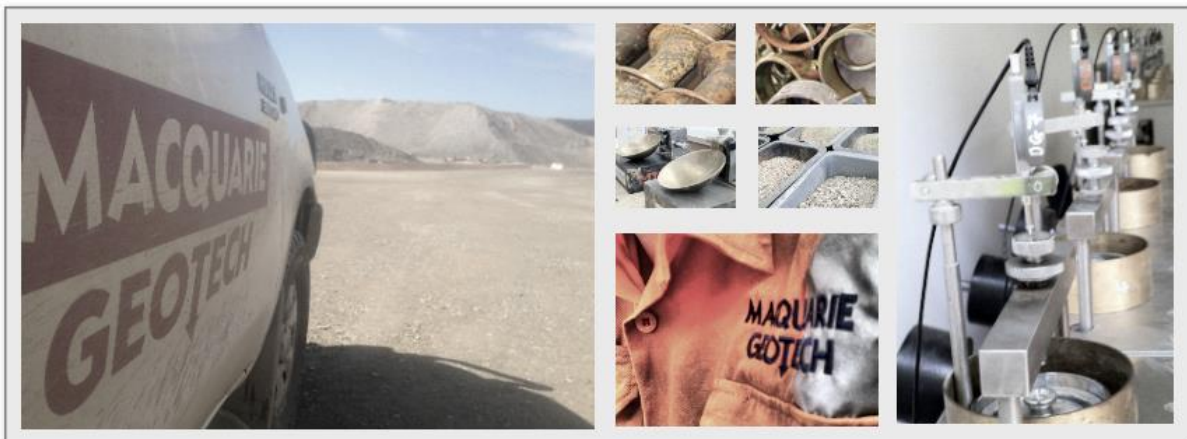


**LEVEL 1 INSPECTION & TESTING REPORT
SMITHS LANE STAGE 31
CLYDE NORTH, VICTORIA**

Prepared for Winslow Constructions Pty Ltd



PROJECT DETAILS

<i>Project Reference</i>	GSE1336.1		
<i>Project Testing Laboratory</i>	Melbourne East Laboratory		
<i>Project Title</i>	Smiths Lane Stage 31 (Level 1)		
<i>Project Location</i>	Smiths Lane Stage 31 Clyde North, VIC 3978 (City of Casey)		
<i>Period which report covers</i>	<i>Start Date</i>	11/4/2025	<i>End Date</i> 11/8/2025
<i>Report Number</i>	GSE1336.1 Level 1 Report	<i>Rev No.</i>	00
<i>Date of Issue</i>	27 th March		

CLIENT DETAILS

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

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.

TABLE OF CONTENTS

1. INTRODUCTION	4
2. PROJECT OVERVIEW	4
3. SPECIFICATIONS AND DOCUMENTATION	4
3.1. SPECIFICATIONS	4
3.2. DRAWINGS	4
4. CONFORMANCE CRITERIA	4
4.1. COMPACTION AND MOISTURE CONTENT	4
4.2. PROOF ROLL INSPECTIONS	5
4.3. CONSTRUCTION MATERIALS	5
4.4. BENCHING AND BATTERING	5
5. INSPECTION AND TESTING RESULTS	5
5.1. SUBGRADE PREPARATION	5
5.2. CONSTRUCTION MATERIALS	5
5.3. INSPECTION OF FILL SOURCE MATERIALS	6
5.4. MATERIAL SUITABILITY	6
5.5. BUILDING DEBRIS & VEGETATIVE MATTER	6
5.6. OVERSIZE PARTICLES	6
5.7. FILL MOISTURE	6
5.8. CONTAMINATION TESTING	6
5.9. FILL CONSTRUCTION	6
5.10. CLIMATE	6
5.11. COMPACTION CONTROL & MOISTURE TESTING RESULTS	7
5.12. FINAL SURFACE LEVELS	7
6. CONCLUSION	7
7. UNDERSTANDING level 1 inspection & testing	8

Attached: Limitations of Geotechnical Site Investigation
 Appendix A – SITE LAYOUT / SITE PLANS
 Appendix B – TEST SUMMARY
 Appendix C – TEST REPORTS

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 Smiths Lane Stage 31, Clyde North

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 Smiths Lane Stage 31 Clyde North, (City of Cardinia).

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 25/09/2025
-

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 200mm 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 fill, 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.

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 of 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 131 density tests using a nuclear moisture-density gauge and 131 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 were 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.

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 apprised 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

Project Summary Report



Report Date: 13/04/2026
 Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
 Project Name: SMITHS LANE - STAGE 31
 Project Location: CLYDE NORTH
 Specification: 95% Std
 Test Methods: AS 1289 5.7.1 STD & 5.8.1 & 2.1.1

Lot #	Sample #	Date Sampled	Location	Location	Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)	
**	1336.1-S1	11/04/2025	LOT 3080	**	**	1ST LAYER	101.0	2.0	20.7	2.10	
**	1336.1-S2	11/04/2025	LOT 3079	**	**	1ST LAYER	101.0	2.5	11.3	2.10	
**	1336.1-S3	11/04/2025	LOT 3099	**	**	1ST LAYER	101.0	2.5	14.0	2.09	
**	1336.1-S4	11/04/2025	LOT 3088	**	**	1ST LAYER	100.5	2.5	11.1	2.09	
**	1336.1-S5	14/04/2025	STAGE 31	Lot 3173	**	3	95.5	1.5	10.4	1.97	
**	1336.1-S6	14/04/2025	STAGE 31	Lot 3188	**	3	99.0	2.5	11.5	2.01	
**	1336.1-S7	03/06/2025	LOT 3146/3147	**	**	1	96.5	-2.5	19.6	1.99	
**	1336.1-S8	03/06/2025	LOT 3176/3177	**	**	1	95.5	0.0	12.1	2.01	
**	1336.1-S9	03/06/2025	LOT 3178/3179	**	**	1	95.0	-0.5	12.4	2.02	
**	1336.1-S10	04/06/2025	LOT 3096	**	**	1	96.5	-2.0	20.4	2.03	
**	1336.1-S11	04/06/2025	LOT 3094	**	**	1	97.0	-2.0	21.1	2.04	
**	1336.1-S12	04/06/2025	LOT 3092	**	**	1	93.5	-2.0	19.0	2.03	
**	1336.1-S13	05/06/2025	LOT 3134/3165	**	**	-0.66 FSL	LAYER 1	101.0	1.5	17.6	2.01
**	1336.1-S14	05/06/2025	LOT 3156/3157	**	**	**	LAYER 1	100.5	1.5	18.4	2.00
**	1336.1-S15	05/06/2025	LOT 3154	**	**	**	LAYER 1	101.5	1.5	17.7	2.01
**	1336.1-S16	05/06/2025	LOT 3169	**	**	**	LAYER 1	96.0	0.5	17.4	1.96
**	1336.1-S17	05/06/2025	LOT 3172	**	**	**	LAYER 1	97.5	0.5	17.5	2.00
**	1336.1-S18	05/06/2025	LOT 3151/3152	**	**	**	LAYER 1	96.5	1.5	15.4	1.96
**	1336.1-S19	06/06/2025	LOT 3153	**	**	**	1ST LAYER	95.0	0.0	14.1	2.01
**	1336.1-S20	06/06/2025	LOT 3155	**	**	**	1ST LAYER	96.0	0.5	14.1	2.04
**	1336.1-S21	06/06/2025	LOT 3159	**	**	**	1ST LAYER	95.5	0.5	14.0	2.04
**	1336.1-S22	06/06/2025	LOT 3116/3121	**	**	-0.5 FSL	1ST LAYER	99.5	0.0	20.2	2.01
**	1336.1-S23	06/06/2025	LOT 3120	**	**	-0.5 FSL	1ST LAYER	97.0	0.0	19.3	2.00
**	1336.1-S24	06/06/2025	LOT 3119	**	**	**	1ST LAYER	98.0	0.0	20.1	2.00
**	1336.1-S25	06/06/2025	LOT 3079	**	**	**	2ND LAYER	96.5	1.5	23.4	1.86
**	1336.1-S26	06/06/2025	LOT 3196	**	**	**	2 ND LAYER	97.0	2.0	21.9	1.86
**	1336.1-S27	06/06/2025	LOT 3197	**	**	**	2 ND LAYER	96.0	1.5	20.1	1.85
**	1336.1-S28	13/06/2025	LOT 3083	**	**	**	1 ST LAYER	97.5	0.5	11.2	2.13
**	1336.1-S29	13/06/2025	LOT 3082	**	**	**	1 ST LAYER	98.0	0.5	12.7	2.13
**	1336.1-S30	13/06/2025	LOT 3081	**	**	**	1 ST LAYER	99.5	0.5	11.4	2.13
**	1336.1-S31	13/06/2025	LOT 3080	**	**	**	1 ST LAYER	99.5	0.5	12.8	2.12
**	1336.1-S32	13/06/2025	LOT 3095	**	**	**	1 ST LAYER	99.0	-3.5	20.1	2.06
**	1336.1-S33	13/06/2025	LOT 3094	**	**	**	1 ST LAYER	100.0	-3.5	20.7	2.07
**	1336.1-S34	16/06/2025	LOT 3173/3174	**	**	-1.2 FSL	1ST LAYER	99.0	0.0	13.8	2.13
**	1336.1-S35	16/06/2025	LOT 3084/3085	**	**	-1.2 FSL	1ST LAYER	99.5	0.0	13.4	2.13
**	1336.1-S36	16/06/2025	LOT 3089/3090	**	**	-1.2 FSL	1ST LAYER	99.5	0.0	16.5	2.12
**	1336.1-S37	16/06/2025	LOT 3088	**	**	-0.9 FSL	2ND LAYER	98.5	-0.5	17.2	2.07
**	1336.1-S38	16/06/2025	LOT 3093	**	**	-0.88 FSL	2ND LAYER	98.0	0.5	14.4	2.06
**	1336.1-S39	16/06/2025	LOT 3094	**	**	-0.9 FSL	2ND LAYER	96.0	2.0	12.8	2.00
**	1336.1-S40	16/06/2025	LOT 3095	**	**	-0.9 FSL	2ND LAYER	96.0	0.0	12.8	2.06
**	1336.1-S41	16/06/2025	LOT 3191	**	**	-0.9 FSL	2ND LAYER	96.5	0.0	14.0	2.07
**	1336.1-S42	16/06/2025	LOT 3190/3189	**	**	-0.9 FSL	2ND LAYER	96.0	0.0	14.3	2.07
**	1336.1-S43	16/06/2025	LOT 3086	**	**	-0.9 FSL	2ND LAYER	96.5	0.0	13.1	2.08
**	1336.1-S44	18/06/2025	LOT 3070/3071	**	**	-1.1 FSL	2 ND LAYER	99.0	0.0	14.8	2.12
**	1336.1-S45	18/06/2025	LOT 3090	**	**	0.8 FSL	2 ND LAYER	98.5	0.0	16.9	2.11
**	1336.1-S46	18/06/2025	LOT 3072	**	**	0.8 FSL	2 ND LAYER	98.5	-0.5	16.3	2.11
**	1336.1-S47	19/06/2025	LOT 3096	**	**	**	3RD LAYER/-0.580 FSL	97.0	0.5	14.2	1.98
**	1336.1-S48	19/06/2025	LOT 3101	**	**	**	3RD LAYER	97.5	0.5	14.6	1.99
**	1336.1-S49	19/06/2025	LOT 3098	**	**	**	3RD LAYER	96.5	0.0	15.7	2.01
**	1336.1-S50	19/06/2025	LOT 3096	**	**	**	3RD LAYER/-0.550FSL	98.5	1.5	17.3	1.98
**	1336.1-S51	19/06/2025	LOT 3080/3081	**	**	**	3RD LAYER	99.0	2.0	14.4	2.00
**	1336.1-S52	19/06/2025	LOT 3100	**	**	**	3RD LAYER	101.5	2.5	15.0	1.99
**	1336.1-S53	20/06/2025	WATER RETAINING STRUCTURE-BATTERS	**	**	**	FSL	97.0	2.0	10.2	2.04
**	1336.1-S54	20/06/2025	WATER RETAINING STRUCTURE-BATTERS	**	**	**	FSL	97.0	2.0	11.3	2.04

Lot #	Sample #	Date Sampled	Location	Location		Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	1336.1-S55	20/06/2025	WATER RETAINING STRUCTURE-BATTERS	**	**	**	FSL	100.5	1.5	12.3	2.06
**	1336.1-S56	20/06/2025	WATER RETAINING STRUCTURE-BATTERS	**	**	**	FSL	100.5	1.5	12.6	2.05
**	1336.1-S57	20/06/2025	WATER RETAINING STRUCTURE-BATTERS	**	**	**	FSL	99.5	1.5	11.5	2.06
**	1336.1-S58	20/06/2025	WATER RETAINING STRUCTURE-BATTERS	**	**	**	FSL	98.5	1.5	14.9	2.03
**	1336.1-S59	20/06/2025	LOT 3093	**	**	**	3RD LAYER	101.0	0.0	14.4	2.10
**	1336.1-S60	20/06/2025	LOT 3095	**	**	**	3RD LAYER	99.5	0.0	14.6	2.09
**	1336.1-S61	23/06/2025	LOT 3083/3082	**	**	**	3RD LAYER	99.0	0.0	13.0	2.16
**	1336.1-S62	23/06/2025	LOT 3086	**	**	**	3RD LAYER	98.0	0.0	11.7	2.13
**	1336.1-S63	23/06/2025	LOT 3091	**	**	**	3RD LAYER	99.0	0.0	12.3	2.15
**	1336.1-S64	23/06/2025	LOT 3089	**	**	**	3RD LAYER	98.5	0.0	13.5	2.14
**	1336.1-S65	23/06/2025	BATTERS-WATER RETAINING STRUCTURE	**	**	**	FSL	100.5	3.0	11.2	2.02
**	1336.1-S66	23/06/2025	BATTERS-WATER RETAINING STRUCTURE	**	**	**	FSL	101.0	2.5	11.8	2.05
**	1336.1-S67	23/06/2025	BATTERS-WATER RETAINING STRUCTURE	**	**	**	FSL	103.5	4.0	10.0	2.06
**	1336.1-S68	23/06/2025	BATTERS-WATER RETAINING STRUCTURE	**	**	**	FSL	102.5	3.0	10.7	2.05
**	1336.1-S69	24/06/2025	LOT 3087	**	**	**	3RD LAYER	94.0	0.5	12.5	2.04
**	1336.1-S70	24/06/2025	LOT 3085	**	**	**	3RD LAYER	95.0	0.0	13.0	2.06
**	1336.1-S71	24/06/2025	LOT 3088	**	**	**	3RD LAYER	97.5	2.0	12.0	2.05
**	1336.1-S72	24/06/2025	LOT 3090	**	**	**	3RD LAYER	96.0	2.0	11.4	2.04
**	1336.1-S73	07/07/2025	LOT 3153	**	**	-0.480 FSL	2ND LAYER	101.0	0.0	15.5	2.14
**	1336.1-S74	07/07/2025	LOT 3151	**	**	**	2ND LAYER	97.5	0.0	15.0	2.05
**	1336.1-S75	07/07/2025	LOT 3139	**	**	**	2ND LAYER	98.0	0.0	16.3	2.05
**	1336.1-S76	07/07/2025	LOT 3134	**	**	**	2ND LAYER	98.0	-0.5	17.0	2.04
**	1336.1-S77	07/07/2025	LOT 3129	**	**	**	2ND LAYER	97.5	0.0	15.6	2.05
**	1336.1-S78	07/07/2025	LOT 3132	**	**	**	2ND LAYER	97.0	0.0	15.6	2.04
**	1336.1-S79	07/07/2025	WATER STRUCTURE - SIDE WALL	**	**	**	FSL	97.5	0.0	15.4	2.03
**	1336.1-S80	07/07/2025	WATER STRUCTURE - SIDE WALL	**	**	**	FSL	96.5	0.0	14.3	2.03
**	1336.1-S81	07/07/2025	WATER STRUCTURE - SIDE WALL	**	**	**	FSL	100.0	0.5	13.8	2.03
**	1336.1-S82	07/07/2025	WATER STRUCTURE - SIDE WALL	**	**	**	FSL	99.5	2.0	13.3	2.03
**	1336.1-S83	07/07/2025	WATER STRUCTURE - SIDE WALL	**	**	**	FSL	99.5	2.5	14.1	2.02
**	1336.1-S84	07/07/2025	WATER STRUCTURE - SIDE WALL	**	**	**	FSL	99.5	2.0	13.7	2.02
**	1336.1-S85	09/07/2025	BATTERS-WATER STRUCTURE	**	**	**	FSL	99.5	2.0	14.6	2.01
**	1336.1-S86	09/07/2025	BATTERS-WATER STRUCTURE	**	**	**	FSL	98.0	2.0	14.1	2.02
**	1336.1-S87	09/07/2025	BATTERS-WATER STRUCTURE	**	**	**	FSL	97.0	0.5	14.7	2.02
**	1336.1-S88	09/07/2025	BATTERS-WATER STRUCTURE	**	**	**	FSL	102.5	4.0	10.9	2.04
**	1336.1-S89	15/07/2025	LOT 3110	**	**	**	1ST LAYER(-0.7 FSL)	98.0	-0.5	17.1	2.03
**	1336.1-S90	15/07/2025	LOT 3111	**	**	**	1ST LAYER(-0.7 FSL)	96.5	-0.5	17.7	2.01
**	1336.1-S91	15/07/2025	AS MARKED-CHILD CARE CENTRE	**	**	**	1ST LAYER(-0.7 FSL)	98.0	-1.0	16.9	2.01
**	1336.1-S92	15/07/2025	LOT 3116	**	**	**	1ST LAYER(-1.6m FSL)	100.5	-0.5	19.1	2.06
**	1336.1-S93	15/07/2025	LOT 3117	**	**	**	1ST LAYER(-1.6m FSL)	101.0	-1.0	15.3	2.06
**	1336.1-S94	15/07/2025	LOT 3114	**	**	**	1ST LAYER(-1.6m FSL)	98.5	-2.5	18.7	2.03
**	1336.1-S95	17/07/2025	LOT 3121	**	**	**	-0.820 FSL	104.0	0.5	20.1	2.09
**	1336.1-S96	17/07/2025	LOT 3119	**	**	**	-1.30 FSL	100.0	0.0	17.2	2.02
**	1336.1-S97	17/07/2025	LOT 3122	**	**	**	-1.30 FSL	101.0	2.0	18.8	2.00
**	1336.1-S98	17/07/2025	LOT 3123	**	**	**	-1.60 FSL	98.5	0.0	21.0	1.99
**	1336.1-S99	18/07/2025	LOT 3113	**	**	**	-0.4 m FSL	99.5	2.5	20.8	2.05
**	1336.1-S100	18/07/2025	LOT 3112	**	**	**	-0.4 m FSL	99.5	2.5	17.8	2.05
**	1336.1-S101	18/07/2025	LOT 3134/3135	**	**	**	FSL	99.5	2.5	18.8	2.04

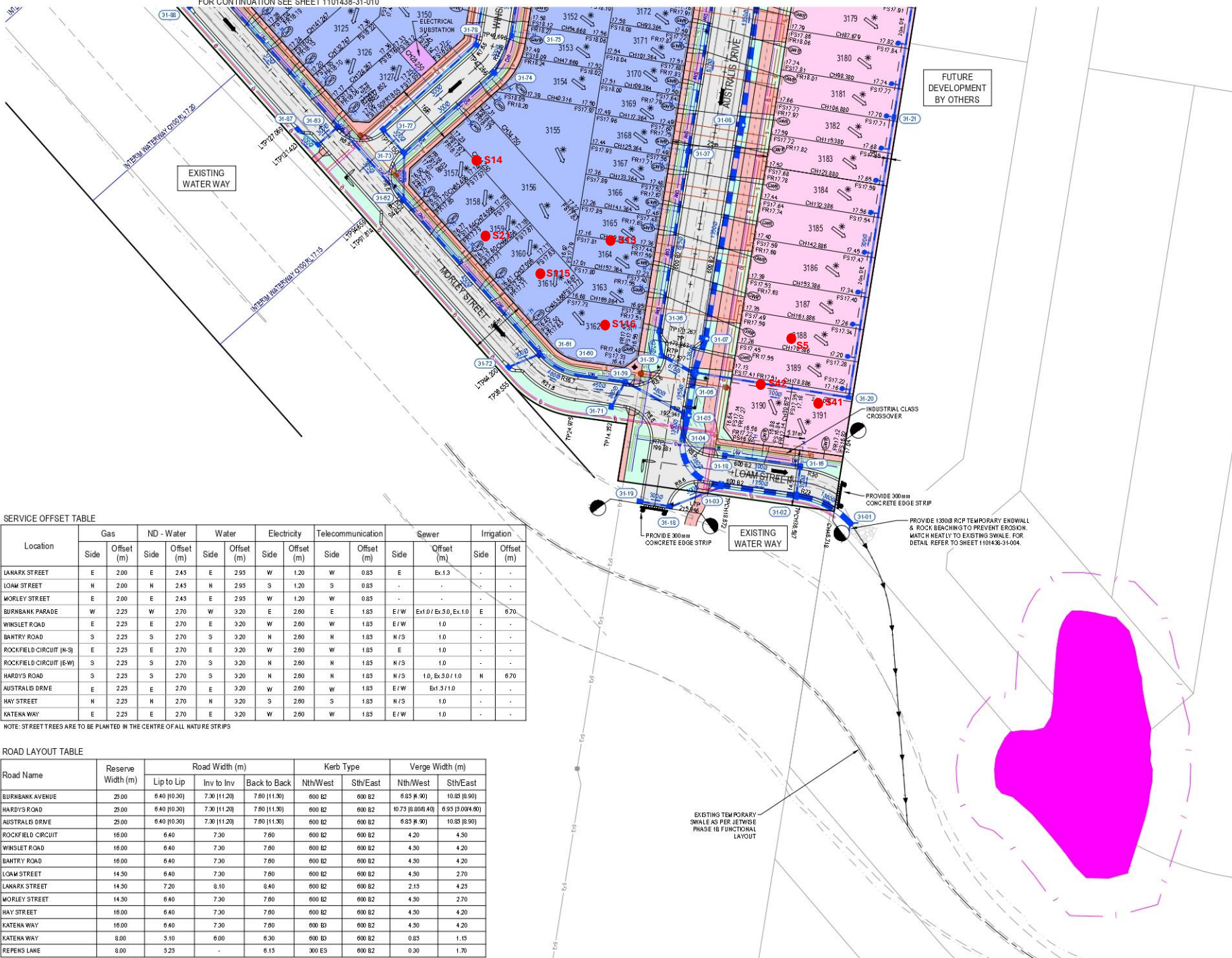
Lot #	Sample #	Date Sampled	Location	Location		Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	1336.1-S102	18/07/2025	LOT 3136	**	**	**	FSL	101.0	1.0	18.6	2.05
**	1336.1-S103	18/07/2025	LOT 3143	**	**	**	FSL	98.0	2.5	18.8	2.04
**	1336.1-S104	18/07/2025	LOT 3144	**	**	**	FSL	98.5	2.5	**	2.04
**	1336.1-S105	19/07/2025	LOT 3118	**	**	**	-0.320 m FSL	100.0	2.0	6.3	2.02
**	1336.1-S106	19/07/2025	LOT 3117	**	**	**	-0.320 m FSL	100.0	2.5	22.5	2.02
**	1336.1-S107	19/07/2025	LOT 3120	**	**	**	-0.380 m FSL	99.5	-1.0	21.3	2.02
**	1336.1-S108	21/07/2025	LOT 3149	**	**	**	FSL	102.5	5.0	9.5	1.99
**	1336.1-S109	21/07/2025	LOT 3150	**	**	**	FSL	100.5	4.0	12.6	1.99
**	1336.1-S110	21/07/2025	LOT 3154	**	**	**	FSL	99.0	2.0	16.1	1.98
**	1336.1-S111	21/07/2025	LOT 3155	**	**	**	FSL	99.5	2.5	13.3	1.98
**	1336.1-S112	21/07/2025	LOT 3167/3166	**	**	**	FSL	104.0	2.0	16.0	2.08
**	1336.1-S113	21/07/2025	LOT 3170/3171	**	**	**	FSL	105.0	2.5	13.4	2.08
**	1336.1-S114	23/07/2025	LOT 3113	**	REFER TO SITE PLAN from LEL	**	FSL	102.5	1.0	16.7	2.04
**	1336.1-S115	23/07/2025	LOT 3161	**	REFER TO SITE PLAN from LEL	**	FSL	103.0	2.5	16.7	2.05
**	1336.1-S116	23/07/2025	LOT 3162	**	REFER TO SITE PLAN from LEL	**	FSL	102.0	3.0	16.4	2.04
**	1336.1-S117	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	103.5	2.0	15.8	2.09
**	1336.1-S118	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	103.0	2.0	16.0	2.07
**	1336.1-S119	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	103.5	2.5	16.3	2.10
**	1336.1-S120	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	103.0	1.5	14.0	2.09
**	1336.1-S121	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	101.5	1.0	15.4	2.05
**	1336.1-S122	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	101.0	2.5	15.2	2.04
**	1336.1-S123	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	101.5	1.5	15.0	2.05
**	1336.1-S124	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	103.0	1.5	16.0	2.07
**	1336.1-S125	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	99.0	-0.5	18.2	2.03
**	1336.1-S126	25/07/2025	AS MAKRKED PLAN	**	**	**	FSL	100.0	-0.5	17.7	2.04
**	1336.1-S127	25/07/2025	CHILD CARE CENTRE	**	**	**	FSL	97.0	-0.5	18.1	2.00
**	1336.1-S128	25/07/2025	CHILD CARE CENTRE	**	**	**	FSL	100.5	2.0	17.6	2.00
**	1336.1-S129	30/07/2025	LOT 3110	**	**	**	FSL	98.5	0.0	15.1	2.03
**	1336.1-S130	30/07/2025	LOT 3111	**	**	**	FSL	96.5	0.0	15.8	2.01
**	1336.1-S131	30/07/2025	CHILD CARE CENTRE	**	**	**	FSL	97.5	0.0	15.4	2.02

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

FOR CONTINUATION SEE SHEET 1101438-31-010



SERVICE OFFSET TABLE

Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer		Irrigation	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
LANARK STREET	E	2.00	E	2.45	E	2.95	W	1.20	W	0.83	E	Ex.1.3	-	-
LOAM STREET	N	2.00	N	2.45	N	2.95	S	1.20	S	0.83	-	-	-	-
WORLEY STREET	E	2.00	E	2.45	E	2.95	W	1.20	W	0.83	-	-	-	-
BURNBANK PARADE	W	2.25	W	2.70	W	3.20	E	2.60	E	1.83	E/W	Ext.0 / Ex.5.0, Ex.1.0	E	6.70
WINSLET ROAD	E	2.25	E	2.70	E	3.20	W	2.60	W	1.83	E/W	1.0	-	-
BANTRY ROAD	S	2.25	S	2.70	S	3.20	N	2.60	N	1.83	N/S	1.0	-	-
ROCKFIELD CIRCUIT (N-S)	E	2.25	E	2.70	E	3.20	W	2.60	W	1.83	E	1.0	-	-
ROCKFIELD CIRCUIT (E-W)	S	2.25	S	2.70	S	3.20	N	2.60	N	1.83	N/S	1.0	-	-
HARDY'S ROAD	S	2.25	S	2.70	S	3.20	N	2.60	N	1.83	N/S	1.0, Ex.5.0 / 1.0	N	6.70
AUSTRALIS DRIVE	E	2.25	E	2.70	E	3.20	W	2.60	W	1.83	E/W	Ext.3 / 1.0	-	-
HAY STREET	N	2.25	N	2.70	N	3.20	S	2.60	S	1.83	N/S	1.0	-	-
KATENA WAY	E	2.25	E	2.70	E	3.20	W	2.60	W	1.83	E/W	1.0	-	-

NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS

ROAD LAYOUT TABLE

Road Name	Reserve Width (m)	Road Width (m)			Kerb Type		Verge Width (m)	
		Lip to Lip	Inv to Inv	Back to Back	Nth/West	Stn/East	Nth/West	Stn/East
BURNBANK AVENUE	25.00	6.40 (10.30)	7.30 (11.20)	7.60 (11.30)	600 B2	600 B2	6.85 (8.90)	10.85 (8.90)
HARDY'S ROAD	25.00	6.40 (10.30)	7.30 (11.20)	7.60 (11.30)	600 B2	600 B2	10.73 (8.80/6.40)	6.93 (5.00/4.00)
AUSTRALIS DRIVE	25.00	6.40 (10.30)	7.30 (11.20)	7.60 (11.30)	600 B2	600 B2	6.85 (8.90)	10.85 (8.90)
ROCKFIELD CIRCUIT	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.30
WINSLET ROAD	16.00	6.40	7.30	7.60	600 B2	600 B2	4.30	4.20
BANTRY ROAD	16.00	6.40	7.30	7.60	600 B2	600 B2	4.30	4.20
LOAM STREET	14.50	6.40	7.30	7.60	600 B2	600 B2	4.50	2.70
LANARK STREET	14.50	7.20	8.10	8.40	600 B2	600 B2	2.15	4.25
WORLEY STREET	14.50	6.40	7.30	7.60	600 B2	600 B2	4.30	2.70
HAY STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.30	4.20
KATENA WAY	16.00	6.40	7.30	7.60	600 B3	600 B2	4.30	4.20
KATENA WAY	8.00	3.10	6.00	6.30	600 B3	600 B2	0.83	1.15
PEPENS LANE	8.00	3.25	-	6.15	300 ES	600 B2	0.30	1.70

NOTE: DIMENSIONS IN PARENTHESES INCLUDES PARKING LANE

FOR CONTINUATION SEE SHEET 1101438-31-012

Material Test Report



Report Number: GSE1336.1-1
Issue Number: 4 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11469
Date Sampled: 14/04/2025
Dates Tested: 14/04/2025 - 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: CLYDE NORTH
Material: Silty Clay
Material Source: ONSITE



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	1336.1-S5	1336.1-S6	
Date Tested	14/04/2025	14/04/2025	
Time Tested	**	**	
Test Request #/Location	STAGE 31	STAGE 31	
Chainage (m)	Lot 3173	Lot 3188	
Location Offset (m)	**	**	
Layer / Reduced Level	3	3	
Thickness of Layer (mm)	300	300	
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	
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	1.97	2.01	
Field Moisture Content %	10.4	11.5	
Field Dry Density (FDD) t/m ³	1.79	1.81	
Peak Converted Wet Density t/m ³	2.06	2.04	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	1.5	2.5	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	95.5	99.0	
Compaction Method	Standard	Standard	
Remarks	**	**	

Moisture Variation Note:

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

Material Test Report



Report Number: GSE1336.1-2
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11460
Date Sampled: 11/04/2025 15:30
Dates Tested: 11/04/2025 - 28/04/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT



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	1336.1-S1	1336.1-S2	1336.1-S3	1336.1-S4
Date Tested	11/04/2025	11/04/2025	11/04/2025	11/04/2025
Time Tested	15:30	15:35	15:40	15:45
Test Request #/Location	LOT 3080	LOT 3079	LOT 3099	LOT 3088
Layer / Reduced Level	1ST LAYER	1ST LAYER	1ST LAYER	1ST LAYER
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	2.10	2.10	2.09	2.09
Field Moisture Content %	20.7	11.3	14.0	11.1
Field Dry Density (FDD) t/m ³	1.74	1.88	1.83	1.88
Peak Converted Wet Density t/m ³	2.07	2.07	2.07	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	2.5	2.5	2.5
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	101.0	101.0	101.0	100.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report



Report Number: GSE1336.1-3
Issue Number: 3 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11850
Date Sampled: 03/06/2025
Dates Tested: 03/06/2025 - 06/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: OFFICER



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	1336.1-S7	1336.1-S8	1336.1-S9
Date Tested	03/06/2025	03/06/2025	03/06/2025
Time Tested	**	**	**
Test Request #/Location	LOT 3146/3147	LOT 3176/3177	LOT 3178/3179
Chainage (m)	**	**	**
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	1.99	2.01	2.02
Field Moisture Content %	19.6	12.1	12.4
Field Dry Density (FDD) t/m ³	1.67	1.79	1.79
Peak Converted Wet Density t/m ³	2.07	2.11	2.12
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-2.5	0.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.5	95.5	95.0
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

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

Material Test Report



Report Number: GSE1336.1-4
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11860
Date Sampled: 04/06/2025
Dates Tested: 04/06/2025 - 10/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: OFFICER



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	1336.1-S10	1336.1-S11	1336.1-S12
Date Tested	04/06/2025	04/06/2025	04/06/2025
Time Tested	**	**	**
Test Request #/Location	LOT 3096	LOT 3094	LOT 3092
Chainage (m)	**	**	**
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	2.03	2.04	2.03
Field Moisture Content %	20.4	21.1	19.0
Field Dry Density (FDD) t/m ³	1.68	1.69	1.71
Peak Converted Wet Density t/m ³	2.10	2.10	2.17
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	-2.0	-2.0	-2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	96.5	97.0	93.5
Compaction Method	Standard	Standard	Standard
Remarks	**	**	**

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

Material Test Report



Report Number: GSE1336.1-5
Issue Number: 3 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11864
Date Sampled: 05/06/2025 7:30
Dates Tested: 05/06/2025 - 10/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: IMPORTED



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	1336.1-S13	1336.1-S14	1336.1-S15	1336.1-S16	1336.1-S17	1336.1-S18
Date Tested	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025
Time Tested	**	**	**	**	**	**
Test Request #/Location	LOT 3134/3165	LOT 3156/3157	LOT 3154	LOT 3169	LOT 3172	LOT 3151/3152
Elevation (m)	-0.66 FSL	**	**	**	**	**
Layer / Reduced Level	LAYER 1	LAYER 1	LAYER 1	LAYER 1	LAYER 1	LAYER 1
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.01	2.00	2.01	1.96	2.00	1.96
Field Moisture Content %	17.6	18.4	17.7	17.4	17.5	15.4
Field Dry Density (FDD) t/m ³	1.71	1.69	1.71	1.67	1.71	1.69
Peak Converted Wet Density t/m ³	1.99	1.99	1.98	2.04	2.05	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	1.5	0.5	0.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	101.0	100.5	101.5	96.0	97.5	96.5
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

Material Test Report



Report Number: GSE1336.1-12
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 27/03/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11944
Date Sampled: 19/06/2025 13:00
Dates Tested: 19/06/2025 - 25/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: NEW PLANS INLUDES NEW LOT NUMBERS
Specification: 95% Std
Site Selection: Selected by Client
Location: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT



Accredited for compliance with ISO/IEC 17025 - Testing

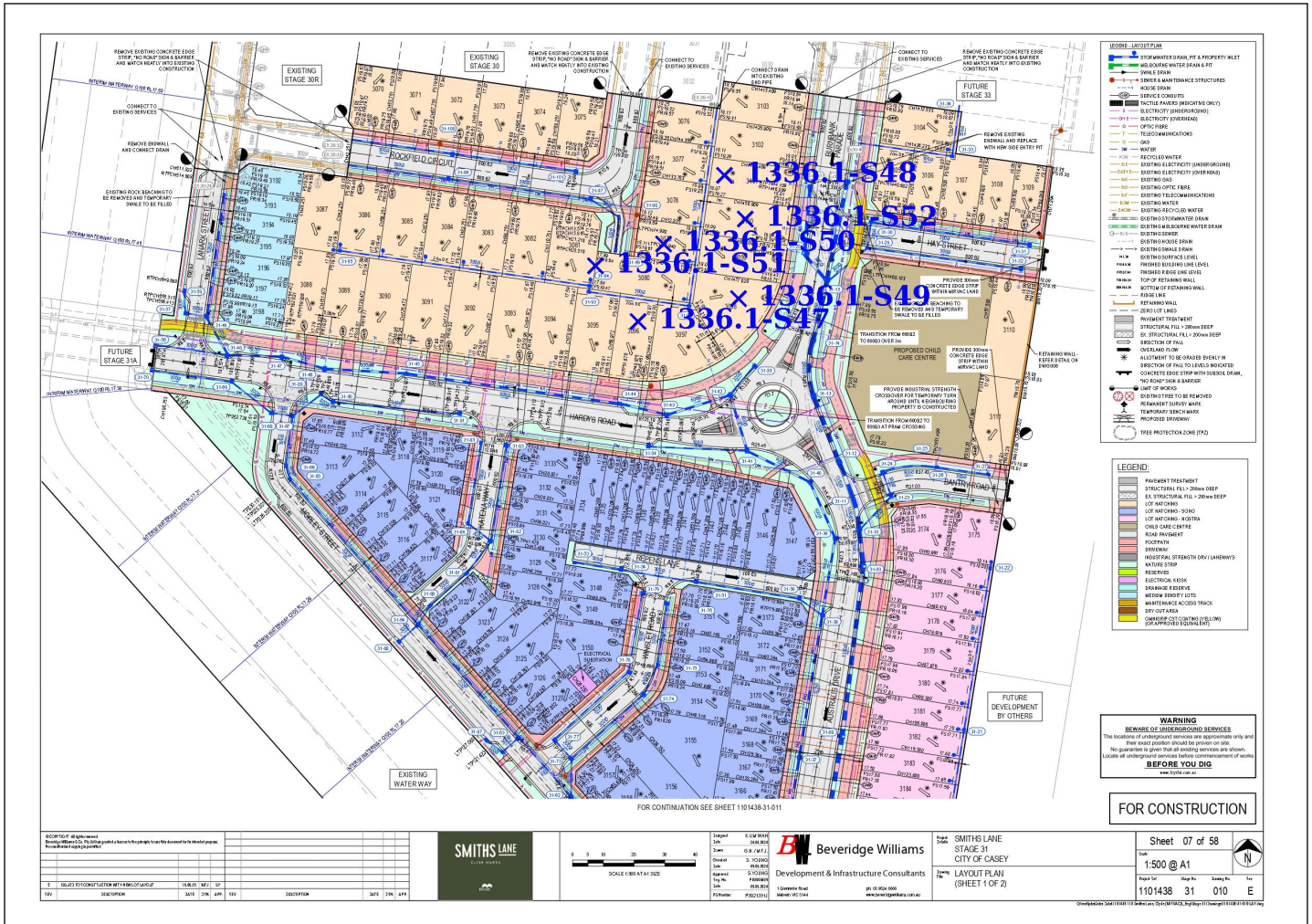
Approved Signatory: Mark Longfield
 Laboratory Manager
 Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	1336.1-S47	1336.1-S48	1336.1-S49	1336.1-S50	1336.1-S51	1336.1-S52
Date Tested	19/06/2025	19/06/2025	19/06/2025	19/06/2025	19/06/2025	19/06/2025
Time Tested	13:03	13:10	13:15	13:20	13:35	13:45
Test Request #/Location	LOT 3096	LOT 3101	LOT 3098	LOT 3096	LOT 3080/3081	LOT 3100
Layer / Reduced Level	3RD LAYER/-0.580 FSL	3RD LAYER	3RD LAYER	3RD LAYER/-0.550FSL	3RD LAYER	3RD LAYER
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	**	0
Field Wet Density (FWD) t/m ³	1.98	1.99	2.01	1.98	2.00	1.99
Field Moisture Content %	14.2	14.6	15.7	17.3	14.4	15.0
Field Dry Density (FDD) t/m ³	1.74	1.74	1.74	1.69	1.75	1.73
Peak Converted Wet Density t/m ³	2.05	2.04	2.09	2.02	2.02	1.96
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.0	1.5	2.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	97.0	97.5	96.5	98.5	99.0	101.5
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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: GSE1336.1-6
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11876
Date Sampled: 06/06/2025 7:45
Dates Tested: 06/06/2025 - 11/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: IMPORTED-DIFFERENT LOCATIONS



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	1336.1-S19	1336.1-S20	1336.1-S21	1336.1-S22	1336.1-S23
Date Tested	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025
Time Tested	08:30	08:35	08:40	08:45	08:50
Test Request #/Location	LOT 3153	LOT 3155	LOT 3159	LOT 3116/3121	LOT 3120
Elevation (m)	**	**	**	-0.5 FSL	-0.5 FSL
Layer / Reduced Level	1ST LAYER	1ST LAYER	1ST LAYER	1ST LAYER	1ST 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	0
Field Wet Density (FWD) t/m ³	2.01	2.04	2.04	2.01	2.00
Field Moisture Content %	14.1	14.1	14.0	20.2	19.3
Field Dry Density (FDD) t/m ³	1.76	1.79	1.79	1.67	1.68
Peak Converted Wet Density t/m ³	2.12	2.13	2.14	2.02	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.5	0.5	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	95.0	96.0	95.5	99.5	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report



Report Number: GSE1336.1-6
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11876
Date Sampled: 06/06/2025 7:45
Dates Tested: 06/06/2025 - 11/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: IMPORTED-DIFFERENT LOCATIONS



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	1336.1-S24	1336.1-S25	1336.1-S26	1336.1-S27	
Date Tested	06/06/2025	06/06/2025	06/06/2025	06/06/2025	
Time Tested	08:55	10:30	10:35	10:40	
Test Request #/Location	LOT 3119	LOT 3079	LOT 3196	LOT 3197	
Layer / Reduced Level	1ST LAYER	2ND LAYER	2 ND LAYER	2 ND LAYER	
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	2.00	1.86	1.86	1.85	
Field Moisture Content %	20.1	23.4	21.9	20.1	
Field Dry Density (FDD) t/m ³	1.66	1.51	1.53	1.54	
Peak Converted Wet Density t/m ³	2.03	1.93	1.92	1.92	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	
Moisture Variation (Wv) %	0.0	1.5	2.0	1.5	
Adjusted Moisture Variation %	**	**	**	**	
Hilf Density Ratio (%)	98.0	96.5	97.0	96.0	
Compaction Method	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	

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

Material Test Report



Report Number: GSE1336.1-7
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11915
Date Sampled: 13/06/2025 10:15
Dates Tested: 13/06/2025 - 17/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT +IMPORTED



Accredited for compliance with ISO/IEC 17025 - Testing

[Signature]
 Approved Signatory: Mark Longfield
 Laboratory Manager
 Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	1336.1-S28	1336.1-S29	1336.1-S30	1336.1-S31	1336.1-S32	1336.1-S33
Date Tested	13/06/2025	13/06/2025	13/06/2025	13/06/2025	13/06/2025	13/06/2025
Time Tested	10:35	10:39	10:44	10:57	11:05	11:17
Test Request #/Location	LOT 3083	LOT 3082	LOT 3081	LOT 3080	LOT 3095	LOT 3094
Layer / Reduced Level	1 ST LAYER	1 ST LAYER	1 ST LAYER	1 ST LAYER	1 ST LAYER	1 ST LAYER
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	**	0	0
Field Wet Density (FWD) t/m ³	2.13	2.13	2.13	2.12	2.06	2.07
Field Moisture Content %	11.2	12.7	11.4	12.8	20.1	20.7
Field Dry Density (FDD) t/m ³	1.92	1.89	1.91	1.88	1.72	1.71
Peak Converted Wet Density t/m ³	2.18	2.17	2.13	2.14	2.08	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.5	0.5	0.5	-3.5	-3.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	97.5	98.0	99.5	99.5	99.0	100.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

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

Material Test Report



Report Number: GSE1336.1-8
Issue Number: 3 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11920
Date Sampled: 16/06/2025 7:45
Dates Tested: 16/06/2025 - 19/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT



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	1336.1-S34	1336.1-S35	1336.1-S36	1336.1-S37	1336.1-S38
Date Tested	16/06/2025	16/06/2025	16/06/2025	16/06/2025	16/06/2025
Time Tested	07:50	07:55	08:01	08:04	08:11
Test Request #/Location	LOT 3173/3174	LOT 3084/3085	LOT 3089/3090	LOT 3088	LOT 3093
Elevation (m)	-1.2 FSL	-1.2 FSL	-1.2 FSL	-0.9 FSL	-0.88 FSL
Layer / Reduced Level	1ST LAYER	1ST LAYER	1ST LAYER	2ND LAYER	2ND 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	0
Field Wet Density (FWD) t/m ³	2.13	2.13	2.12	2.07	2.06
Field Moisture Content %	13.8	13.4	16.5	17.2	14.4
Field Dry Density (FDD) t/m ³	1.87	1.88	1.82	1.76	1.80
Peak Converted Wet Density t/m ³	2.15	2.14	2.14	2.10	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	-0.5	0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	99.0	99.5	99.5	98.5	98.0
Compaction Method	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**

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

Material Test Report



Report Number: GSE1336.1-8
Issue Number: 3 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11920
Date Sampled: 16/06/2025 7:45
Dates Tested: 16/06/2025 - 19/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT



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	1336.1-S39	1336.1-S40	1336.1-S41	1336.1-S42	1336.1-S43
Date Tested	16/06/2025	16/06/2025	16/06/2025	16/06/2025	16/06/2025
Time Tested	08:15	08:18	08:25	08:31	08:45
Test Request #/Location	LOT 3094	LOT 3095	LOT 3191	LOT 3190/3189	LOT 3086
Elevation (m)	-0.9 FSL	-0.9 FSL	-0.9 FSL	-0.9 FSL	-0.9 FSL
Layer / Reduced Level	2ND LAYER	2ND LAYER	2ND LAYER	2ND LAYER	2ND 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	0
Field Wet Density (FWD) t/m ³	2.00	2.06	2.07	2.07	2.08
Field Moisture Content %	12.8	12.8	14.0	14.3	13.1
Field Dry Density (FDD) t/m ³	1.77	1.82	1.82	1.81	1.84
Peak Converted Wet Density t/m ³	2.08	2.14	2.15	2.15	2.16
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	96.0	96.0	96.5	96.0	96.5
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

Material Test Report



Report Number: GSE1336.1-9
Issue Number: 4 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 13/04/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11935
Date Sampled: 18/06/2025 12:45
Dates Tested: 18/06/2025 - 20/06/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT



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	1336.1-S44	1336.1-S45	1336.1-S46
Date Tested	18/06/2025	18/06/2025	18/06/2025
Time Tested	12:45	12:49	13:02
Test Request #/Location	LOT 3070/3071	LOT 3090	LOT 3072
Elevation (m)	-1.1 FSL	0.8 FSL	0.8 FSL
Layer / Reduced Level	2 ND LAYER	2 ND LAYER	2 ND LAYER
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	2.12	2.11	2.11
Field Moisture Content %	14.8	16.9	16.3
Field Dry Density (FDD) t/m ³	1.84	1.80	1.81
Peak Converted Wet Density t/m ³	2.14	2.14	2.15
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.0	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	99.0	98.5	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

Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-10
Issue Number: 1
Date Issued: 25/06/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11951
Date Sampled: 20/06/2025 9:45
Dates Tested: 20/06/2025 - 24/06/2025
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: CLYDE NORTH
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	1336.1-S53	1336.1-S54	1336.1-S55	1336.1-S56	1336.1-S57	1336.1-S58
Date Tested	20/06/2025	20/06/2025	20/06/2025	20/06/2025	20/06/2025	20/06/2025
Time Tested	10:20	10:35	10:52	11:05	11:21	11:45
Test Request #/Location	WATER RETAINING STRUCTURE-BATTERS	WATER RETAINING STRUCTURE-BATTERS	WATER RETAINING STRUCTURE-BATTERS	WATER RETAINING STRUCTURE-BATTERS	WATER RETAINING STRUCTURE-BATTERS	WATER RETAINING STRUCTURE-BATTERS
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.04	2.04	2.06	2.05	2.06	2.03
Field Moisture Content %	10.2	11.3	12.3	12.6	11.5	14.9
Field Dry Density (FDD) t/m ³	1.85	1.83	1.83	1.82	1.85	1.77
Peak Converted Wet Density t/m ³	2.10	2.10	2.05	2.04	2.07	2.05
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	1.5	1.5	1.5	1.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	97.0	97.0	100.5	100.5	99.5	98.5
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

Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-11
Issue Number: 1
Date Issued: 25/06/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11953
Date Sampled: 20/06/2025
Dates Tested: 20/06/2025 - 24/06/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Remarks: NEW PLANS AND NEW LOT NUMBERS
Specification: 95% Std
Site Selection: Selected by Client
Location: CLYDE NORTH
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	1336.1-S59	1336.1-S60	
Date Tested	20/06/2025	20/06/2025	
Time Tested	13:50	13:55	
Test Request #/Location	LOT 3093	LOT 3095	
Layer / Reduced Level	3RD LAYER	3RD LAYER	
Thickness of Layer (mm)	300	300	
Soil Description	silty CLAY, medium - high plasticity, brown	silty CLAY, medium - high plasticity, brown	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	
Field Wet Density (FWD) t/m ³	2.10	2.09	
Field Moisture Content %	14.4	14.6	
Field Dry Density (FDD) t/m ³	1.84	1.83	
Peak Converted Wet Density t/m ³	2.08	2.11	
Adjusted Peak Converted Wet Density t/m ³	**	**	
Moisture Variation (Wv) %	0.0	0.0	
Adjusted Moisture Variation %	**	**	
Hilf Density Ratio (%)	101.0	99.5	
Compaction Method	Standard	Standard	
Remarks	**	**	

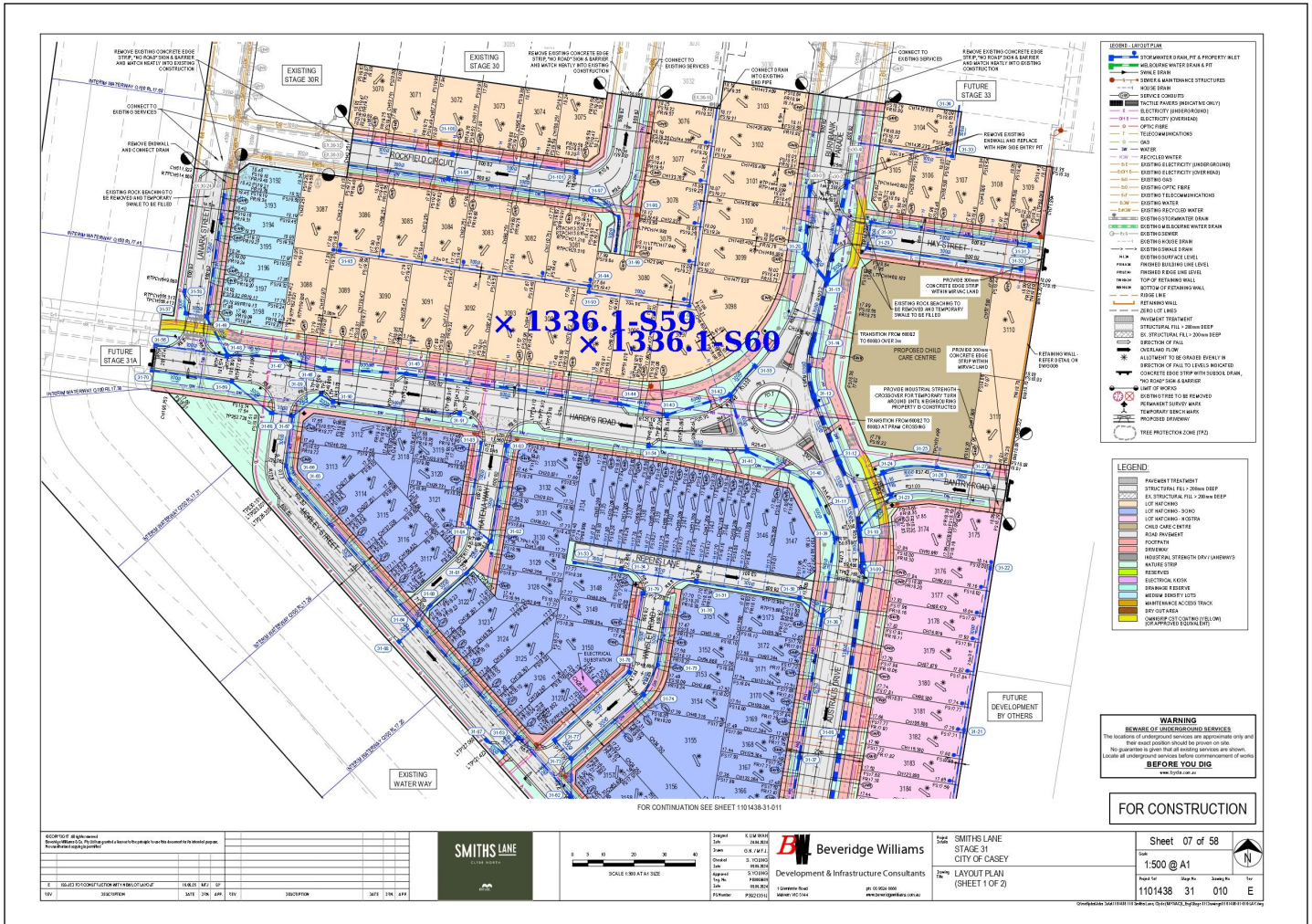
Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Sample Locations Plan

x - approximate test location



Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-13
Issue Number: 1
Date Issued: 26/06/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11961
Date Sampled: 23/06/2025 14:00
Dates Tested: 23/06/2025 - 25/06/2025
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: CLYDE NORTH
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	1336.1-S65	1336.1-S66	1336.1-S67	1336.1-S68
Date Tested	23/06/2025	23/06/2025	23/06/2025	23/06/2025
Time Tested	14:00	14:15	14:35	14:45
Test Request #/Location	BATTERS-WATER RETAINING STRUCTURE	BATTERS-WATER RETAINING STRUCTURE	BATTERS-WATER RETAINING STRUCTURE	BATTERS-WATER RETAINING STRUCTURE
Layer / Reduced Level	FSL	FSL	FSL	FSL
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	2.02	2.05	2.06	2.05
Field Moisture Content %	11.2	11.8	10.0	10.7
Field Dry Density (FDD) t/m ³	1.81	1.83	1.87	1.85
Peak Converted Wet Density t/m ³	2.01	2.02	1.98	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	3.0	2.5	4.0	3.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	100.5	101.0	103.5	102.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: GSE1336.1-14
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 27/03/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11960
Date Sampled: 23/06/2025 12:45
Dates Tested: 23/06/2025 - 26/06/2025
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: CLYDE NORTH
Material: Sandy Clay
Material Source: SITE CUT



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	1336.1-S61	1336.1-S62	1336.1-S63	1336.1-S64
Date Tested	23/06/2025	23/06/2025	23/06/2025	23/06/2025
Time Tested	13:20	13:30	13:41	13:50
Test Request #/Location	LOT 3083/3082	LOT 3086	LOT 3091	LOT 3089
Layer / Reduced Level	3RD LAYER	3RD LAYER	3RD LAYER	3RD LAYER
Thickness of Layer (mm)	300	300	300	300
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
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	2.16	2.13	2.15	2.14
Field Moisture Content %	13.0	11.7	12.3	13.5
Field Dry Density (FDD) t/m ³	1.91	1.91	1.91	1.89
Peak Converted Wet Density t/m ³	2.18	2.17	2.17	2.18
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	99.0	98.0	99.0	98.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

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

Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-15
Issue Number: 1
Date Issued: 02/07/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 11965
Date Sampled: 24/06/2025 12:30
Dates Tested: 24/06/2025 - 01/07/2025
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: CLYDE NORTH
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	1336.1-S69	1336.1-S70	1336.1-S71	1336.1-S72
Date Tested	24/06/2025	24/06/2025	24/06/2025	24/06/2025
Time Tested	12:40	12:44	12:48	12:52
Test Request #/Location	LOT 3087	LOT 3085	LOT 3088	LOT 3090
Layer / Reduced Level	3RD LAYER	3RD LAYER	3RD LAYER	3RD LAYER
Thickness of Layer (mm)	300	300	300	300
Soil Description	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
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	2.04	2.06	2.05	2.04
Field Moisture Content %	12.5	13.0	12.0	11.4
Field Dry Density (FDD) t/m ³	1.82	1.82	1.83	1.83
Peak Converted Wet Density t/m ³	2.17	2.16	2.10	2.13
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.5	0.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	94.0	95.0	97.5	96.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: GSE1336.1-16
Issue Number: 1
Date Issued: 08/07/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Contact: Paul McLean - 0457 878895
Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12022
Date Sampled: 07/07/2025 9:15
Dates Tested: 07/07/2025 - 07/07/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted 95% Std
Specification:
Site Selection: Selected by Client
Location: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	1336.1-S79	1336.1-S80	1336.1-S81	1336.1-S82	1336.1-S83	1336.1-S84
Date Tested	07/07/2025	07/07/2025	07/07/2025	07/07/2025	07/07/2025	07/07/2025
Time Tested	09:15	09:25	09:34	09:40	09:44	09:48
Test Request #/Location	WATER STRUCTURE - SIDE WALL	WATER STRUCTURE - SIDE WALL	WATER STRUCTURE - SIDE WALL	WATER STRUCTURE - SIDE WALL	WATER STRUCTURE - SIDE WALL	WATER STRUCTURE - SIDE WALL
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.03	2.03	2.03	2.03	2.02	2.02
Field Moisture Content %	15.4	14.3	13.8	13.3	14.1	13.7
Field Dry Density (FDD) t/m ³	1.76	1.78	1.79	1.79	1.77	1.78
Peak Converted Wet Density t/m ³	2.08	2.10	2.03	2.04	2.02	2.03
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5	2.0	2.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	97.5	96.5	100.0	99.5	99.5	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

Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-17
Issue Number: 1
Date Issued: 10/07/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12020
Date Sampled: 07/07/2025 7:45
Dates Tested: 07/07/2025 - 08/07/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: Level 1 SN:1362
Specification: 95% Std
Site Selection: Selected by Client
Location: CLYDE NORTH
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	1336.1-S73	1336.1-S74	1336.1-S75	1336.1-S76	1336.1-S77	1336.1-S78
Date Tested	07/07/2025	07/07/2025	07/07/2025	07/07/2025	07/07/2025	07/07/2025
Time Tested	08:00	08:12	08:22	08:35	08:49	08:55
Test Request #/Location	LOT 3153	LOT 3151	LOT 3139	LOT 3134	LOT 3129	LOT 3132
Elevation (m)	-0.480 FSL	**	**	**	**	**
Layer / Reduced Level	2ND LAYER	2ND LAYER	2ND LAYER	2ND LAYER	2ND LAYER	2ND LAYER
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.14	2.05	2.05	2.04	2.05	2.04
Field Moisture Content %	15.5	15.0	16.3	17.0	15.6	15.6
Field Dry Density (FDD) t/m ³	1.85	1.79	1.77	1.75	1.77	1.76
Peak Converted Wet Density t/m ³	2.12	2.11	2.10	2.09	2.10	2.10
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0	-0.5	0.0	0.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	101.0	97.5	98.0	98.0	97.5	97.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

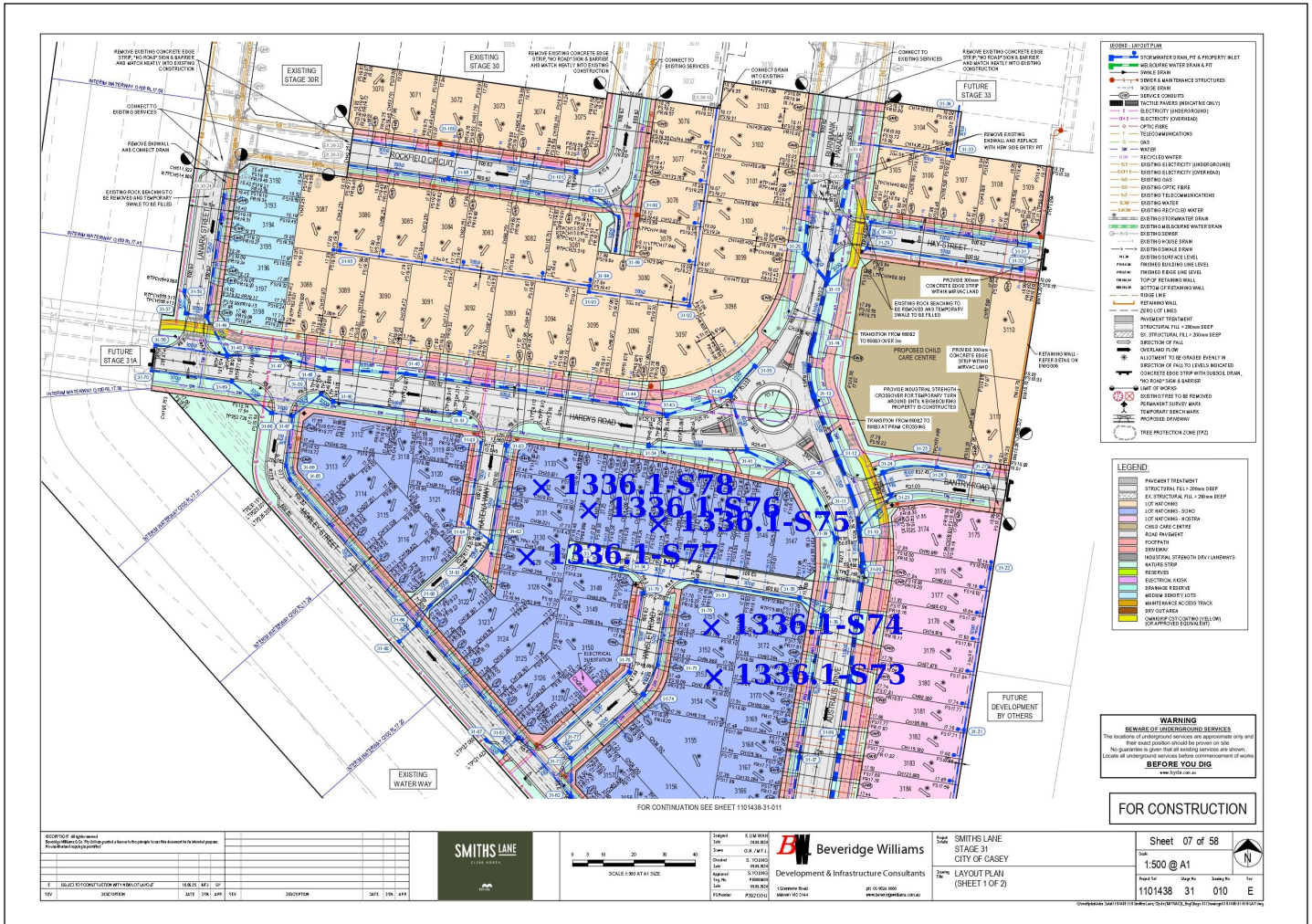
Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Sample Locations Plan

x - approximate test location



Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-18
Issue Number: 1
Date Issued: 11/07/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12041
Date Sampled: 09/07/2025 7:45
Dates Tested: 09/07/2025 - 10/07/2025
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: CLYDE NORTH
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	1336.1-S85	1336.1-S86	1336.1-S87	1336.1-S88
Date Tested	09/07/2025	09/07/2025	09/07/2025	09/07/2025
Time Tested	08:00	08:06	08:14	08:20
Test Request #/Location	BATTERS-WATER STRUCTURE	BATTERS-WATER STRUCTURE	BATTERS-WATER STRUCTURE	BATTERS-WATER STRUCTURE
Layer / Reduced Level	FSL	FSL	FSL	FSL
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
Field Wet Density (FWD) t/m ³	2.01	2.02	2.02	2.04
Field Moisture Content %	14.6	14.1	14.7	10.9
Field Dry Density (FDD) t/m ³	1.75	1.77	1.76	1.84
Peak Converted Wet Density t/m ³	2.02	2.05	2.08	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	0.5	4.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	99.5	98.0	97.0	102.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Report Number: GSE1336.1-19
Issue Number: 1
Date Issued: 22/07/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12063
Date Sampled: 15/07/2025 14:00
Dates Tested: 15/07/2025 - 21/07/2025
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: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	1336.1-S89	1336.1-S90	1336.1-S91	1336.1-S92	1336.1-S93	1336.1-S94
Date Tested	15/07/2025	15/07/2025	15/07/2025	15/07/2025	15/07/2025	15/07/2025
Time Tested	14:02	14:04	14:06	14:25	14:27	14:30
Test Request #/Location	LOT 3110	LOT 3111	AS MARKED-CHILD CARE CENTRE	LOT 3116	LOT 3117	LOT 3114
Layer / Reduced Level	1ST LAYER(-0.7 FSL)	1ST LAYER(-0.7 FSL)	1ST LAYER(-0.7 FSL)	1ST LAYER(-1.6m FSL)	1ST LAYER(-1.6m FSL)	1ST LAYER(-1.6m FSL)
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.03	2.01	2.01	2.06	2.06	2.03
Field Moisture Content %	17.1	17.7	16.9	19.1	15.3	18.7
Field Dry Density (FDD) t/m ³	1.73	1.71	1.72	1.73	1.79	1.71
Peak Converted Wet Density t/m ³	2.08	2.09	2.05	2.05	2.04	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	-1.0	-0.5	-1.0	-2.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	98.0	96.5	98.0	100.5	101.0	98.5
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

Material Test Report



Report Number: GSE1336.1-20
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 27/03/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12078
Date Sampled: 17/07/2025 9:30
Dates Tested: 17/07/2025 - 18/07/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: LEVEL 1 SN:1368
Specification: 95% Std
Site Selection: Selected by Client
Location: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT



Accredited for compliance with ISO/IEC 17025 - Testing

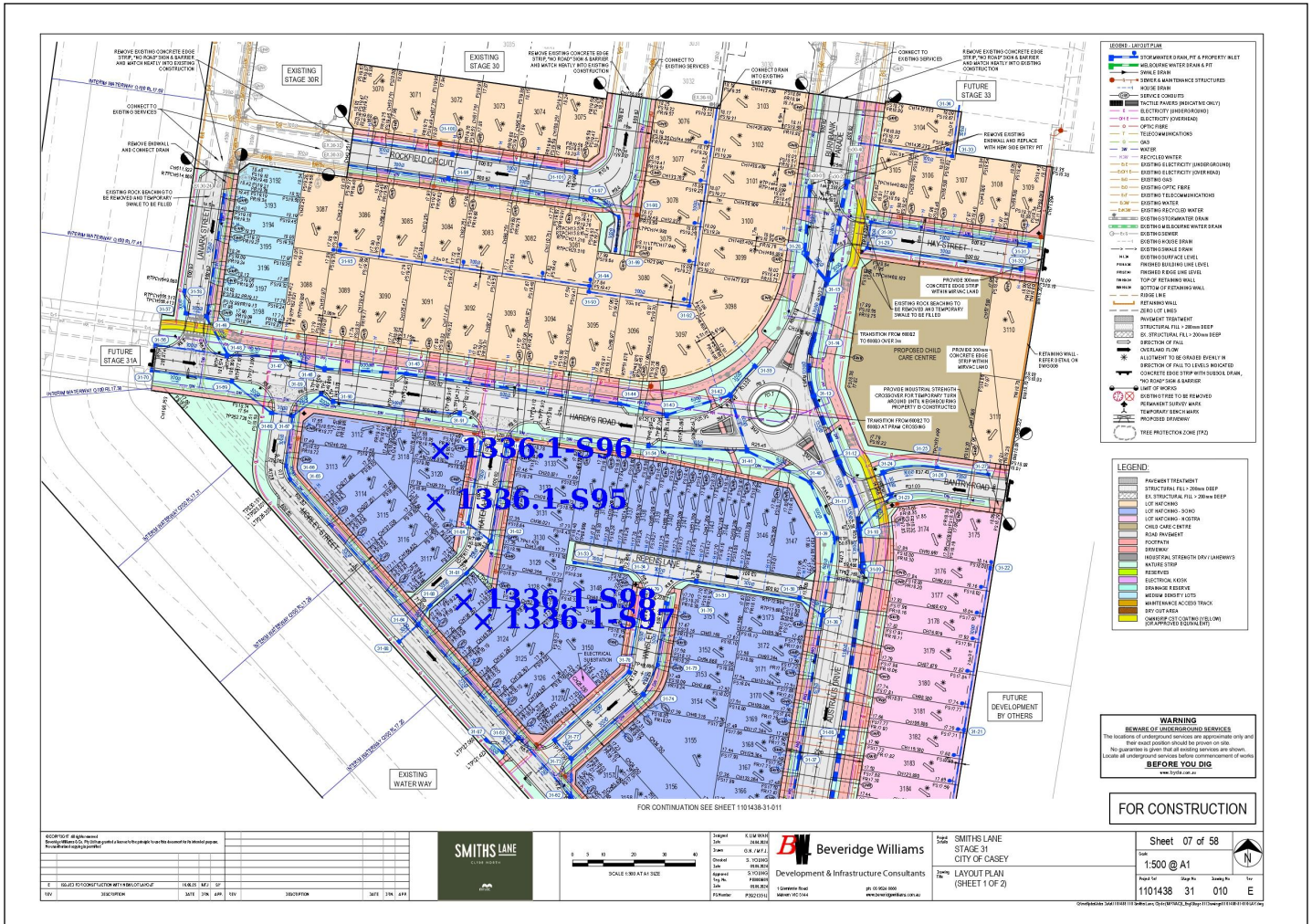
Approved Signatory: Mark Longfield
 Laboratory Manager
 Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	1336.1-S95	1336.1-S96	1336.1-S97	1336.1-S98
Date Tested	17/07/2025	17/07/2025	17/07/2025	17/07/2025
Time Tested	10:00	10:10	10:14	10:20
Test Request #/Location	LOT 3121	LOT 3119	LOT 3122	LOT 3123
Layer / Reduced Level	-0.820 FSL	-1.30 FSL	-1.30 FSL	-1.60 FSL
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	2.09	2.02	2.00	1.99
Field Moisture Content %	20.1	17.2	18.8	21.0
Field Dry Density (FDD) t/m ³	1.74	1.73	1.68	1.64
Peak Converted Wet Density t/m ³	2.01	2.02	1.98	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.5	0.0	2.0	0.0
Adjusted Moisture Variation %	**	**	**	**
Hilf Density Ratio (%)	104.0	100.0	101.0	98.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

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

Sample Locations Plan

x - approximate test location



Material Test Report



Report Number: GSE1336.1-21
 Issue Number: 1
 Date Issued: 28/07/2025
 Client: WINSLOW CONSTRUCTORS PTY LTD

Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Project Number: GSE1336.1
 Project Name: SMITHS LANE - STAGE 31
 Project Location: CLYDE NORTH
 Work Request: 12094
 Date Sampled: 19/07/2025 8:00
 Dates Tested: 19/07/2025 - 22/07/2025
 Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
 Remarks: Level 1 SN:1370
 Specification: 95% Std
 Site Selection: Selected by Client
 Location: CLYDE NORTH
 Material: silty CLAY, medium - high plasticity, brown
 Material Source: SITE CUT

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	1336.1-S105	1336.1-S106	1336.1-S107
Date Tested	19/07/2025	19/07/2025	19/07/2025
Time Tested	10:30	10:36	10:40
Test Request #/Location	LOT 3118	LOT 3117	LOT 3120
Layer / Reduced Level	-0.320 m FSL	-0.320 m FSL	-0.380 m FSL
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	2.02	2.02	2.02
Field Moisture Content %	6.3	22.5	21.3
Field Dry Density (FDD) t/m ³	1.90	1.65	1.67
Peak Converted Wet Density t/m ³	2.02	2.02	2.04
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	2.0	2.5	-1.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	100.0	100.0	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

Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-22
Issue Number: 1
Date Issued: 31/07/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12092
Date Sampled: 18/07/2025 15:00
Dates Tested: 18/07/2025 - 28/07/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted

Remarks: LEVEL 1 SN:1369
Specification: 95% Std
Site Selection: Selected by Client
Location: CLYDE NORTH
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	1336.1-S99	1336.1-S100	1336.1-S101	1336.1-S102	1336.1-S103	1336.1-S104
Date Tested	18/07/2025	18/07/2025	18/07/2025	18/07/2025	18/07/2025	18/07/2025
Time Tested	15:05	15:15	15:25	15:35	15:45	15:53
Test Request #/Location	LOT 3113	LOT 3112	LOT 3134/3135	LOT 3136	LOT 3143	LOT 3144
Layer / Reduced Level	-0.4 m FSL	-0.4 m FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.05	2.04	2.05	2.04	2.04
Field Moisture Content %	20.8	17.8	18.8	18.6	18.8	**
Field Dry Density (FDD) t/m ³	1.70	1.74	1.72	1.73	1.72	**
Peak Converted Wet Density t/m ³	2.06	2.06	2.05	2.03	2.09	2.07
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	2.5	2.5	2.5	1.0	2.5	2.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	99.5	99.5	99.5	101.0	98.0	98.5
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

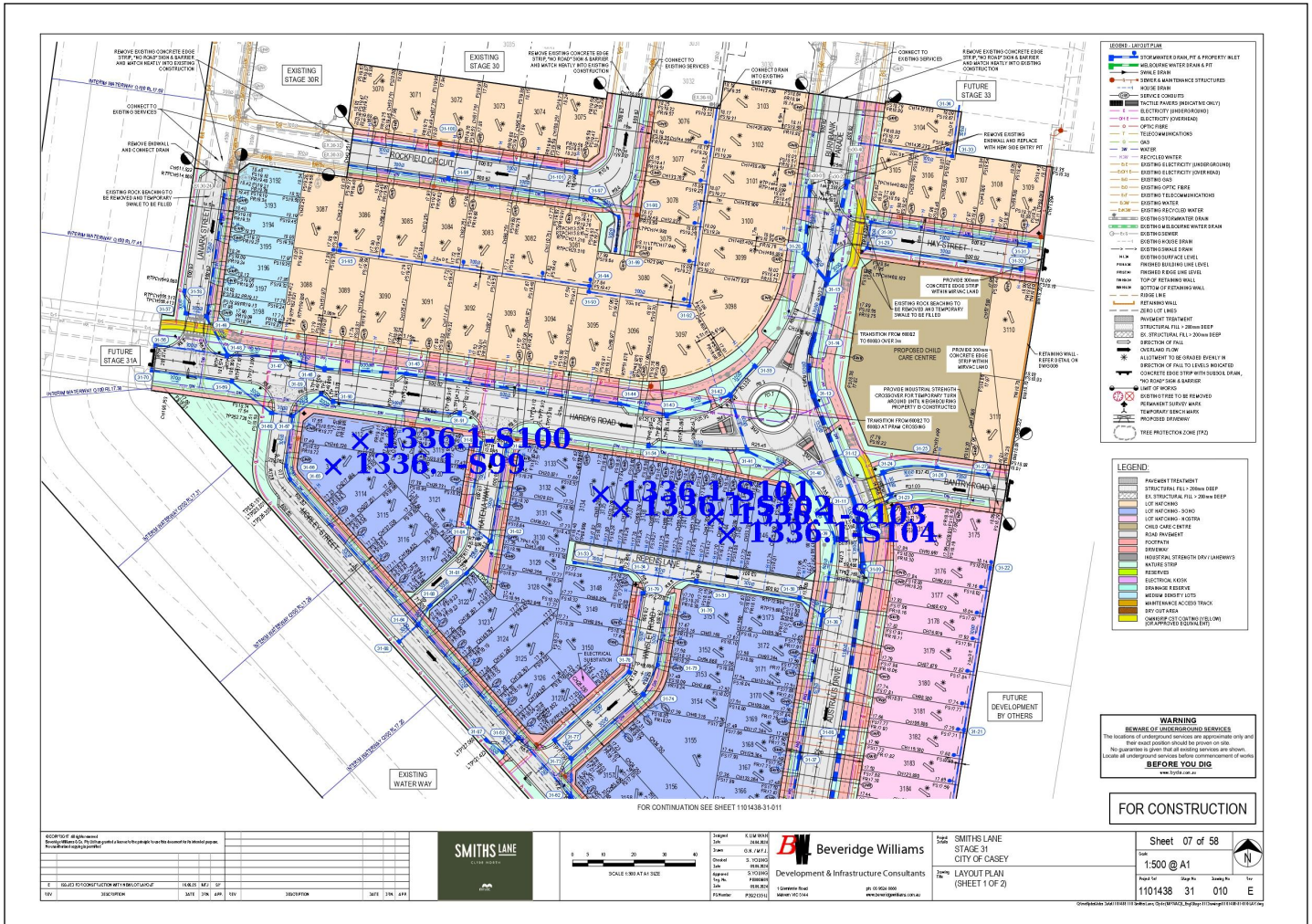
Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Sample Locations Plan

x - approximate test location



Material Test Report



Report Number: GSE1336.1-23
Issue Number: 2 - This version supersedes all previous issues
Reissue Reason: ,
Date Issued: 27/03/2026
Client: WINSLOW CONSTRUCTORS PTY LTD

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

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12101
Date Sampled: 21/07/2025 14:00
Dates Tested: 21/07/2025 - 28/07/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Remarks: LEVEL 1 SN:1373
Specification: 95% Std
Site Selection: Selected by Client
Location: CLYDE NORTH
Material: silty CLAY, medium - high plasticity, brown
Material Source: SITE CUT



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	1336.1-S108	1336.1-S109	1336.1-S110	1336.1-S111	1336.1-S112	1336.1-S113
Date Tested	21/07/2025	21/07/2025	21/07/2025	21/07/2025	21/07/2025	21/07/2025
Time Tested	13:35	13:42	13:50	13:55	14:02	14:08
Test Request #/Location	LOT 3149	LOT 3150	LOT 3154	LOT 3155	LOT 3167/3166	LOT 3170/3171
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.99	1.99	1.98	1.98	2.08	2.08
Field Moisture Content %	9.5	12.6	16.1	13.3	16.0	13.4
Field Dry Density (FDD) t/m ³	1.82	1.76	1.70	1.75	1.80	1.83
Peak Converted Wet Density t/m ³	1.94	1.97	2.00	1.99	2.00	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	5.0	4.0	2.0	2.5	2.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	102.5	100.5	99.0	99.5	104.0	105.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

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

Material Test Report



Report Number: GSE1336.1-24
 Issue Number: 1
 Date Issued: 31/07/2025
 Client: WINSLOW CONSTRUCTORS PTY LTD

Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Project Number: GSE1336.1
 Project Name: SMITHS LANE - STAGE 31
 Project Location: CLYDE NORTH
 Work Request: 12118
 Date Sampled: 23/07/2025 13:28
 Dates Tested: 23/07/2025 - 29/07/2025
 Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
 Specification: 95% Std
 Location: CLYDE
 Material: silty CLAY, medium - high plasticity, brown
 Material Source: On site

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	1336.1-S114	1336.1-S115	1336.1-S116
Date Tested	23/07/2025	23/07/2025	23/07/2025
Time Tested	13:47	14:05	14:20
Test Request #/Location	LOT 3113	LOT 3161	LOT 3162
Chainage (m)	**	**	**
Location Offset (m)	REFER TO SITE PLAN from LEL	REFER TO SITE PLAN from LEL	REFER TO SITE PLAN from LEL
Layer / Reduced Level	FSL	FSL	FSL
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	2.04	2.05	2.04
Field Moisture Content %	16.7	16.7	16.4
Field Dry Density (FDD) t/m ³	1.75	1.76	1.76
Peak Converted Wet Density t/m ³	1.99	1.99	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	1.0	2.5	3.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	102.5	103.0	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

Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-25
Issue Number: 1
Date Issued: 31/07/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12143
Date Sampled: 25/07/2025 12:15
Dates Tested: 25/07/2025 - 30/07/2025
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: CLYDE NORTH
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	1336.1-S117	1336.1-S118	1336.1-S119	1336.1-S120	1336.1-S121	1336.1-S122
Date Tested	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
Time Tested	12:20	12:22	12:30	12:32	12:45	12:47
Test Request #/Location	AS MAKRKED PLAN	AS MAKRKED PLAN	AS MAKRKED PLAN	AS MAKRKED PLAN	AS MAKRKED PLAN	AS MAKRKED PLAN
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.09	2.07	2.10	2.09	2.05	2.04
Field Moisture Content %	15.8	16.0	16.3	14.0	15.4	15.2
Field Dry Density (FDD) t/m ³	1.80	1.78	1.80	1.83	1.77	1.77
Peak Converted Wet Density t/m ³	2.02	2.01	2.03	2.02	2.02	2.01
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.5	1.5	1.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	103.5	103.0	103.5	103.0	101.5	101.0
Compaction Method	Standard	Standard	Standard	Standard	Standard	Standard
Remarks	**	**	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Material Test Report



Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Report Number: GSE1336.1-25
Issue Number: 1
Date Issued: 31/07/2025
Client: WINSLOW CONSTRUCTORS PTY LTD

Project Number: GSE1336.1
Project Name: SMITHS LANE - STAGE 31
Project Location: CLYDE NORTH
Work Request: 12143
Date Sampled: 25/07/2025 12:15
Dates Tested: 25/07/2025 - 30/07/2025
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: CLYDE NORTH
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	1336.1-S123	1336.1-S124	1336.1-S125	1336.1-S126	1336.1-S127	1336.1-S128
Date Tested	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025
Time Tested	13:10	13:25	13:30	13:32	13:40	13:42
Test Request #/Location	AS MAKRKED PLAN	AS MAKRKED PLAN	AS MAKRKED PLAN	AS MAKRKED PLAN	CHILD CARE CENTRE	CHILD CARE CENTRE
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	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	silty CLAY, medium - high plasticity, brown
Test Depth (mm)	275	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) t/m ³	2.05	2.07	2.03	2.04	2.00	2.00
Field Moisture Content %	15.0	16.0	18.2	17.7	18.1	17.6
Field Dry Density (FDD) t/m ³	1.78	1.78	1.71	1.73	1.69	1.70
Peak Converted Wet Density t/m ³	2.01	2.01	2.04	2.04	2.06	2.00
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**	**
Moisture Variation (Wv) %	1.5	1.5	-0.5	-0.5	-0.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**	**
Hilf Density Ratio (%)	101.5	103.0	99.0	100.0	97.0	100.5
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

Material Test Report



Report Number: GSE1336.1-26
 Issue Number: 1
 Date Issued: 11/08/2025
 Client: WINSLOW CONSTRUCTORS PTY LTD

Macquarie Geotechnical Pty Ltd

Melbourne East Laboratory

Factory 2, 11-17 Cyber Loop Dandenong Victoria 3175

Phone: 0450 925 137

Email: grant@macgeo.com.au

Project Number: GSE1336.1
 Project Name: SMITHS LANE - STAGE 31
 Project Location: CLYDE NORTH
 Work Request: 12162
 Date Sampled: 30/07/2025 11:30
 Dates Tested: 30/07/2025 - 08/08/2025
 Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
 Remarks: SN:1376
 Specification: 95% Std
 Site Selection: Selected by Client
 Location: CLYDE NORTH
 Material: silty CLAY, medium - high plasticity, brown
 Material Source: SITE CUT

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Grant Sloan

LABORATORY 21C

NATA Accredited Laboratory Number: 20436

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1

Sample Number	1336.1-S129	1336.1-S130	1336.1-S131
Date Tested	30/07/2025	30/07/2025	30/07/2025
Time Tested	12:00	12:13	12:17
Test Request #/Location	LOT 3110	LOT 3111	CHILD CARE CENTRE
Layer / Reduced Level	FSL	FSL	FSL
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	2.03	2.01	2.02
Field Moisture Content %	15.1	15.8	15.4
Field Dry Density (FDD) t/m ³	1.76	1.74	1.75
Peak Converted Wet Density t/m ³	2.06	2.09	2.08
Adjusted Peak Converted Wet Density t/m ³	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	98.5	96.5	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

