.09	2.14	2.05	1.90
Field Moisture Content %	30.7	25.1	21.7	23.5	28.7
Field Dry Density (FDD) t/m ³	1.52	1.67	1.76	1.66	1.47
Peak Converted Wet Density t/m ³	2.01	2.04	2.12	2.03	1.96
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	102.5	101.0	101.0	97.0
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: AGT60067-12
Issue Number: 1
Date Issued: 20/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 793
Date Sampled: 15/12/2021
Dates Tested: 15/12/2021 - 18/12/2021
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
Material: Brown Silty Clay
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	60067-49	60067-50	60067-51	60067-52	60067-53
Date Tested	15/12/2021	15/12/2021	15/12/2021	15/12/2021	15/12/2021
Time Tested	13:10	13:50	15:00	16:30	16:45
Test Request #/Location	Alluvium Estate Stage 3 Lot 313	Alluvium Estate Stage 3 Lot 315	Alluvium Estate Stage 3 Lot 314	Alluvium Estate Stage 3 Lot 314	Alluvium Estate Stage 3 Lot 315
Latitude	-37.572215	-37.572194	-37.572036	-37.572075	-37.572138
Longitude	143.795328	143.795477	143.795991	143.795496	143.795556
Layer / Reduced Level	900mm below	2100mm below	1800mm below	1500mm below	1800mm below
Thickness of Layer (mm)	150	150	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay	Salvage 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	2.00	1.90	1.99	2.11	2.07
Field Moisture Content %	23.6	28.6	**	21.7	22.9
Field Dry Density (FDD) t/m ³	1.62	1.48	**	1.73	1.68
Peak Converted Wet Density t/m ³	2.02	1.98	2.03	2.12	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5	-0.5	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	96.0	98.0	99.5	102.0
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: AGT60067-13
Issue Number: 1
Date Issued: 20/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 795
Dates Tested: 16/12/2021 - 18/12/2021



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	60067-54	60067-55	60067-56	60067-57	60067-58
Date Tested	16/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Tested	10:00	10:15	10:25	11:35	11:45
Test Request #/Location	Alluvium Estate Stage 3 Lot 320	Alluvium Estate Stage 3 Lot 314	Alluvium Estate Stage 3 Lot 315	Alluvium Estate Stage 3 Lot 318	Alluvium Estate Stage 3 Lot 319
Latitude	-37.572345	-37.572077	-37.572075	-37.572370	-37.572367
Longitude	143.794636	143.795494	143.795604	143.794765	143.794968
Layer / Reduced Level	300mm below FSL	900mm below FSL	900mm below FSL	300mm below FSL	300mm below FSL
Thickness of Layer (mm)	150	150	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay	Salvage 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	2.08	2.05	2.07	2.02	1.99
Field Moisture Content %	21.3	30.0	22.8	16.1	17.2
Field Dry Density (FDD) t/m ³	1.72	1.58	1.68	1.74	1.70
Peak Converted Wet Density t/m ³	2.08	2.12	2.08	2.04	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	0.0	0.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	100.0	96.5	99.5	99.0	101.0
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: AGT60067-14
Issue Number: 1
Date Issued: 20/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Stage 3
Work Request: 799
Dates Tested: 17/12/2021 - 18/12/2021



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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	60067-59	60067-60	60067-61	60067-62	60067-63
Date Tested	17/12/2021	17/12/2021	17/12/2021	17/12/2021	17/12/2021
Time Tested	13:00	13:05	13:10	14:10	14:15
Test Request #/Location	Alluvium Estate - Stage 3 Lot 326	Alluvium Estate - Stage 3 Lot 327	Alluvium Estate - Stage 3 Lot 325	Alluvium Estate - Stage 3 Lot 316	Alluvium Estate - Stage 3 Lot 317
Latitude	-37.572431	-37.572556	-37.572540	-37.572330	-37.572477
Longitude	143.793851	143.794100	143.794300	143.795452	143.795354
Layer / Reduced Level	900mm Below	900mm Below	150mm Below	1800mm Below	1800mm Below
Thickness of Layer (mm)	150	150	150	150	150
Soil Description	Salvaged Clay	Salvaged Clay	Salvaged Clay	Salvaged Clay	Salvaged 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	2.06	1.89	2.10	2.03	2.02
Field Moisture Content %	23.5	28.4	17.6	21.5	33.9
Field Dry Density (FDD) t/m ³	1.67	1.47	1.78	1.67	1.51
Peak Converted Wet Density t/m ³	2.02	1.99	2.19	2.08	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	0.5	0.0	0.0	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	102.0	95.5	96.0	97.5	97.5
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: AGT60067-15
Issue Number: 1
Date Issued: 23/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 801
Dates Tested: 20/12/2021 - 21/12/2021
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
Material: Salvaged Clay
Material Source: In Situ



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 Laboratory Manager - Ballarat
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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	60067-64	60067-65	60067-66	60067-67	60067-68	60067-69
Date Tested	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021	20/12/2021
Time Tested	13:00	13:10	13:20	15:30	15:40	15:50
Test Request #/Location	Alluvium Estate - Stage 3 Lot 317	Alluvium Estate - Stage 3 Lot 318	Alluvium Estate - Stage 3 Lot 319	Alluvium Estate - Stage 3 Lot 320	Alluvium Estate - Stage 3 Lot 321	Alluvium Estate - Stage 3 Lot 322
Latitude	-37.572555	-37.572575	-37.572596	-37.572080	-37.572071	-37.572013
Longitude	143.795308	143.794966	143.794677	143.795223	143.795223	143.794730
Layer / Reduced Level	1500mm Below	300mm Below	150mm Below	150mm Below	FSL	FSL
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay
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	1.93	1.88	1.89	1.93	1.92
Field Moisture Content %	15.6	25.1	32.8	14.6	15.7	17.0
Field Dry Density (FDD) t/m ³	1.68	1.54	1.42	1.65	1.67	1.65
Peak Converted Wet Density t/m ³	2.05	2.02	1.98	1.98	2.03	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.5	-1.0	0.0	2.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	95.0	95.5	95.5	95.5	95.0	95.5
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: AGT60067-16
Issue Number: 1
Date Issued: 23/12/2021
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 803
Date Sampled: 21/12/2021
Dates Tested: 21/12/2021 - 22/12/2021
Sampling Method: RMS T100 - AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard
Site Selection: Selected by Client
Material: Salvage Clay
Material Source: In Situ



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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	60067-70	60067-71	60067-72
Date Tested	21/12/2021	21/12/2021	21/12/2021
Time Tested	10:00	13:00	13:10
Test Request #/Location	Alluvium Estate - Stage 3 Lot 315	Alluvium Estate - Stage 3 Lot 315	Alluvium Estate - Stage 3 Lot 320
Latitude	-37.571779	-37.571795	-37.571962
Longitude	143.795834	143.795851	143.795415
Layer / Reduced Level	600mm Below	300mm Below	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage 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	1.93	2.06	2.12
Field Moisture Content %	24.0	25.3	17.8
Field Dry Density (FDD) t/m ³	1.55	1.65	1.80
Peak Converted Wet Density t/m ³	1.98	1.99	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.5	0.0	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.5	103.5	102.0
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: AGT60067-17
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: Lot numbers corrected
Date Issued: 30/03/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 804
Date Sampled: 22/12/2021 7:30
Dates Tested: 22/12/2021 - 22/12/2021
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
Material: Salvage Clay
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-73	60067-74	60067-75
Date Tested	22/12/2021	22/12/2021	22/12/2021
Time Tested	10:00	10:10	10:20
Test Request #/Location	Alluvium Estate Stage 3 Lot 325	Alluvium Estate Stage 3 Lot 324	Alluvium Estate Stage 3 Lot 323
Latitude	-37.571976	-37.5712000	-37.571999
Longitude	143.795205	143.794969	143.794792
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown 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	1.92	1.90	1.88
Field Moisture Content %	12.9	15.8	15.8
Field Dry Density (FDD) t/m ³	1.70	1.64	1.62
Peak Converted Wet Density t/m ³	1.90	1.99	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	5.0	2.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	101.0	95.0	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: AGT60067-18
Issue Number: 1
Date Issued: 17/01/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 806
Date Sampled: 12/01/2022
Dates Tested: 12/01/2022 - 13/01/2022
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
Material: Salvage Clay
Material Source: Import



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	60067-76	60067-77	60067-78	60067-79
Date Tested	12/01/2022	12/01/2022	12/01/2022	12/01/2022
Time Tested	**	**	**	**
Test Request #/Location	Alluvium Estate - Stage 3 Lot 316	Alluvium Estate - Stage 3 Lot 316	Alluvium Estate - Stage 3 Lot 316	Alluvium Estate - Stage 3 Lot 316
Latitude	-37.572165	-37.572188	-37.572359	-37.572372
Longitude	143.795763	143.795834	143.795728	143.795806
Layer / Reduced Level	1.2m Below FSL	900mm Below FSL	600mm Below FSL	300mm Below FSL
Thickness of Layer (mm)	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	2.18	2.04	1.97	1.97
Field Moisture Content %	16.1	25.4	20.0	18.1
Field Dry Density (FDD) t/m ³	1.88	1.63	1.64	1.67
Peak Converted Wet Density t/m ³	2.07	1.99	1.99	1.97
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	0.0	2.0	2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	105.5	102.5	98.5	100.0
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: AGT60067-19
Issue Number: 1
Date Issued: 07/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355

Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 814
Date Sampled: 27/01/2022

Dates Tested: 27/01/2022 - 28/01/2022
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Specification: 95% Standard
Site Selection: RC 316.10
Material: Brown Silty Clay
Material Source: Onsite



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-80	60067-81	60067-82
Date Tested	27/01/2022	27/01/2022	27/01/2022
Time Tested	14:00	14:10	14:20
Test Request #/Location	Alluvium Estate Stage 3 Lot 315	Alluvium Estate Stage 3 Lot 316	Alluvium Estate Stage 3 Lot 317
Latitude	-37.57249	-37.57246	-37.57246
Longitude	143.79454	143.79466	143.79477
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown 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	1.94	1.98	2.01
Field Moisture Content %	22.1	23.4	21.8
Field Dry Density (FDD) t/m ³	1.59	1.60	1.65
Peak Converted Wet Density t/m ³	2.04	2.07	2.09
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	95.0	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: AGT60067-20
Issue Number: 1
Date Issued: 18/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 822
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 16/02/2022
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
Material: Brown Silty Clay
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	60067-83	60067-84	60067-85	60067-86	60067-87	60067-88
Date Tested	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022
Time Tested	08:30	08:45	09:10	09:20	09:30	09:45
Test Request #/Location	Alluvium Estate - Stage 3 Lot 303	Alluvium Estate - Stage 3 Lot 303	Alluvium Estate - Stage 3 Lot 306	Alluvium Estate - Stage 3 Lot 306	Alluvium Estate - Stage 3 Lot 307	Alluvium Estate - Stage 3 Lot 307
Latitude	-37.57184	-37.57184	-37.57180	-37.57180	-37.57185	-37.57185
Longitude	143.79403	143.79403	143.79454	143.79454	143.79479	143.79479
Layer / Reduced Level	Finish	300 below	Finish	300 below	Finish	300below
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
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	2.10	2.11	1.96	1.96	2.23	2.26
Field Moisture Content %	8.9	8.8	16.5	16.0	10.1	9.0
Field Dry Density (FDD) t/m ³	1.93	1.94	1.68	1.69	2.03	2.07
Peak Converted Wet Density t/m ³	2.03	2.02	1.93	1.94	2.15	2.17
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	4.0	4.5	5.0	5.0	4.0	4.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	103.5	104.5	101.5	101.0	104.0	104.5
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: AGT60067-20
Issue Number: 1
Date Issued: 18/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 822
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 16/02/2022
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
Material: Brown Silty Clay
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	60067-89	60067-90	60067-91	60067-92	60067-93	60067-94
Date Tested	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022
Time Tested	09:55	10:10	10:20	10:35	10:45	11:00
Test Request #/Location	Alluvium Estate - Stage 3 Lot 304	Alluvium Estate - Stage 3 lot 304	Alluvium Estate - Stage 3 Lot 304	Alluvium Estate - Stage 3 Lot 305	Alluvium Estate - Stage 3 Lot 305	Alluvium Estate - Stage 3 Lot 305
Latitude	-37.57205	-37.57205	-37.57205	-37.57181	-37.57181	-37.57181
Longitude	143.79403	143.79403	143.79403	143.79435	143.79435	143.79435
Layer / Reduced Level	Finish	300 below	900 below	Finish	300 below	900 below
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
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	1.97	1.96	1.98	2.07	2.14	2.12
Field Moisture Content %	13.6	14.6	14.1	15.5	15.1	14.9
Field Dry Density (FDD) t/m ³	1.73	1.71	1.74	1.79	1.86	1.85
Peak Converted Wet Density t/m ³	1.99	2.00	2.08	2.09	2.11	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	3.0	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	99.0	98.0	95.0	99.0	101.5	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: AGT60067-21
Issue Number: 1
Date Issued: 18/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 821
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 14/02/2022
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
Material: Salvage 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	60067-95	60067-96	60067-97	60067-98
Date Tested	11/02/2022	11/02/2022	11/02/2022	11/02/2022
Time Tested	13:00	13:10	13:15	13:20
Test Request #/Location	Alluvium Estate - Stage 3 Lot 329	Alluvium Estate - Stage 3 Lot 330	Alluvium Estate - Stage 3 Lot 331	Alluvium Estate - Stage 3 Lot 332
Latitude	-37.572051	-37.572169	-37.572268	-37.572430
Longitude	143.793417	143.793366	143.793360	143.793328
Layer / Reduced Level	300 Below	300 Below	300 Below	300 Below
Thickness of Layer (mm)	150	150	150	150
Soil Description	Salvaged Clay	Salvaged Clay	Salvaged Clay	Salvaged Clay
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	1.99	2.05	2.03	2.15
Field Moisture Content %	19.8	19.1	19.1	14.8
Field Dry Density (FDD) t/m ³	1.66	1.72	1.70	1.87
Peak Converted Wet Density t/m ³	2.06	2.03	2.06	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	1.5	2.5	1.5	2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	96.5	101.0	98.5	103.5
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: AGT60067-22
Issue Number: 1
Date Issued: 18/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 823
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 17/02/2022
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
Material: Brown Silty Clay
Material Source: In Situ



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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	60067-99	60067-100	60067-101	60067-102	60067-103	60067-104
Date Tested	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022
Time Tested	11:10	11:15	11:20	11:25	11:30	11:40
Test Request #/Location	Alluvium Estate - Stage 3 Lot 308	Alluvium Estate - Stage 3 Lot 308	Alluvium Estate - Stage 3 Lot 309	Alluvium Estate - Stage 3 Lot 309	Alluvium Estate - Stage 3 Lot 310	Alluvium Estate - Stage 3 Lot 310
Latitude	-37.57188	-37.57188	-37.57189	-37.57189	-37.57191	-37.57191
Longitude	143.79496	143.79496	143.79510	143.79510	143.79525	143.79525
Layer / Reduced Level	Finish	300 below	Finish	300 below	Finish	300 below
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
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	2.18	2.19	1.99	1.99	1.96	1.98
Field Moisture Content %	19.4	15.6	15.6	15.3	19.0	17.2
Field Dry Density (FDD) t/m ³	1.82	1.89	1.72	1.73	1.64	1.69
Peak Converted Wet Density t/m ³	2.12	2.16	1.98	1.99	1.92	1.95
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	2.5	2.5	3.0	3.0	5.0	5.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	103.0	101.5	100.0	100.0	101.5	101.5
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: AGT60067-22
Issue Number: 1
Date Issued: 18/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 823
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 17/02/2022
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
Material: Brown Silty Clay
Material Source: In Situ



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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	60067-105	60067-106	60067-107	60067-108	60067-109	60067-110
Date Tested	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022
Time Tested	11:45	11:50	11:55	12:00	12:05	12:10
Test Request #/Location	Alluvium Estate - Stage 3 Lot 311	Alluvium Estate - Stage 3 Lot 311	Alluvium Estate - Stage 3 Lot 312	Alluvium Estate - Stage 3 Lot 312	Alluvium Estate - Stage 3 Lot 313	Alluvium Estate - Stage 3 Lot 313
Latitude	-37.57197	-37.57197	-37.57192	-37.57192	-37.57192	-37.57192
Longitude	143.79533	143.79533	143.79544	143.79544	143.79555	143.79555
Layer / Reduced Level	Finish	300 below	Finish	300 below	Finish	300 below
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
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	1.96	1.98	2.06	2.12	1.95	1.95
Field Moisture Content %	16.4	14.7	18.5	16.2	18.6	16.5
Field Dry Density (FDD) t/m ³	1.69	1.73	1.74	1.83	1.65	1.67
Peak Converted Wet Density t/m ³	2.07	2.06	2.05	2.10	2.02	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	1.5	2.0	1.5	1.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	95.0	96.5	100.5	101.0	96.5	96.0
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: AGT60067-23
Issue Number: 1
Date Issued: 21/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 824
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 14/02/2022
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
Material: Brown Silty Clay
Material Source: In Situ



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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	60067-111	60067-112	60067-113	60067-114
Date Tested	11/02/2022	11/02/2022	11/02/2022	11/02/2022
Time Tested	**	**	**	**
Test Request #/Location	Alluvium Estate Stage 3 Lot 314	Alluvium Estate Stage 3 Lot 314	Alluvium Estate Stage 3 Lot 326	Alluvium Estate Stage 3 Lot 326
Latitude	-37.57205	-37.57205	-37.57227	-37.57227
Longitude	143.79573	143.79573	143.79408	143.79408
Layer / Reduced Level	300 below	Finish	300 below	Finish
Thickness of Layer (mm)	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	2.00	1.96	1.95	1.93
Field Moisture Content %	15.1	14.0	12.8	14.5
Field Dry Density (FDD) t/m ³	1.74	1.72	1.73	1.69
Peak Converted Wet Density t/m ³	1.95	1.95	2.00	1.89
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	4.0	2.5	3.5	4.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	103.0	100.5	97.5	102.5
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: AGT60067-23
Issue Number: 1
Date Issued: 21/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 824
Date Sampled: 11/02/2022
Dates Tested: 11/02/2022 - 14/02/2022
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
Material: Brown Silty Clay
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	60067-115	60067-116	60067-117	60067-118
Date Tested	11/02/2022	11/02/2022	11/02/2022	11/02/2022
Time Tested	**	**	**	**
Test Request #/Location	Alluvium Estate Stage 3 Lot 327	Alluvium Estate Stage 3 Lot 327	Alluvium Estate Stage 3 Lot 328	Alluvium Estate Stage 3 Lot 328
Latitude	-37.57245	-37.57245	-37.57256	-37.57256
Longitude	143.57245	143.57245	143.79399	143.79399
Layer / Reduced Level	300 below	Finish	Finish	300 below
Thickness of Layer (mm)	150	150	150	150
Soil Description	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay	Brown Silty Clay
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	2.06	2.07	1.96	1.97
Field Moisture Content %	15.4	13.7	13.5	18.2
Field Dry Density (FDD) t/m ³	1.78	1.82	1.73	1.66
Peak Converted Wet Density t/m ³	1.98	2.01	1.96	1.96
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	4.0	4.5	2.5	3.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	103.5	103.0	100.0	100.5
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: AGT60067-24
Issue Number: 1
Date Issued: 18/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 826
Date Sampled: 14/02/2022
Dates Tested: 14/02/2022 - 15/02/2022
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
Material: Salvage Clay
Material Source: Import



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-119	60067-120	60067-121
Date Tested	14/02/2022	14/02/2022	14/02/2022
Time Tested	14:30	14:40	14:45
Test Request #/Location	Alluvium Estate - Stage 3 Lot 333	Alluvium Estate - Stage 3 Lot 334	Alluvium Estate - Stage 3 Lot 335
Latitude	-37.571931	-37.572077	-37.572035
Longitude	143.792938	143.793064	143.793355
Layer / Reduced Level	150 mm Below FSL	150 mm Below FSL	150 mm Below FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Salvaged CLAY	Salvaged CLAY	Salvaged 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	1.94	1.92	2.03
Field Moisture Content %	22.1	18.0	15.7
Field Dry Density (FDD) t/m ³	1.58	1.62	1.75
Peak Converted Wet Density t/m ³	1.98	1.90	1.99
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.5	5.5	5.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	97.5	100.5	102.0
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: AGT60067-25
Issue Number: 1
Date Issued: 21/02/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 828
Date Sampled: 15/02/2022
Dates Tested: 15/02/2022 - 18/02/2022
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
Material: Salvaged CLAY
Material Source: In Situ



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Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-122	60067-123	60067-124
Date Tested	15/02/2022	15/02/2022	15/02/2022
Time Tested	08:00	08:05	08:10
Test Request #/Location	Alluvium Estate - Stage 3 Lot 301	Alluvium Estate - Stage 3 Lot 301	Alluvium Estate - Stage 3 Lot 302
Latitude	-37.572210	-37.572311	-37.572464
Longitude	143.793782	143.793760	143.793784
Layer / Reduced Level	150mm Below	FSL	150mm Below
Thickness of Layer (mm)	150	150	150
Soil Description	Salvaged CLAY	Salvaged CLAY	Salvaged 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	2.08	2.19	2.02
Field Moisture Content %	18.8	20.0	19.7
Field Dry Density (FDD) t/m ³	1.76	1.83	1.69
Peak Converted Wet Density t/m ³	2.10	2.10	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-0.5	1.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.5	104.0	100.5
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: AGT60067-26
Issue Number: 1
Date Issued: 06/03/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 843
Date Sampled: 04/03/2022
Dates Tested: 04/03/2022 - 04/03/2022
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
Material: Salvage Clay
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	60067-125	60067-126	60067-127	60067-128
Date Tested	04/03/2022	04/03/2022	04/03/2022	04/03/2022
Time Tested	10:45	10:50	10:55	11:00
Test Request #/Location	Alluvium Estate - Stage 3 LOT 335	Alluvium Estate - Stage 3 LOT 334	Alluvium Estate - Stage 3 LOT 333	Alluvium Estate - Stage 3 LOT 332
Latitude	-37.57185	-37.57189	-37.57194	-37.57206
Longitude	143.79306	143.79321	143.79329	143.79325
Layer / Reduced Level	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage Clay	Salvage Clay
Test Depth (mm)	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	1.94	1.90	2.01	2.03
Field Moisture Content %	20.7	20.4	20.0	22.7
Field Dry Density (FDD) t/m ³	1.61	1.57	1.68	1.65
Peak Converted Wet Density t/m ³	1.99	1.95	2.00	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	1.0	1.5	0.5	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	97.5	97.0	100.5	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: AGT60067-26
Issue Number: 1
Date Issued: 06/03/2022
Client: Wayne Horne Earthmoving
 3 Trewin Street, Wendouree VIC 3355
Project Number: AGT60067
Project Name: Alluvium Estate Stage 3
Project Location: Alluvium Estate Stage 3
Work Request: 843
Date Sampled: 04/03/2022
Dates Tested: 04/03/2022 - 04/03/2022
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
Material: Salvage Clay
Material Source: Onsite



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 NATA Accredited Laboratory Number: 20457

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	60067-129	60067-130	60067-131
Date Tested	04/03/2022	04/03/2022	04/03/2022
Time Tested	11:10	11:20	11:30
Test Request #/Location	Alluvium Estate - Stage 3 LOT 331	Alluvium Estate - Stage 3 LOT 330	Alluvium Estate - Stage 3 LOT 329
Latitude	-37.57216	-37.57225	-37.57234
Longitude	143.79323	143.79321	143.79321
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	Salvage Clay	Salvage Clay	Salvage 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	2.01	2.28	2.30
Field Moisture Content %	21.9	16.7	14.6
Field Dry Density (FDD) t/m ³	1.65	1.96	2.01
Peak Converted Wet Density t/m ³	2.03	2.19	2.21
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	104.5	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