MACQUARIE GEOTECH

LEVEL 1 INSPECTION & TESTING REPORT
OFFICER FIELDS STAGE 5 & 6
OFFICER, VICTORIA

Prepared for Winslow Constructions Pty Ltd



MACQUARIE GEOTECH

PROJECT DETAILS

Project Reference	GSE1302.1			
Project Testing Laboratory	Melbourne East Laboratory			
Project Title	Officer Fields Estate Stages 5 & 6 (Level 1)			
Project Location	Officer Fields Estate, Officer, VIC 3809 (City of Casey)			
Period which report covers	*Start Date*	03/03/2025	*End Date*	6/6/2025
Report Number	GSE1302.1 Level 1 Report		*Rev No.*	00
Date of Issue	4th December			

CLIENT DETAILS

Client Name	Winslow Constructions Pty Ltd
Client Address	Building C; Level 3; 20 Jura Way, Clyde North VIC 3978
Project Principal (if applicable)	
Client Project Number (if applicable)	

This document presents the results of the Level 1 Inspection and Testing performed by Macquarie Geotechnical Pty Ltd for the above mentioned project and client, as the nominated project Geotechnical Inspection & Testing Authority (GITA). This report is detailed for the sole use of the intended recipient(s). Should you have any questions related to this report please do not hesitate to contact the undersigned.

If you are not the intended recipient, any use, distribution, disclosure or copying of this report is strictly prohibited.

If you have received this report in error, please delete and destroy all copies (including attachments) and notify us immediately by return e-mail or telephone on +61 2 6332 2011.

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Attached: Limitations of Geotechnical Site Investigation

Appendix A – SITE LAYOUT / SITE PLANS

Appendix B – TEST SUMMARY

Appendix C – TEST REPORTS

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References:

AS3798 (2007) Guidelines on Earthworks for Residential and Commercial Developments.

AS1289 Methods of Testing Soils for Engineering Purposes.

1. INTRODUCTION

Macquarie Geotechnical Pty Ltd has been engaged by Winslow Constructions Pty Ltd to act as the Geotechnical Inspection and Testing Authority (GITA) on the Proposed Subdivision at Officer Fields Estate Stages 5 & 6, Officer.

The objectives as the GITA is to undertake Level 1 inspections and testing to confirm that the placement methodology and material suitability are completed in accordance with the site specific plans and specifications and that of the requirements of AS3798 (2007) 'Guidelines on Earthworks for Commercial and Residential Developments' for the placement of the Fill materials within the work area in accordance with the site specifications and Inspection and Test Plans (ITP's).

2. PROJECT OVERVIEW

The project is located at Officer Fields Stages 5 & 6, (City of Casey).

It is understood that the project involves the construction of bulk earth works include removing rocks, levelling the ground, and preparing the site for installation of fill materials. Macquarie Geotech was engaged to provide Level 1 Inspection and Testing services for these components of the project. Authorisation to proceed was provided by Winslow Constructions Pty Ltd (the 'Client').

Level 1 Inspection & Testing, as defined in AS3798 (2007) 'Guidelines on Earthworks for Commercial and Residential Developments' provides for full time inspection of the construction of controlled fill and compaction testing in accordance with AS1289 'Methods of Testing Soils for Engineering Purposes' and AS1726 (1993) 'Geotechnical Site Investigations'.

Macquarie Geotech performed the role of the project Geotechnical Inspection & Testing Authority (GITA) with all Level 1 Inspection and Testing services described in this report undertaken by an experienced GITA site representative.

3. SPECIFICATIONS AND DOCUMENTATION

Macquarie Geotechnical Pty. Ltd. undertook supervision acting as the Geotechnical Inspection and Testing Authority (GITA) in accordance with the following specifications, drawings and ITPs:

3.1. SPECIFICATIONS

- AS3798 "Guidelines on Earthworks for Commercial and Residential Developments" (2017).

3.2. DRAWINGS

- 2001433-06-R&D-REV_D Issued for Tender 06/03/2025
- 2001433-06-R&D-REV_H Issued for Tender 25/092025
-

4. CONFORMANCE CRITERIA

4.1. COMPACTION AND MOISTURE CONTENT

All materials used within the construction were required to be compacted and conditioned to achieve the minimum acceptance limits as defined in AS3798:2007 Table 5.1 as follows:

- Residential Lot Fill – 95% relative to Standard Compaction
- Pavement General Fill – 95% relative to Standard Compaction
- Pavement Subgrade – 98% relative to Standard Compaction

Fill materials to be placed in Maximum 300mm compacted layers unless otherwise specified on the drawings.
Where tests fail to confirm the required relative compaction, the areas are to be reconditioned, recompacted and retested.

4.2. PROOF ROLL INSPECTIONS

Proof roll inspections to be undertaken as directed by the principal as indicated in the drawings, specifications and ITPs by the GITA and Clients representative.

The area(s) to be deemed as acceptable where no visible deflection, heaving or shoving is observed and where inspection has been undertaken and that the areas are free from vegetation such as roots and organic soils, moisture affected and collapsible soils.

4.3. CONSTRUCTION MATERIALS

Materials used in construction must be assessed to identify the following material characteristics:

- Identify fill Material suitability (engineering property) including cohesion.
- Free of building debris and vegetative matter (cleanliness) of the material.
- Free of distinguished oversize rock particles.
- Examining the material moisture reactivity.

4.4. BENCHING AND BATTERING

Throughout the pad construction, fill placed within the earthworks lots is to be keyed into adjacent fill blocks through benching to ensure adequate keying.

In addition material is to be placed and compacted throughout the extent of the pad to allow batters to be shaped within the compacted material zone. Where required material is to be extended past the edges of the pad to allow battering.

5. INSPECTION AND TESTING RESULTS

5.1. SUBGRADE PREPARATION

Macquarie Geotechnical observed subgrade preparation, which involved the removal of all loose surficial fill, topsoil, soft materials, vegetation.

The exposed subgrade surface was trimmed, levelled, and compacted to a condition suitable as support for the placement of the initial layers of engineered fil, by the contractor. The exposed subgrade was visually assessed by the on-site GITA representative throughout the project.

The subgrade was then proof rolled in the presence of the on-site GITA prior to placement of fill. The majority of the areas were generally found to comply with no visual signs of rutting, springing, or deflections. The areas that were observed to be soft were excavated until a suitable subgrade was achieved. The areas that were found to be wet were ripped and allowed to dry prior to placement of subsequent fill layers.

5.2. CONSTRUCTION MATERIALS

The fill material used was nominated by the on-site contractor. With the fill was sourced from cut to fill operations and various stockpiles from previous stages works. The material was observed to comprise silty/CLAY and Gravelly/Silty/CLAY, medium to high plasticity, brown mottled grey/orange, and generally around the inferred OMC. The site won cut to fill materials comprised Silty CLAY, typically brown/white/orange mottled and ranging from dry to wet of the soils inferred OMC.

5.3. INSPECTION OF FILL SOURCE MATERIALS

Macquarie Geotechnical performed visual assessment of the fill source materials to identify the following:

- material suitability
- materials free of building debris and vegetative matter
- oversize rock particles
- fill moisture.

5.4. MATERIAL SUITABILITY

The fill materials were noted to be compliant with AS3798 Section 4.0 for the intent and purpose of general filling. Visual/tactile assessments were conducted to identify the condition of the fill used during the placement.

5.5. BUILDING DEBRIS & VEGETATIVE MATTER

A small area of the site contained remains of a tree and vegetation matter, this was removed from the fill subgrade, stockpiled and taken to a suitable dump point. No building debris or further vegetation matter was observed within the fill sources.

5.6. OVERSIZE PARTICLES

No oversized particles were observed within the fill sources.

5.7. FILL MOISTURE

The fill source was assessed to range from dry to wet with the optimum moisture content, depending on the source of the material. Portions of the fill material that were found to be dry were moisture conditioned using a water cart prior to placement. Fill material observed to be wet of the optimum moisture was allowed to dry out where required.

5.8. CONTAMINATION TESTING

The project contractor undertook contamination testing of the fill materials conform to the relevant EPA guidelines.

5.9. FILL CONSTRUCTION

The contractor had the following plant available on-site during the construction period for use in the fill placement.

- Padfoot Roller
- Compactor
- Dozer
- Grader
- Watercart
- Excavator

5.10. CLIMATE

During fill placement, the weather conditions ranged from cool to sunny. Occasional rainfall events were observed.

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5.11. COMPACTION CONTROL & MOISTURE TESTING RESULTS

In general, all areas were found to achieve the minimum target density ratio of 95% Standard Compaction.

The material was moisture conditioned to allow compaction and to reduce over wet materials or dry materials which could become collapsible after placement as per the site requirements.

Throughout the process and/or at the completion if the day's production, compaction control testing was performed to assess the achieved density ratio of each layer. The on-site GITA nominated the locations and performed each test.

Testing comprised a total of 18 density tests using a nuclear moisture-density gauge and 18 laboratory compaction tests (AS1289.5.8.1 and AS1289 5.7.1).

A summary of the field density tests performed for the project is presented in Appendix B, Field density and compaction control testing reports are presented in Appendix C. It should be noted that the tests are a representation of the fill placed and support the visual assessment of the works completed.

5.12. FINAL SURFACE LEVELS

Observations were made by a Macquarie Geotech staff member that filling had been complete up to the nominated finished levels as per confirmation provided from the contractor's site foreman. The observed final levels are the constructed finished surface levels of the controlled fill.

It should be noted that the overall fill depths are estimated using onsite visual tactile methods and may not be a true representation of fill depths given that conditions on site may change over time. True fill depths should be obtained from the contractor's survey data.

Macquarie Geotechnical also recommend that the surface be covered or maintained if left exposed to reduce the risk of cracking or moisture release or inflow.

6. CONCLUSION

Macquarie Geotechnical as the acting Geotechnical Inspection & Testing Authority (GITA) is of the opinion that the works, as far as it's been able to determine comply with the specifications, drawings and site direction in regards to the inspections and the testing completed throughout the above mentioned period of the earthwork's construction program.

Such inspection and testing was undertaken in accordance with AS3798 - Guidelines on Earthworks for Commercial and Residential Developments, for Level 1 testing and apply to the period of which the observations where made and do not include continued maintenance and protection of the works.

We trust the foregoing is sufficient for your present purposes, and if you have any questions, please contact the undersigned.

Prepared By



Mark Longfield
Laboratory Manager

7. UNDERSTANDING level 1 inspection & testing

The purpose of performing Level 1 Inspection and Testing is to ensure compliance of the fill with the specification. The engagement of a Geotechnical Inspection Testing Authority (GITA) allows the contractor to perform their role in the construction of the filling operation while the GITA monitors the quality control process of the fill placement. The visual observations of thorough processes and work practices by the contractor allows the GITA to approve the subsequent placement of fill without having to wait for the completion of testing and the extended time it takes to get a test result back. The GITA will, however, carry out random spot checks of the filling operations throughout the day's production as confirmation that the placement procedures and the fill moisture content is appropriate. At the end of a day's production the GITA will sign off the completed works as satisfactory. Any failed tests will result in that area of operation requiring rectification in the following mornings activities. This may be as simple as extra rolling with compaction plant if moisture conditioning is suitable. Sometimes these areas may be retested if the GITA feels it is necessary.

While AS3798 (2007) is a guideline on the minimum requirements of filling on commercial and residential developments, some projects require a more detailed project specification to deal with site specific issues. While moisture conditioning of fill sources aids in the ease with which compaction is achieved, it is not necessarily a physical characteristic that determines if the placed fill is acceptable. In some situations, the moisture requirement is an extremely important function of the final constructed product. In these situations, a specific project specification should apply to the project as detailed by the designing geotechnical engineer. These are typical of clay liners for wetlands, dams, landfill liners and caps and an array of other engineering situations. Creating a consolidated platform of which is similar to equivalent surrounding natural conditions is the primary aim of level one processes, preventing the occurrence of differential ground movements to footing structures.

Level 1 Inspection & Testing requires full time inspection and testing of the fill placement undertaken on a site. Macquarie Geotech (project GITA) are notified daily (or at the completion of each day's work) by the project foreman where subsequent days of fill placement under Level 1 is to occur. On projects that rely upon the importation of a fill source, there can be delays in the receipt of sufficient materials to warrant fill placement works which may result in periods of time where a GITA representative is not required on site. It is the contractor's responsibility to notify the GITA when works proceed and their attendance on site is required again. A GITA relies upon the integrity of the contractor to advise when site attendance is required and makes all reasonable visual attempts to assess if the works are the same as the previous day's attendance.

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LIMITATIONS OF GEOTECHNICAL SITE INVESTIGATION

Scope of Services

This report has been prepared for the Client in accordance with the Services Engagement Form (SEF), between the Client and Macquarie Geotechnical.

Reliance on Data

Macquarie Geotechnical has relied upon data and other information provided by the Client and other individuals. Macquarie Geotechnical has not verified the accuracy or completeness of the data, except as otherwise stated in the report. Recommendations in the report are based on the data.

Macquarie Geotechnical will not be liable in relation to incorrect recommendations should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed.

Geotechnical Investigation

Findings of Geotechnical Investigations are based extensively on judgment and experience. Geotechnical reports are prepared to meet the specific needs of individual clients. This report was prepared expressly for the Client and expressly for the Clients purposes.

This report is based on a subsurface investigation, which was designed for project-specific factors. Unless further geotechnical advice is obtained this report cannot be applied to an adjacent site nor can it be used when the nature of any proposed development is changed.

Limitations of Site investigation

As a result of the limited number of sub-surface excavations or boreholes there is the possibility that variations may occur between test locations. The investigation undertaken is an estimate of the general profile of the subsurface conditions. The data derived from the investigation and laboratory testing are extrapolated across the site to form a geological model. This geological model infers the subsurface conditions and their likely behavior with regard to the proposed development.

The actual conditions at the site might differ from those inferred to exist.

No subsurface exploration program, no matter how comprehensive, can reveal all subsurface details and anomalies.

Time Dependence

This report is based on conditions, which existed at the time of subsurface exploration. Construction operations at or adjacent to the site, and natural events such as floods, or groundwater fluctuations, may also affect subsurface conditions, and thus the continuing adequacy of a geotechnical report.

Macquarie Geotechnical should be kept appraised of any such events, and should be consulted for further geotechnical advice if any changes are noted.

Avoid Misinterpretation

A geotechnical engineer or engineering geologist should be retained to work with other design professionals explaining relevant geotechnical findings and in reviewing the adequacy of their plans and specifications relative to geotechnical issues.

No part of this report should be separated from the Final Report.

Sub-surface Logs

Sub-surface logs are developed by geoscientific professionals based upon their interpretation of field logs and laboratory evaluation of field samples. These logs should not under any circumstances be redrawn for inclusion in any drawings.

Geotechnical Involvement During Construction

During construction, excavation frequently exposes subsurface conditions. Geotechnical consultants should be retained through the construction stage, to identify variations if they are exposed.

Report for Benefit of Client

The report has been prepared for the benefit of the Client and no other party. Other parties should not rely upon the report or the accuracy or completeness of any recommendations and should make their own enquiries and obtain independent advice in relation to such matters

Macquarie Geotechnical assumes no responsibility and will not be liable to any other person or organisations for or in relation to any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisations arising from matters dealt with or conclusions expressed in the report.

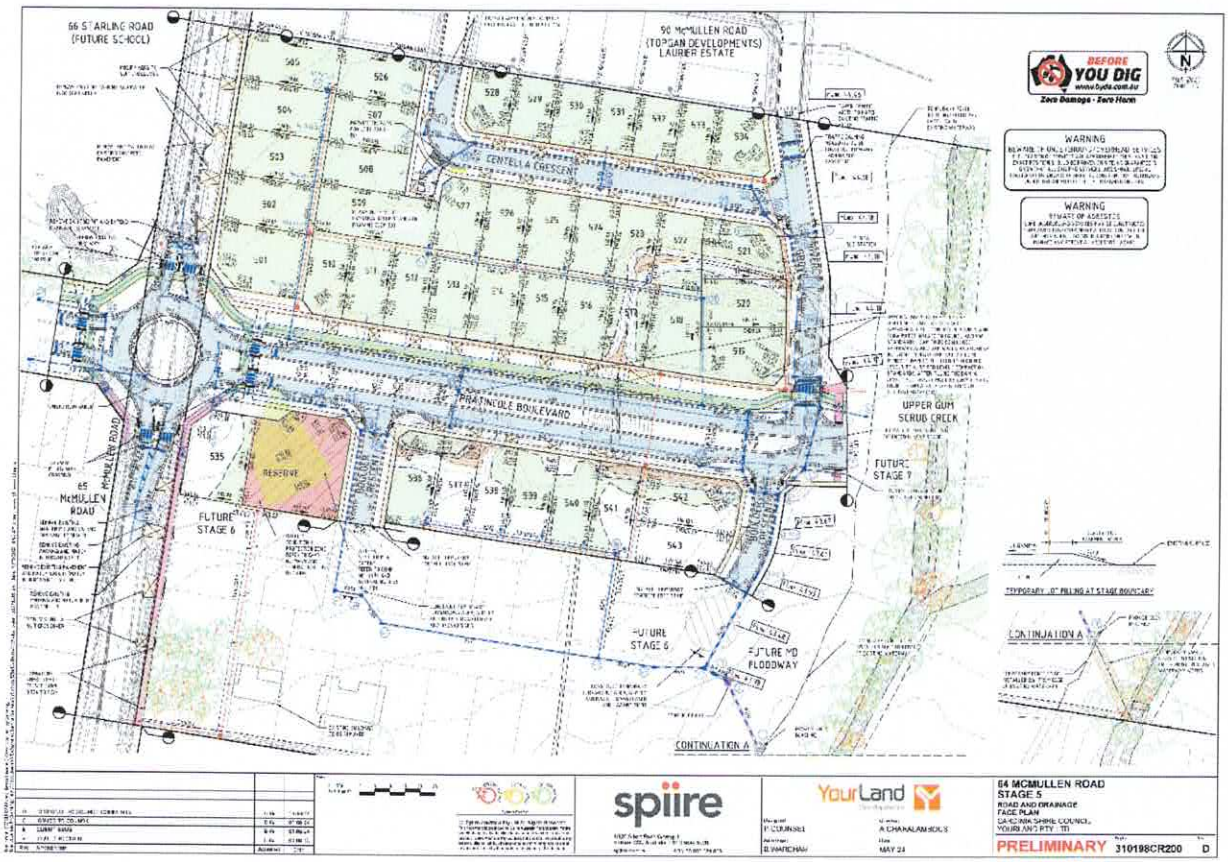
Other limitations

Macquarie Geotechnical will not be liable to update or revise the report to take into account any events or emergent circumstances or facts occurring or becoming apparent after the date of the report.

Other Information

For further information reference should be made to "Guidelines for the Provision of Geotechnical Information in Construction Contracts" published by the Institution of Engineers Australia, 1987.

Appendix A


66 STARLINE ROAD (FUTURE SCHOOL)
90 McMULLEN ROAD (TOPSAN DEVELOPMENTS) LAUREL ESTATE
CENTELLA CRESCENT
PRATINCOLE BOULEVARD
McMULLEN ROAD
65 McMULLEN ROAD
RESERVE
FUTURE STAGE 6
FUTURE STAGE 6
FUTURE STAGE 7
FUTURE MD FLOODWAY
UPPER GUM SCRUB CREEK
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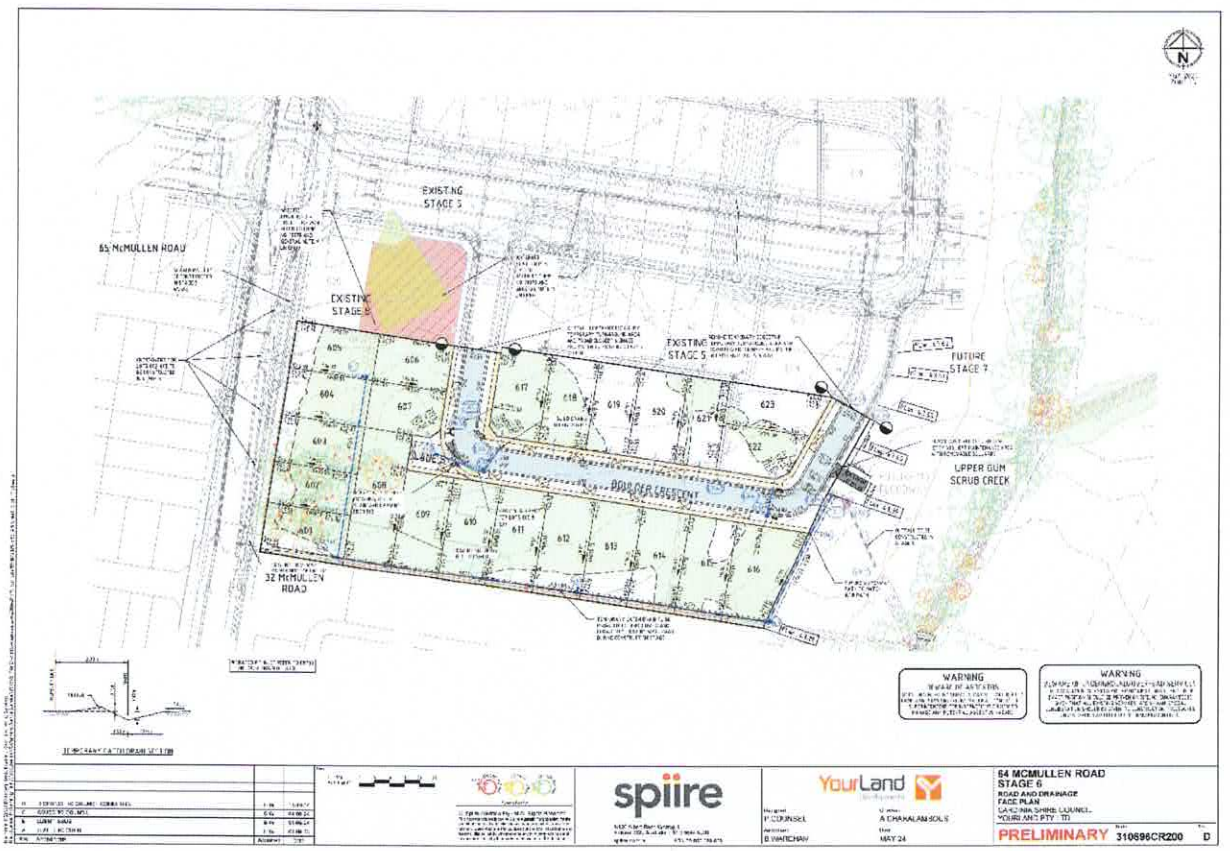
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32 McMULLEN ROAD
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YourLand
64 McMULLEN ROAD
STAGE 6
ROAD AND DRAINAGE
FACE PLAN
CAMDEN SHIRE COUNCIL
YOURLAND PTY LTD
PRELIMINARY 310696CR200 D

Project Summary Report

Report Date: 13/01/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Specification: 95% Std
Test Methods: AS 1289 5.7.1 STD & 5.8.1 & 2.1.1

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Macquarie Geotechnical Pty Ltd
Melbourne East Laboratory
113 Wedgewood Road Hallam Victoria 3803
Phone: 0450 925 137
Email: troy@groundscience.com.au

Lot #	Sample #	Date Sampled	Location	Location		Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	1302.1-S1	06/03/2025	LOT 510	**	**	**	1ST LAYER	99.5	3.0	14.2	2.05
**	1302.1-S2	06/03/2025	LOT 512	**	**	**	1ST LAYER	101.0	2.5	14.7	2.10
**	1302.1-S3	06/03/2025	LOT 514	**	**	**	1ST LAYER	99.5	2.5	13.4	2.06
**	1302.1-S4	07/03/2025	LOT 509	**	**	**	1ST LAYER	100.0	-1.5	10.1	2.14
**	1302.1-S5	07/03/2025	LOT 527	**	**	**	1ST LAYER	99.0	0.0	12.9	2.14
**	1302.1-S6	07/03/2025	LOT 525/524	**	**	**	1ST LAYER	97.5	0.5	16.3	2.09
**	1302.1-S7	12/03/2025	LOT 542	**	**	**	1ST LAYER	102.5	1.5	5.8	2.01
**	1302.1-S8	12/03/2025	LOT 525	**	**	**	1ST LAYER	102.0	1.0	11.8	2.00
**	1302.1-S9	12/03/2025	LOT 532	**	**	**	1ST LAYER	103.0	3.0	11.9	2.00
**	1302.1-S10	14/03/2025	LOT 522	**	**	**	1ST LAYER	95.0	-0.5	12.7	1.99
**	1302.1-S11	14/03/2025	LOT 518	**	**	**	1ST LAYER	97.0	-0.5	12.8	2.03
**	1302.1-S12	15/03/2025	LOT 516	**	**	**	2ND	101.0	4.0	9.1	2.03
**	1302.1-S13	15/03/2025	LOT 511	**	**	**	2ND	101.5	4.5	8.4	2.03
**	1302.1-S14	15/03/2025	LOT 508	**	**	**	3RD	100.5	4.5	9.7	2.00
**	1302.1-S15	15/03/2025	LOT 522	**	**	**	4TH	103.0	4.5	11.4	2.00
**	1302.1-S16	15/03/2025	LOT 518	**	**	**	5TH	99.0	2.0	12.0	2.06
**	1302.1-S17	15/03/2025	LOT 520	**	**	**	6TH	99.5	2.0	10.1	2.06
**	1302.1-S18	18/03/2025	LOT 513	**	**	**	7TH LAYER	99.5	2.5	15.8	2.01
**	1302.1-S19	18/03/2025	LOT 521	**	**	**	7TH LAYER	101.5	2.5	12.4	2.00
**	1302.1-S20	18/03/2025	LOT 535	**	**	**	7TH LAYER	100.0	0.5	10.0	2.01
**	1302.1-S21	20/03/2025	LOT 518	**	**	**	7 TH LAYER	104.0	7.0	5.6	2.00
**	1302.1-S22	20/03/2025	LOT 518	**	**	**	5TH LAYER	102.0	3.0	6.8	2.00
**	1302.1-S23	20/03/2025	LOT 519	**	**	**	5TH LAYER	103.0	6.5	9.7	1.98
**	1302.1-S24	20/03/2025	LOT 504	**	**	**	1ST LAYER	101.5	3.0	9.6	1.98
**	1302.1-S25	20/03/2025	LOT 501	**	**	**	1ST LAYER	101.5	3.0	10.0	1.98
**	1302.1-S26	24/03/2025	LOT 536	**	**	**	1ST LAYER	98.0	-0.5	18.5	2.00
**	1302.1-S27	24/03/2025	LOT 537	**	**	**	2ND LAYER	99.5	0.0	19.7	2.00
**	1302.1-S28	24/03/2025	LOT 536	**	**	**	3RD LAYER	98.5	-0.5	19.5	2.00
**	1302.1-S29	24/03/2025	LOT 537	**	**	**	4TH LAYER	99.5	-0.5	20.1	2.00
**	1302.1-S30	26/03/2025	LOT 515	MIDDLE OF LOT	**	**	FINISHED SURFACE	104.5	2.5	18.1	2.01
**	1302.1-S31	26/03/2025	LOT 514	FRONT OF LOT	**	**	FINISHED SURFACE	101.5	0.0	18.9	2.00
**	1302.1-S32	26/03/2025	LOT 512	MIDDLE OF LOT	**	**	FINISHED SURFACE	101.0	1.0	18.5	2.01
**	1302.1-S33	26/03/2025	LOT 518	FRONT OF LOT	**	**	6TH LAYER	99.0	0.0	24.7	2.03
**	1302.1-S34	26/03/2025	LOT 519	MIDDLE OF LOT	**	**	6TH LAYER	95.5	-1.0	19.2	1.98
**	1302.1-S35	27/03/2025	LOT 526	FRONT OF LOT	**	**	2	99.0	2.0	11.9	2.09
**	1302.1-S36	27/03/2025	LOT 527	REAR OF LOT	**	**	2	97.5	0.5	15.4	2.01
**	1302.1-S37	27/03/2025	LOT 526/527	EDGE	**	**	2	95.0	0.5	12.5	1.99
**	1302.1-S38	28/03/2025	LOT 517	MIDDLE	**	REFER TO MARKED PLAN	3	104.0	3.0	16.0	2.10
**	1302.1-S39	28/03/2025	LOT 520	MIDDLE	**	REFER TO MARKED PLAN	3	101.0	3.5	14.1	2.01
**	1302.1-S40	28/03/2025	LOT 525	MIDDLE	**	REFER TO MARKED PLAN	3	96.0	0.5	10.4	1.98
**	1302.1-S41	31/03/2025	LOT 510	MIDDLE OF LOT	REFER TO MARKED PLAN	**	2	102.5	1.5	17.7	2.01
**	1302.1-S42	31/03/2025	LOT 502	MIDDLE OF LOT	REFER TO MARKED PLAN	**	2	101.0	2.0	16.5	1.98
**	1302.1-S43	31/03/2025	LOT 503	MIDDLE OF LOT	REFER TO MARKED PLAN	**	2	102.0	2.5	21.2	2.00
**	1302.1-S44	01/04/2025	LOT 505	FRONT OF LOT	REFER TO MARKED PLAN	**	FINISHED SURFACE	100.0	2.0	16.9	2.02
**	1302.1-S45	01/04/2025	LOT 507	**	REFER TO MARKED PLAN	**	FINISHED SURFACE	94.0	2.5	15.5	1.92
**	1302.1-S46	01/04/2025	LOT 506	REAR OF LOT	REFER TO MARKED PLAN	**	FINISHED SURFACE	96.5	2.0	14.4	1.97
**	1302.1-S47	02/04/2025	LOT 501	CENTRE	**	**	FINISHED SURFACE	95.5	2.5	15.1	1.95
**	1302.1-S48	02/04/2025	LOT 502	CENTRE	**	**	FINISHED SURFACE	98.0	0.5	14.9	2.01
**	1302.1-S49	02/04/2025	LOT 503	CENTRE	**	**	FINISHED SURFACE	97.5	2.0	14.8	1.98
**	1302.1-S50	03/04/2025	LOT 528	MIDDLE OF LOT	**	**	2	96.5	0.0	16.2	2.10

Lot #	Sample #	Date Sampled	Location	Location		Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	1302.1-S51	03/04/2025	LOT 529	MIDDLE OF LOT	**	**	2	97.0	0.0	14.3	2.08
**	1302.1-S52	03/04/2025	LOT 530	MIDDLE OF LOT	**	**	2	96.5	0.0	12.1	2.04
**	1302.1-S53	07/04/2025	LOT 522	MIDDLE	REFER TO MARKED PLAN	**	FINISHED SURFACE	97.5	3.0	9.6	2.01
**	1302.1-S54	07/04/2025	LOT 523	MIDDLE	REFER TO MARKED PLAN	**	FINISHED SURFACE	96.0	2.5	10.4	1.95
**	1302.1-S55	07/04/2025	LOT 532	MIDDLE	REFER TO MARKED PLAN	**	2	96.5	2.0	13.9	2.03
**	1302.1-S56	07/04/2025	LOT 533	MIDDLE	REFER TO MARKED PLAN	**	2	98.0	0.0	15.0	2.09
**	1302.1-S57	07/04/2025	LOT 534	MIDDLE	REFER TO MARKED PLAN	**	2	95.0	0.0	15.4	2.02
**	1302.1-S58	08/04/2025	LOT 541	MIDDLE OF LOT	REFER TO MARKED PLAN	**	2	95.5	1.5	9.3	1.97
**	1302.1-S59	08/04/2025	LOT 539	MIDDLE OF LOT	REFER TO MARKED PLAN	**	2	97.5	1.5	13.0	2.03
**	1302.1-S60	08/04/2025	LOT 537	MIDDLE OF LOT	REFER TO MARKED PLAN	**	2	95.5	1.5	12.6	1.99
**	1302.1-S61	09/04/2025	LOT 529/530	EDGE	**	**	FINISHED SURFACE	99.5	3.0	14.1	1.98
**	1302.1-S62	09/04/2025	LOT 531/532	EDGE	**	**	FINISHED SURFACE	96.5	2.5	12.6	1.96
**	1302.1-S63	09/04/2025	LOT 536/537	EDGE	**	**	FINISHED SURFACE	95.5	2.5	12.1	1.96
**	1302.1-S64	09/04/2025	LOT 538/539	EDGE	**	**	FINISHED SURFACE	95.0	2.5	12.4	1.97
**	1302.1-S65	09/04/2025	LOT 540/541	EDGE	**	**	FINISHED SURFACE	95.5	2.5	12.8	1.96
**	1302.1-S66	09/04/2025	LOT 617/618	EDGE	**	**	1	97.5	2.0	15.1	1.96
**	1302.1-S67	09/04/2025	LOT 620/621	EDGE	**	**	1	97.0	2.0	14.6	1.99
**	1302.1-S68	10/04/2025	LOT 601/602	EDGE	**	**	1	96.0	0.0	20.6	1.97
**	1302.1-S69	10/04/2025	LOT 603/604	EDGE	**	**	1	96.0	0.0	18.4	1.97
**	1302.1-S70	10/04/2025	LOT 605	MIDDLE	**	**	1	95.0	0.0	20.6	1.96
**	1302.1-S71	02/05/2025	LOT 615	MIDDLE OF LOT	**	**	1	95.0	0.0	11.4	2.01
**	1302.1-S72	02/05/2025	LOT 613	MIDDLE OF LOT	**	**	1	95.0	-0.5	9.5	2.00
**	1302.1-S73	02/05/2025	LOT 611	MIDDLE OF LOT	**	**	1	98.5	0.0	12.5	2.07
**	1302.1-S74	07/05/2025	LOT 609/610	**	**	**	1	97.5	0.0	15.4	2.07
**	1302.1-S75	07/05/2025	LOT 609/610	**	**	**	2	95.5	-0.5	13.7	2.02
**	1302.1-S76	07/05/2025	LOT 611/612	**	**	**	1	97.0	-0.5	15.2	2.05
**	1302.1-S77	07/05/2025	LOT 611/612	**	**	**	2	97.5	0.0	14.9	2.08
**	1302.1-S78	27/05/2025	LOT 616	**	**	**	FSL	96.0	0.0	13.8	2.02
**	1302.1-S79	27/05/2025	LOT 615	**	**	**	FSL	97.0	0.5	10.2	2.02
**	1302.1-S80	27/05/2025	LOT 614	**	**	**	FSL	96.5	0.0	10.0	2.02
**	1302.1-S81	27/05/2025	LOT 613	**	**	**	FSL	99.0	1.0	10.3	2.02
**	1302.1-S82	27/05/2025	LOT 608	**	**	**	FSL	96.5	0.5	11.8	2.02

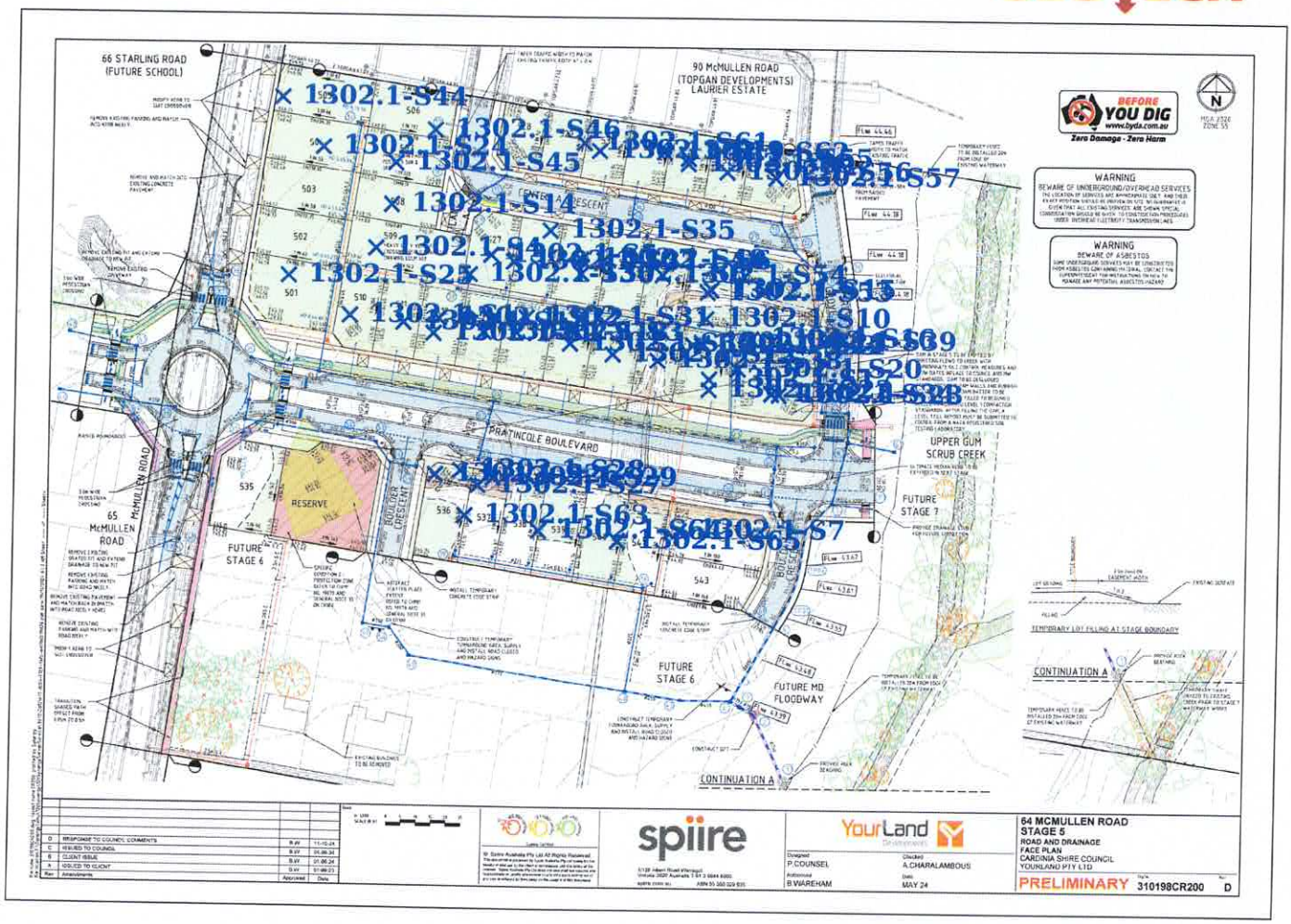
Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

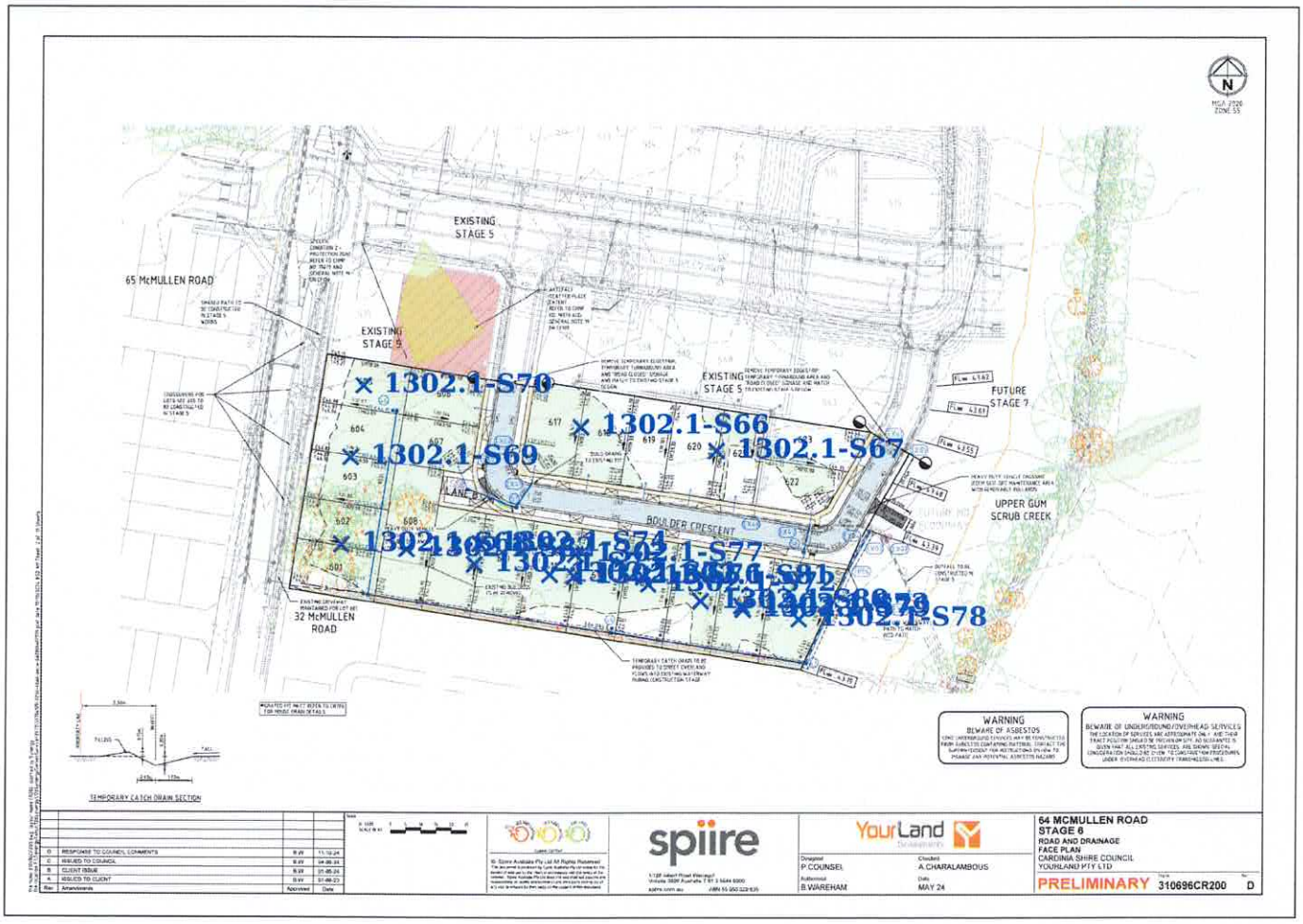
Sample Locations Plan

x - approximate test location



Sample Locations Plan

x - approximate test location



Material Test Report

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Accredited for compliance with ISO/IEC 17025 - Testing

NATA WORLD RECOGNISED ACCREDITATION

Approved Signatory: Mark Longfield
Laboratory Manager

Laboratory Number: 20436

Report Number: GSE1302.1-1
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason: ,
Date Issued: 12/01/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11116
Date Sampled: 06/03/2025
Dates Tested: 06/03/2025 - 11/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: Gravelly Clay
Material Source: IMPORTED-TOORAK AREA

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S1	1302.1-S2	1302.1-S3
Date Tested	06/03/2025	06/03/2025	06/03/2025
Time Tested	07:15	07:17	07:20
Test Request #/Location	LOT 510	LOT 512	LOT 514
Layer / Reduced Level	1ST LAYER	1ST LAYER	1ST LAYER
Thickness of Layer (mm)	200	200	200
Soil Description	Gravelly Clay	Gravelly Clay	Gravelly Clay
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	**	0
Field Wet Density (FWD) t/m^3	2.05	2.10	2.06
Field Moisture Content %	14.2	14.7	13.4
Field Dry Density (FDD) t/m^3	1.80	1.83	1.81
Peak Converted Wet Density t/m^3	2.06	2.07	2.07
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	3.0	2.5	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**99.5**	**101.0**	**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

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Material Test Report

Report Number: GSE1302.1-15
Issue Number: 1
Date Issued: 09/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11376
Date Sampled: 03/04/2025
Dates Tested: 03/04/2025 - 08/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: TOORAK

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NATA WORLD RECOGNISED ACCREDITATION

Approved Signatory: Troy Carnovale
Laboratory Manager
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S50	1302.1-S51	1302.1-S52
Date Tested	03/04/2025	03/04/2025	03/04/2025
Time Tested	**	**	**
Test Request #/Location	LOT 528	LOT 529	LOT 530
Chainage (m)	MIDDLE OF LOT	MIDDLE OF LOT	MIDDLE OF LOT
Location Offset (m)	**	**	**
Layer / Reduced Level	2	2	2
Thickness of Layer (mm)	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	2.10	2.08	2.04
Field Moisture Content %	16.2	14.3	12.1
Field Dry Density (FDD) t/m^3	1.81	1.82	1.82
Peak Converted Wet Density t/m^3	2.18	2.14	2.12
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**96.5**	**97.0**	**96.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

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Material Test Report

Report Number: GSE1302.1-22
Issue Number: 1
Date Issued: 12/05/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11624
Date Sampled: 07/05/2025
Dates Tested: 07/05/2025 - 09/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: ON SITE

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Approved Signatory: Grant Sloan
LABORATORY 2IC

NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	1302.1-S74	1302.1-S75	1302.1-S76	1302.1-S77
Date Tested	07/05/2025	07/05/2025	07/05/2025	07/05/2025
Time Tested	**	**	**	**
Test Request #/Location	LOT 609/610	LOT 609/610	LOT 611/612	LOT 611/612
Chainage (m)	**	**	**	**
Location Offset (m)	**	**	**	**
Layer / Reduced Level	1	2	1	2
Thickness of Layer (mm)	300	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m^3	2.07	2.02	2.05	2.08
Field Moisture Content %	15.4	13.7	15.2	14.9
Field Dry Density (FDD) t/m^3	1.79	1.77	1.78	1.81
Peak Converted Wet Density t/m^3	2.12	2.11	2.12	2.13
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	-0.5	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**97.5**	**95.5**	**97.0**	**97.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Remarks	**	**	**	**

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

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Material Test Report

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Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Mark Longfield
Laboratory Manager

Laboratory Number: 20436

Report Number: GSE1302.1-3
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason: ,
Date Issued: 12/01/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11202
Date Sampled: 15/03/2025 7:45
Dates Tested: 15/03/2025 - 18/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: LOT 518,519,520,522 BACK FILL TESTING(OLD WATER POND)
Specification: 95% Std
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	1302.1-S12	1302.1-S13	1302.1-S14	1302.1-S15	1302.1-S16	1302.1-S17
Date Tested	15/03/2025	15/03/2025	15/03/2025	15/03/2025	15/03/2025	15/03/2025
Time Tested	07:30	07:30	07:45	08:00	08:15	08:30
Test Request #/Location	LOT 516	LOT 511	LOT 508	LOT 522	LOT 518	LOT 520
Layer / Reduced Level	2ND	2ND	3RD	4TH	5TH	6TH
Thickness of Layer (mm)	325	325	325	325	325	325
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	300	300	300	300	300	300
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m^3	2.03	2.03	2.00	2.00	2.06	2.06
Field Moisture Content %	9.1	8.4	9.7	11.4	12.0	10.1
Field Dry Density (FDD) t/m^3	1.86	1.87	1.82	1.79	1.84	1.87
Peak Converted Wet Density t/m^3	2.02	2.00	1.99	1.94	2.09	2.07
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**	**
Moisture Variation (Wv) %	4.0	4.5	4.5	4.5	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	**101.0**	**101.5**	**100.5**	**103.0**	**99.0**	**99.5**
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

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Material Test Report

Report Number:	**GSE1302.1-5**
Issue Number:	2 - *This version supersedes all previous issues*
Reissue Reason:	,
Date Issued:	12/01/2026
Client:	WINSLOW CONSTRUCTORS PTY LTD
Project Number:	GSE1302.1
Project Name:	OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location:	OFFICER
Work Request:	11166
Date Sampled:	12/03/2025 7:00
Dates Tested:	12/03/2025 - 24/03/2025
Sampling Method:	AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification:	95% Std
Site Selection:	Selected by Client
Location:	OFFICER
Material:	Gravelly Clay
Material Source:	IMPORTED

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Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Mark Longfield
Laboratory Manager
Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S7	1302.1-S8	1302.1-S9
Date Tested	12/03/2025	12/03/2025	12/03/2025
Time Tested	07:15	07:20	07:25
Test Request #/Location	LOT 542	LOT 525	LOT 532
Layer / Reduced Level	1ST LAYER	1ST LAYER	1ST LAYER
Thickness of Layer (mm)	200	200	200
Soil Description	Gravelly Clay	Gravelly Clay	Gravelly Clay
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	4	0
Field Wet Density (FWD) t/m^3	2.01	2.00	2.00
Field Moisture Content %	5.8	11.8	11.9
Field Dry Density (FDD) t/m^3	1.90	1.79	1.79
Peak Converted Wet Density t/m^3	1.96	**	1.95
Adjusted Peak Converted Wet Density t/m^3	**	1.96	**
Moisture Variation (Wv) %	1.5	**	3.0
Adjusted Moisture Variation %	**	1.0	**
Hilf Density Ratio (%)	**102.5**	**102.0**	**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

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Material Test Report

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NATA WORLD RECOGNISED ACCREDITATION

Approved Signatory: Mark Longfield
Laboratory Manager

Laboratory Number: 20436

Report Number: GSE1302.1-6
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason: ,
Date Issued: 12/01/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11210
Date Sampled: 18/03/2025 7:00
Dates Tested: 18/03/2025 - 25/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: THESES TEST LAYERS ARE BIG WATER POND BACKFILL.(LOT 518/522/519/520)

Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S18	1302.1-S19	1302.1-S20
Date Tested	18/03/2025	18/03/2025	18/03/2025
Time Tested	**	**	**
Test Request #/Location	LOT 513	LOT 521	LOT 535
Layer / Reduced Level	7TH LAYER	7TH LAYER	7TH LAYER
Thickness of Layer (mm)	325	325	325
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	300	300	300
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	2.01	2.00	2.01
Field Moisture Content %	15.8	12.4	10.0
Field Dry Density (FDD) t/m^3	1.74	1.78	1.83
Peak Converted Wet Density t/m^3	2.02	1.97	2.01
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.5	2.5	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**99.5**	**101.5**	**100.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

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Material Test Report

Report Number: GSE1302.1-2
Issue Number: 1
Date Issued: 18/03/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11185
Date Sampled: 14/03/2025 7:00
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

Remarks: OLD POND
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT

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Approved Signatory: Grant Sloan
LABORATORY 2IC
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S10	1302.1-S11	
Date Tested	14/03/2025	14/03/2025	
Time Tested	08:00	08:05	
Test Request #/Location	LOT 522	LOT 518	
Layer / Reduced Level	1ST LAYER	1ST LAYER	
Thickness of Layer (mm)	325	325	
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	
Test Depth (mm)	300	300	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	1.99	2.03	
Field Moisture Content %	12.7	12.8	
Field Dry Density (FDD) t/m^3	1.77	1.80	
Peak Converted Wet Density t/m^3	2.10	2.08	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	-0.5	-0.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**95.0**	**97.0**	
Compaction Method	**Standard**	**Standard**	
Remarks	**	**	

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

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Material Test Report

Report Number: GSE1302.1-4
Issue Number: 1
Date Issued: 19/03/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11145
Date Sampled: 07/03/2025 10:30
Dates Tested: 07/03/2025 - 18/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: Gravelly Clay
Material Source: IMPORTED

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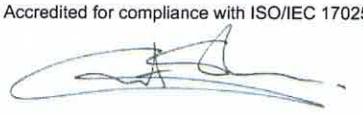

Approved Signatory: Grant Sloan
LABORATORY 2IC
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S4	1302.1-S5	1302.1-S6
Date Tested	07/03/2025	07/03/2025	07/03/2025
Time Tested	10:30	10:35	10:40
Test Request #/Location	LOT 509	LOT 527	LOT 525/524
Layer / Reduced Level	1ST LAYER	1ST LAYER	1ST LAYER
Thickness of Layer (mm)	200	200	200
Soil Description	Gravelly Clay	Gravelly Clay	Gravelly Clay
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	2.14	2.14	2.09
Field Moisture Content %	10.1	12.9	16.3
Field Dry Density (FDD) t/m^3	1.94	1.90	1.79
Peak Converted Wet Density t/m^3	2.14	2.16	2.14
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	-1.5	0.0	0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**100.0**	**99.0**	**97.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

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Material Test Report

Report Number: GSE1302.1-8
Issue Number: 1
Date Issued: 28/03/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11285
Date Sampled: 24/03/2025 12:00
Dates Tested: 24/03/2025 - 27/03/2025
Sampling Method: RMS T100/TS 02794.01 - AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: LOT 536,537 DAM BACKFILL
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown

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Approved Signatory: Grant Sloan
LABORATORY 2IC
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	1302.1-S26	1302.1-S27	1302.1-S28	1302.1-S29
Date Tested	24/03/2025	24/03/2025	24/03/2025	24/03/2025
Time Tested	12:15	12:20	13:20	13:25
Test Request #/Location	LOT 536	LOT 537	LOT 536	LOT 537
Layer / Reduced Level	1ST LAYER	2ND LAYER	3RD LAYER	4TH LAYER
Thickness of Layer (mm)	325	325	325	325
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	300	300	300	300
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0
Field Wet Density (FWD) t/m^3	2.00	2.00	2.00	2.00
Field Moisture Content %	18.5	19.7	19.5	20.1
Field Dry Density (FDD) t/m^3	1.69	1.67	1.67	1.66
Peak Converted Wet Density t/m^3	2.05	2.01	2.03	2.01
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**
Moisture Variation (Wv) %	-0.5	0.0	-0.5	-0.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	**98.0**	**99.5**	**98.5**	**99.5**
Compaction Method	**Standard**	**Standard**	**Standard**	**Standard**
Remarks	**	**	**	**

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

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Material Test Report

Report Number: GSE1302.1-7
Issue Number: 1
Date Issued: 28/03/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11268
Date Sampled: 20/03/2025 14:00
Dates Tested: 20/03/2025 - 26/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: S22 AND S23 TESTS ARE FROM HALF OF EXSISTED WATER POND (SOIL MOVEMENTS CAN BE SEEN AT THE TIME OF TESTING-WHEN MOVING VEHICLES AND S22 CAN NOT SEE ANY SOI MOVEMENTS WHEN MOVING VEHICLES)
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: IMPORTED AND SITE CUT

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Approved Signatory: Grant Sloan
LABORATORY 2IC
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	1302.1-S21	1302.1-S22	1302.1-S23	1302.1-S24	1302.1-S25
Date Tested	20/03/2025	20/03/2025	20/03/2025	20/03/2025	20/03/2025
Time Tested	14:00	14:10	14:15	14:50	15:00
Test Request #/Location	LOT 518	LOT 518	LOT 519	LOT 504	LOT 501
Layer / Reduced Level	7 TH LAYER	5TH LAYER	5TH LAYER	1ST LAYER	1ST LAYER
Thickness of Layer (mm)	325	325	325	200	200
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	Gravelly Clay	Gravelly Clay
Test Depth (mm)	300	300	300	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m^3	2.00	2.00	1.98	1.98	1.98
Field Moisture Content %	5.6	6.8	9.7	9.6	10.0
Field Dry Density (FDD) t/m^3	1.89	1.87	1.81	1.81	1.80
Peak Converted Wet Density t/m^3	1.92	1.96	1.93	1.95	1.96
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	7.0	3.0	6.5	3.0	3.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**104.0**	**102.0**	**103.0**	**101.5**	**101.5**
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

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Material Test Report

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Report Number: GSE1302.1-21
Issue Number: 1
Date Issued: 07/05/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11585
Date Sampled: 02/05/2025
Dates Tested: 02/05/2025 - 06/05/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: ON SITE

Approved Signatory: Troy Carnovale
Laboratory Manager
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S71	1302.1-S72	1302.1-S73
Date Tested	02/05/2025	02/05/2025	02/05/2025
Time Tested	**	**	**
Test Request #/Location	LOT 615	LOT 613	LOT 611
Chainage (m)	MIDDLE OF LOT	MIDDLE OF LOT	MIDDLE OF LOT
Location Offset (m)	**	**	**
Layer / Reduced Level	1	1	1
Thickness of Layer (mm)	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	2.01	2.00	2.07
Field Moisture Content %	11.4	9.5	12.5
Field Dry Density (FDD) t/m^3	1.80	1.82	1.84
Peak Converted Wet Density t/m^3	2.12	2.10	2.10
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	0.0	-0.5	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**95.0**	**95.0**	**98.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

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Material Test Report

Report Number: GSE1302.1-20
Issue Number: 1
Date Issued: 22/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11443
Date Sampled: 10/04/2025
Dates Tested: 10/04/2025 - 17/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: Silty Clay
Material Source: TOORAK

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Approved Signatory: Troy Carnovale
Laboratory Manager
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S68	1302.1-S69	1302.1-S70
Date Tested	10/04/2025	10/04/2025	10/04/2025
Time Tested	**	**	**
Test Request #/Location	LOT 601/602	LOT 603/604	LOT 605
Chainage (m)	EDGE	EDGE	MIDDLE
Location Offset (m)	**	**	**
Layer / Reduced Level	1	1	1
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	**
Field Wet Density (FWD) t/m^3	1.97	1.97	1.96
Field Moisture Content %	20.6	18.4	20.6
Field Dry Density (FDD) t/m^3	1.63	1.66	1.63
Peak Converted Wet Density t/m^3	2.05	2.05	2.06
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**96.0**	**96.0**	**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

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Material Test Report

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Approved Signatory: Troy Carnovale
Laboratory Manager
NATA Accredited Laboratory Number: 20436

Report Number: GSE1302.1-19
Issue Number: 1
Date Issued: 22/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11427
Date Sampled: 09/04/2025
Dates Tested: 09/04/2025 - 17/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: Silty Clay
Material Source: TOORAK, SANDRINGHAM

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	1302.1-S61	1302.1-S62	1302.1-S63	1302.1-S64	1302.1-S65
Date Tested	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025
Time Tested	**	**	**	**	**
Test Request #/Location	LOT 529/530	LOT 531/532	LOT 536/537	LOT 538/539	LOT 540/541
Chainage (m)	EDGE	EDGE	EDGE	EDGE	EDGE
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	FINISHED SURFACE	FINISHED SURFACE	FINISHED SURFACE	FINISHED SURFACE	FINISHED SURFACE
Thickness of Layer (mm)	200	200	180	180	180
Soil Description	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	175	175	150	150	150
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	**	**	0	0
Field Wet Density (FWD) t/m^3	1.98	1.96	1.96	1.97	1.96
Field Moisture Content %	14.1	12.6	12.1	12.4	12.8
Field Dry Density (FDD) t/m^3	1.74	1.74	1.75	1.75	1.74
Peak Converted Wet Density t/m^3	1.99	2.03	2.06	2.07	2.06
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	3.0	2.5	2.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**99.5**	**96.5**	**95.5**	**95.0**	**95.5**
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

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Material Test Report

Report Number: GSE1302.1-18
Issue Number: 1
Date Issued: 17/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11430
Date Sampled: 09/04/2025
Dates Tested: 09/04/2025 - 11/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: Silty Clay
Material Source: TOORAK, SANDRINGHAM

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NATA WORLD RECOGNISED ACCREDITATION

Approved Signatory: Troy Carnovale
Laboratory Manager
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S66	1302.1-S67	
Date Tested	09/04/2025	09/04/2025	
Time Tested	**	**	
Test Request #/Location	LOT 617/618	LOT 620/621	
Chainage (m)	EDGE	EDGE	
Location Offset (m)	**	**	
Layer / Reduced Level	1	1	
Thickness of Layer (mm)	300	300	
Soil Description	Silty Clay	Silty Clay	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m^3	1.96	1.99	
Field Moisture Content %	15.1	14.6	
Field Dry Density (FDD) t/m^3	1.70	1.73	
Peak Converted Wet Density t/m^3	2.02	2.05	
Adjusted Peak Converted Wet Density t/m^3	**	**	
Moisture Variation (Wv) %	2.0	2.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	**97.5**	**97.0**	
Compaction Method	**Standard**	**Standard**	
Remarks	**	**	

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

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Material Test Report

Report Number: GSE1302.1-17
Issue Number: 1
Date Issued: 17/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11413
Date Sampled: 07/04/2025
Dates Tested: 07/04/2025 - 14/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: TOORAK

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NATA WORLD RECOGNISED ACCREDITATION

Approved Signatory: Troy Carnovale
Laboratory Manager
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	1302.1-S53	1302.1-S54	1302.1-S55	1302.1-S56	1302.1-S57
Date Tested	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
Time Tested	**	**	**	**	**
Test Request #/Location	LOT 522	LOT 523	LOT 532	LOT 533	LOT 534
Chainage (m)	MIDDLE	MIDDLE	MIDDLE	MIDDLE	MIDDLE
Location Offset (m)	REFER TO MARKED PLAN	REFER TO MARKED PLAN	REFER TO MARKED PLAN	REFER TO MARKED PLAN	REFER TO MARKED PLAN
Layer / Reduced Level	FINISHED SURFACE	FINISHED SURFACE	2	2	2
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m^3	2.01	1.95	2.03	2.09	2.02
Field Moisture Content %	9.6	10.4	13.9	15.0	15.4
Field Dry Density (FDD) t/m^3	1.84	1.77	1.78	1.81	1.75
Peak Converted Wet Density t/m^3	2.06	2.03	2.10	2.13	2.13
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	3.0	2.5	2.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**97.5**	**96.0**	**96.5**	**98.0**	**95.0**
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

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Material Test Report

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Phone: 0450 925 137
Email: troy@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Troy Carnovale
Laboratory Manager
NATA Accredited Laboratory Number: 20436

Report Number: GSE1302.1-16
Issue Number: 1
Date Issued: 11/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11420
Date Sampled: 08/04/2025
Dates Tested: 08/04/2025 - 10/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: Silty Clay
Material Source: TOORAK

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S58	1302.1-S59	1302.1-S60
Date Tested	08/04/2025	08/04/2025	08/04/2025
Time Tested	**	**	**
Test Request #/Location	LOT 541	LOT 539	LOT 537
Chainage (m)	MIDDLE OF LOT	MIDDLE OF LOT	MIDDLE OF LOT
Location Offset (m)	REFER TO MARKED PLAN	REFER TO MARKED PLAN	REFER TO MARKED PLAN
Layer / Reduced Level	2	2	2
Thickness of Layer (mm)	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	1.97	2.03	1.99
Field Moisture Content %	9.3	13.0	12.6
Field Dry Density (FDD) t/m^3	1.81	1.79	1.77
Peak Converted Wet Density t/m^3	2.07	2.07	2.08
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**95.5**	**97.5**	**95.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

Moisture Variation Note:
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Material Test Report

Report Number: GSE1302.1-13
Issue Number: 2 - *This version supersedes all previous issues*
Reissue Reason: ,
Date Issued: 12/01/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11349
Date Sampled: 01/04/2025
Dates Tested: 01/04/2025 - 03/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: TOORAK

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NATA WORLD RECOGNISED ACCREDITATION
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Approved Signatory: Mark Longfield
Laboratory Manager
Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S44	1302.1-S45	1302.1-S46
Date Tested	01/04/2025	01/04/2025	01/04/2025
Time Tested	**	**	**
Test Request #/Location	LOT 505	LOT 507	LOT 506
Chainage (m)	FRONT OF LOT	**	REAR OF LOT
Location Offset (m)	REFER TO MARKED PLAN	REFER TO MARKED PLAN	REFER TO MARKED PLAN
Layer / Reduced Level	FINISHED SURFACE	FINISHED SURFACE	FINISHED SURFACE
Thickness of Layer (mm)	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	**	0
Field Wet Density (FWD) t/m^3	2.02	1.92	1.97
Field Moisture Content %	16.9	15.5	14.4
Field Dry Density (FDD) t/m^3	1.73	1.67	1.72
Peak Converted Wet Density t/m^3	2.02	2.04	2.04
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.0	2.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**100.0**	**94.0**	**96.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

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Material Test Report

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Report Number: GSE1302.1-14
Issue Number: 1
Date Issued: 08/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11363
Date Sampled: 02/04/2025
Dates Tested: 02/04/2025 - 03/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: TOORAK

Approved Signatory: Troy Carnovale
Laboratory Manager
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S47	1302.1-S48	1302.1-S49
Date Tested	02/04/2025	02/04/2025	02/04/2025
Time Tested	**	**	**
Test Request #/Location	LOT 501	LOT 502	LOT 503
Chainage (m)	CENTRE	CENTRE	CENTRE
Location Offset (m)	**	**	**
Layer / Reduced Level	FINISHED SURFACE	FINISHED SURFACE	FINISHED SURFACE
Thickness of Layer (mm)	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	1.95	2.01	1.98
Field Moisture Content %	15.1	14.9	14.8
Field Dry Density (FDD) t/m^3	1.70	1.75	1.73
Peak Converted Wet Density t/m^3	2.04	2.05	2.03
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.5	0.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**95.5**	**98.0**	**97.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

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Material Test Report

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Approved Signatory: Troy Carnovale
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Report Number: GSE1302.1-12
Issue Number: 1
Date Issued: 08/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11344
Date Sampled: 31/03/2025
Dates Tested: 31/03/2025 - 02/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: BRIGHTON, TOORAK

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S41	1302.1-S42	1302.1-S43
Date Tested	31/03/2025	31/03/2025	31/03/2025
Time Tested	**	**	**
Test Request #/Location	LOT 510	LOT 502	LOT 503
Chainage (m)	MIDDLE OF LOT	MIDDLE OF LOT	MIDDLE OF LOT
Location Offset (m)	REFER TO MARKED PLAN	REFER TO MARKED PLAN	REFER TO MARKED PLAN
Layer / Reduced Level	2	2	2
Thickness of Layer (mm)	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	2.01	1.98	2.00
Field Moisture Content %	17.7	16.5	21.2
Field Dry Density (FDD) t/m^3	1.71	1.70	1.65
Peak Converted Wet Density t/m^3	1.96	1.96	1.96
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	1.5	2.0	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**102.5**	**101.0**	**102.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

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Material Test Report

Report Number: GSE1302.1-11
Issue Number: 1
Date Issued: 02/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11335
Date Sampled: 28/03/2025
Dates Tested: 28/03/2025 - 01/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown
Material Source: BRIGHTON

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Approved Signatory: Grant Sloan
LABORATORY 2IC
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S38	1302.1-S39	1302.1-S40
Date Tested	28/03/2025	28/03/2025	28/03/2025
Time Tested	**	**	**
Test Request #/Location	LOT 517	LOT 520	LOT 525
Elevation (m)	REFER TO MARKED PLAN	REFER TO MARKED PLAN	REFER TO MARKED PLAN
Layer / Reduced Level	3	3	3
Thickness of Layer (mm)	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)			

Material Test Report

Report Number: GSE1302.1-10
Issue Number: 1
Date Issued: 02/04/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11319
Date Sampled: 27/03/2025
Dates Tested: 27/03/2025 - 01/04/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Location: OFFICER
Material: Silty Clay
Material Source: BRIGHTON, TOORAK

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Approved Signatory: Grant Sloan
LABORATORY 2IC
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1302.1-S35	1302.1-S36	1302.1-S37
Date Tested	27/03/2025	27/03/2025	27/03/2025
Time Tested	**	**	**
Test Request #/Location	LOT 526	LOT 527	LOT 526/527
Chainage (m)	FRONT OF LOT	REAR OF LOT	EDGE
Location Offset (m)	**	**	**
Layer / Reduced Level	2	2	2
Thickness of Layer (mm)	300	300	300
Soil Description	Silty Clay	Silty Clay	Silty Clay
Test Depth (mm)	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	6	0	0
Field Wet Density (FWD) t/m^3	2.09	2.01	1.99
Field Moisture Content %	11.9	15.4	12.5
Field Dry Density (FDD) t/m^3	1.87	1.74	1.77
Peak Converted Wet Density t/m^3	**	2.06	2.09
Adjusted Peak Converted Wet Density t/m^3	2.11	**	**
Moisture Variation (Wv) %	**	0.5	0.5
Adjusted Moisture Variation %	2.0	**	**
Hilf Density Ratio (%)	**99.0**	**97.5**	**95.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

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Material Test Report

Report Number: GSE1302.1-9
Issue Number: 1
Date Issued: 28/03/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1302.1
Project Name: OFFICER FIELDS ESTATE - STAGE 5 & 6 (LEVEL 1)
Project Location: OFFICER
Work Request: 11306
Date Sampled: 26/03/2025
Dates Tested: 26/03/2025 - 27/03/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Std
Site Selection: Selected by Client
Location: OFFICER
Material: silty CLAY, medium - high plasticity, brown

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NATA WORLD RECOGNISED ACCREDITATION

Approved Signatory: Grant Sloan
LABORATORY 2IC
NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	1302.1-S30	1302.1-S31	1302.1-S32	1302.1-S33	1302.1-S34
Date Tested	26/03/2025	26/03/2025	26/03/2025	26/03/2025	26/03/2025
Time Tested	**	**	**	**	**
Test Request #/Location	LOT 515	LOT 514	LOT 512	LOT 518	LOT 519
Chainage (m)	MIDDLE OF LOT	FRONT OF LOT	MIDDLE OF LOT	FRONT OF LOT	MIDDLE OF LOT
Location Offset (m)	**	**	**	**	**
Layer / Reduced Level	FINISHED SURFACE	FINISHED SURFACE	FINISHED SURFACE	6TH LAYER	6TH LAYER
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	**	0	0
Field Wet Density (FWD) t/m^3	2.01	2.00	2.01	2.03	1.98
Field Moisture Content %	18.1	18.9	18.5	24.7	19.2
Field Dry Density (FDD) t/m^3	1.71	1.68	1.70	1.63	1.66
Peak Converted Wet Density t/m^3	1.92	1.97	1.99	2.05	2.07
Adjusted Peak Converted Wet Density t/m^3	**	**	**	**	**
Moisture Variation (Wv) %	2.5	0.0	1.0	0.0	-1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	**104.5**	**101.5**	**101.0**	**99.0**	**95.5**
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

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