

Alamora Estate Stage 33 Tarneit, Victoria

Level 1 Inspection & Testing Report

2 October 2026



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Winslow Constructors Pty Ltd
50 Barry Road
Campbellfield, VIC 3061

Level 1 Inspection & Testing Report Alamora Estate Stage 33 Tarneit, Victoria

C&T Consulting Engineers has prepared this report to summarise the Level 1 Inspection & Testing activities conducted for the abovementioned project.

Distribution

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For and on behalf of C&T Consulting Engineers

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1. Introduction

This report presents the results of the Level 1 inspection activities, compaction control services and laboratory testing services completed for the Alamora Estate, Stage 33 project located in Tarneit, Victoria (the site).

2. Project Background

C&T Geotechnical (Melbourne) was engaged to provide Level 1 Inspection & Testing services for the construction of fill materials within proposed residential allotments.

Authorisation to proceed was provided by Winslow Constructors (the 'Client') who were the nominated earthworks contractors.

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 (2017) Geotechnical Site Investigations.

C&T Geotechnical (Melbourne) performed the role of the project Geotechnical Inspection & Testing Authority (GITA) with all Level 1 Inspection and Testing services undertaken by an experienced GITA site representative.

3. Scope of Works

3.1 Areas & Duration of Works

This report covers Level 1 Inspection & Testing which commenced on 23 March 2026, and was completed on 21 September 2026, requiring five days of Level 1 Inspection & Testing works.

The filling works were completed on allotments Lot 3301 – 3351 within Stage 33, as shown on Figure 1.

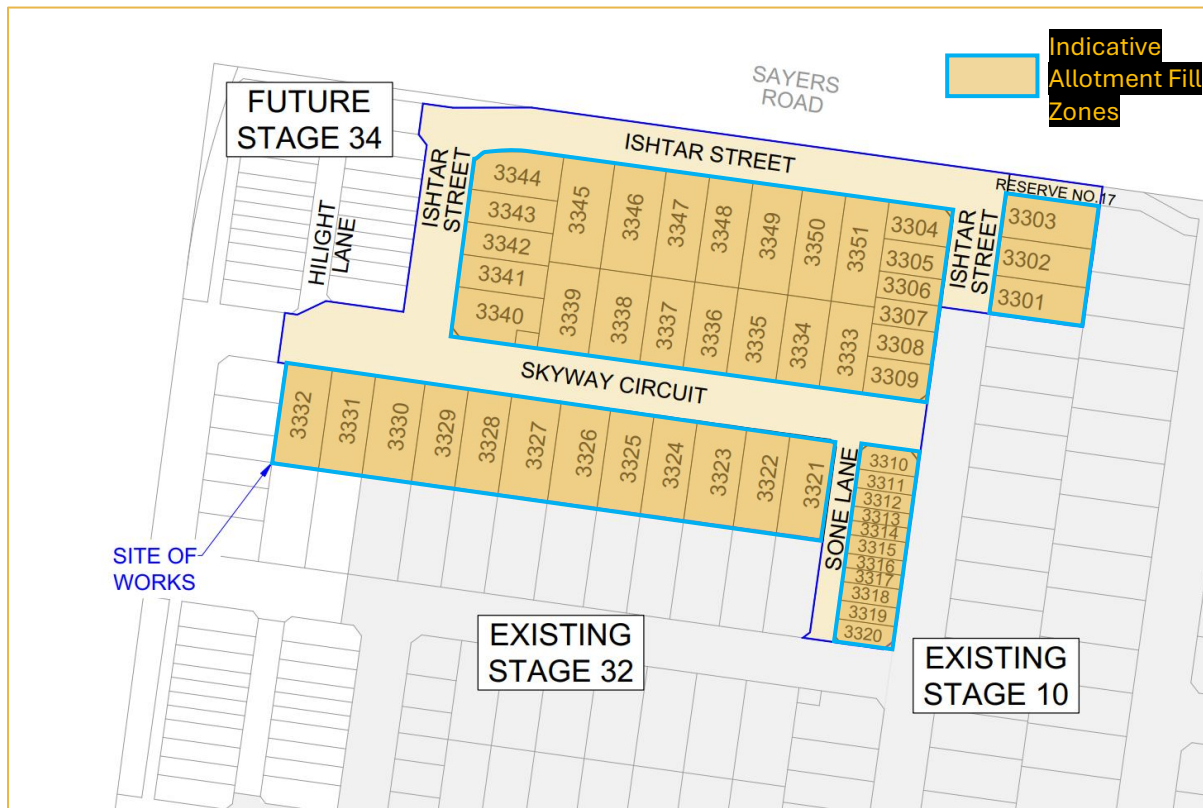


Figure 1: Fill Placement Zone (Source: Creo Civil, 200282.33 R100, Rev 1)

3.2 Placement Methodology

A geotechnical bulk earthworks specification was not available for the project. Based on the supplied Stage 33 civil plans (ref: 200282.33 Earthworks Notes, Prepared by Creo Civil), the placement of the controlled fill on the above-mentioned areas was instructed to be carried out in general accordance with the guidelines presented in AS3798 (2007) Guidelines on Earthworks for Commercial & Residential Developments, with the adoption of 150 mm fill layer thickness.

The fill placement methodology for the works generally involved:

- 1) preparing the base by stripping all loose surficial fill, soft material, vegetation, and materials containing significant organic matter to expose a natural subgrade comprising residual Newer Volcanic Group deposits
- 2) proof rolling the subgrade using a fully loaded moxy, grader or scraper under inspection by the project GITA
- 3) removing oversize particles and unsuitable materials from the fill matrix

- 4) placing approved fill material in loose, horizontal layers not exceeding 200 mm thick (150 mm compacted thickness)
- 5) moisture conditioning the fill to within $\pm 3\%$ of the Standard Optimum Moisture Content (SOMC)
- 6) compacting the fill to achieve a target density ratio of not less than 95 % Standard Compaction
- 7) completing field density testing at a frequency for Type 1 Developments (AS3798), requiring
 - one test per layer or 200 mm per 2500 m²
 - one test per 500 m³ distributed reasonably evenly throughout the full depth and area, or
 - three tests per site visit; whichever requires the most tests
 - it should be noted that a minimum frequency of one field density test per allotment was also requested by the project contractors.

4. Level 1 Inspection & Testing Results

4.1 Subgrade Preparation

The fill placement zones generally required stripping of topsoil, vegetation and organics. Scrapers and graders were used to carry out the site stripping works until a suitable base comprising residual Newer Volcanic Group Silty CLAY / CLAY (CH), high plasticity, brown was achieved.

The subgrade was subsequently scarified, moisture conditioned and proof rolled using a fully loaded moxy, scraper or grader. A compactor was also used to complete several passes on the base prior to filling. No soft spots, deflections, springing or rutting was observed, and the subgrade was considered suitable for fill placement.



Figure 2: Subgrade Preparation – Topsoil Stripping (Source: CTGM)

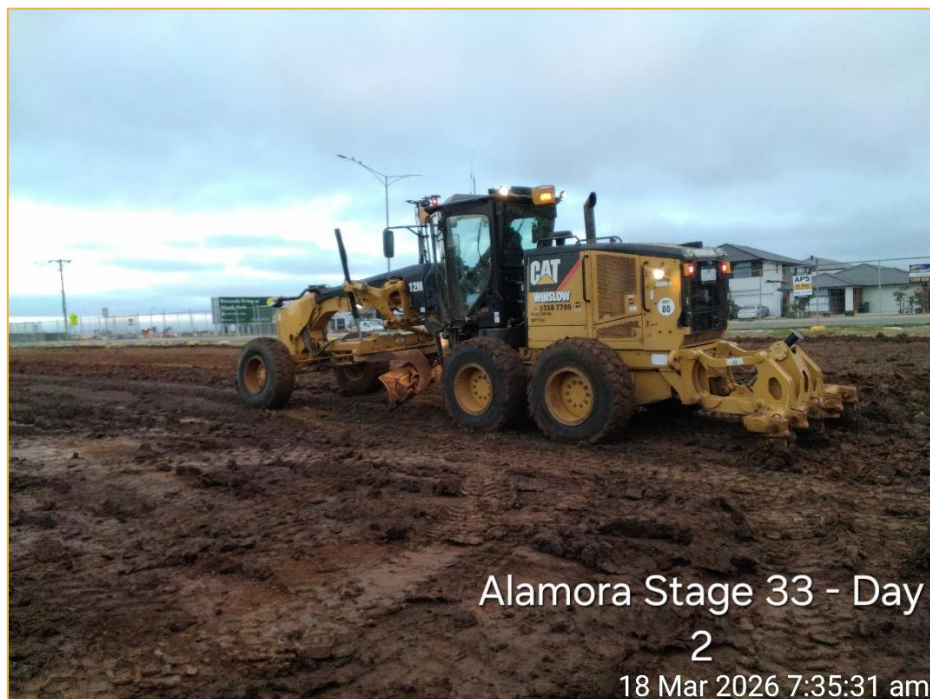


Figure 3: Subgrade Preparation – Scarifying (Source: CTGM)

4.2 Fill Source Materials

Fill source materials were nominated by the project contractors and are understood to comprise site won material from local stages within the development, carted to the site by tandem trucks.

4.3 Inspection of Fill Source Materials

C&T performed a visual assessment of the fill source materials for the following:

- 1) identifying fill material suitability (engineering properties) including cohesion and composition
- 2) observing building debris and vegetative matter
- 3) observing oversize rock particles
- 4) examining the fill moisture.

4.3.1 Material Suitability

The fill materials were noted to be compliant with AS3798 Section 4.0 for the intent and purpose of general filling. The materials typically comprised Gravelly CLAY / Silty CLAY (CI-CH), medium to high plasticity, brown, with varying proportions of sand.

4.3.2 Building Debris & Vegetative Matter

Building debris and vegetative matter were not observed in the nominated fill material.

4.3.3 Oversize Particles

No oversize particles were observed in the fill matrix. Basalt cobble inclusions were observed within the fill matrix, however, were generally less than two-thirds of the nominated layer thickness.

4.3.4 Fill Moisture

The fill was observed to be on the dry side of the inferred optimum moisture content (OMC), typically requiring moisture conditioning with the onsite water cart during placement.

4.4 Fill Construction

The contractor had the following plant available for the construction of the engineered fill:

- 1) 815 compactor
- 2) Scraper

- 3) Grader
- 4) Water cart
- 5) Excavator
- 6) Highway trucks.

4.4.1 Climate

Weather conditions were generally clear to overcast with occasional rain during the works.

4.4.2 Filling Process

The filling process was generally consistent throughout the project. The fill materials were spread over the fill placement zones using the scraper into thin layers not exceeding 200 mm thick. The 815 compactor was used to compact each layer of fill, applying a minimum of 6 – 8 passes per layer observed.

A water cart was used to moisture condition the fill during placement. The thin layers of fill were compacted to achieve a composite layer measuring approximately 150 mm thick. Field density testing was carried out on each composite layer.



Figure 4: Fill Placement – Carting Fill to Site and Moisture Conditioning (Source: CTGM)



Figure 5: Fill Compaction with 815 Compactor (Source: CTGM)

4.5 Compaction Control & Moisture Testing Results

Throughout the filling 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 onsite GITA nominated the location and performed each test. Testing comprised field density tests using a nuclear moisture-density gauge and rapid HILF compaction tests in C&T Geotechnical's NATA accredited testing laboratory (AS1289 5.8.1 and AS1289 5.7.1).

A summary of the field density tests performed for the project is presented in **Appendix A**. Field density and compaction control testing report sheets are presented in **Appendix B** which also includes test location plans. It should be noted that the tests are a representation of the fill placed and support the visual assessment of the works completed.

All tests achieved the minimum target density ratio of 95 % Standard Compaction and adopted moisture variation of within ± 3 % of OMC.

4.6 Compliance Statement

C&T Geotechnical (Melbourne) has undertaken Level 1 Inspection and Testing services for the construction of the fill in the aforementioned areas. **Based on observations made and the results of density tests, it is considered that the controlled fill placed has been constructed in accordance with the guidelines provided by AS3798 (2007).**

5. Post-Earthworks Maintenance & Operational Considerations

5.1 Post-Filling Condition Monitoring & Maintenance

Upon completion of earthworks and issuance of this Level 1 Inspection & Testing report, the following considerations must be observed by the built form team to ensure the long-term performance of the fill platform:

1) **soft spot development:** localised softening or disturbances may occur due to:

- climatic influences
- temporary water ponding (e.g. in footings, road boxing or similar)
- construction traffic
- inadequate surface drainage.

These are not indicative of fill performance failure but are typically the result of environmental or construction operational factors. The remediation of soft spots caused by insufficient maintenance is to be managed by the site operator/owner in accordance with their geotechnical engineer's guidance.

2) **maintenance responsibility:** any softening or surface degradation observed after final proof rolling or handover is considered a maintenance requirement

3) **drainage management:** it is strongly advised that surface drainage be established and maintained effectively to prevent water ingress into the fill materials

4) **intrusive investigations:** any post-completion intrusive geotechnical investigations (e.g. trial pits or boreholes) may compromise the compaction and integrity of the fill

- such activities must be carefully planned and documented, particularly if undertaken by third parties
- any intrusive works within the engineered fill (e.g. trial pits, boreholes or service excavations) must include appropriate reinstatement and recompaction to maintain the integrity of the fill. Failure to do so may affect the performance of the fill platform.

5.2 As Built Survey Requirements

- 1) an as-built survey of engineered fill levels is a critical component of the handover documentation
- 2) this survey must be provided by the project contractor, as it falls outside the scope of the Level 1 Inspection & Testing report.

6. Closure

Should you have any questions related to this report please do not hesitate to contact the undersigned.

For and on behalf of C&T Consulting Engineers

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7. Statement of Limitations

This report has been prepared by C&T Consulting Engineers exclusively for the commissioning client and the project described. The scope of work was limited to the services outlined herein and does not include investigation of all possible site conditions or risks.

Findings, opinions, and recommendations are based on conditions observed during limited sampling, testing, and fieldwork at the time of investigation. Subsurface conditions may vary across the site, and changes can occur after the investigation. No warranty is given that conditions described are representative of the entire site or future conditions.

If site conditions encountered during works differ from those described, C&T Consulting Engineers must be contacted promptly for reassessment and advice. Reliance on this report without such consultation is at the user's risk.

Where information has been provided by the client or third parties, it is assumed to be correct unless otherwise stated. C&T Consulting Engineers accepts no liability for errors, omissions, or misinterpretations arising from such information.

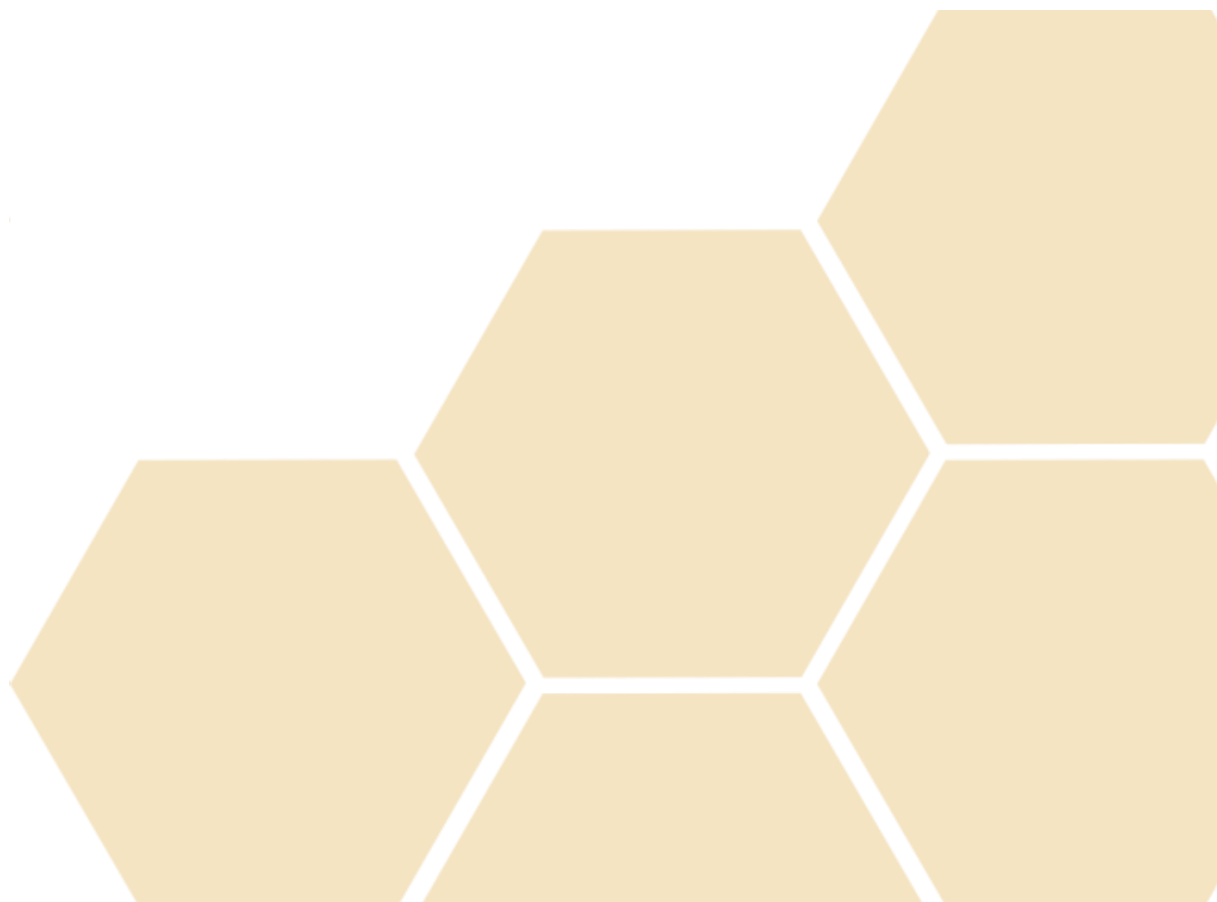
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Appendix A – Field Density Testing Summary



Project Summary Report



GEOTECHNICAL

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47A Assembly Drive Tullamarine VIC 3043

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Email: Tim@ctgeotech.com.au

Report Date: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Project Location:
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Test Methods: AS 1289 5.7.1 STD & 5.8.1 & 2.1.1

Lot #	Sample #	Date Sampled	Location	Easting	Northing	Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	0411-S1	23/03/2026	Lot 3351	291941	5808948	**	FSL	97.5	3.0	20.4	1.80
**	0411-S2	23/03/2026	Lot 3349	291929	5808956	**	FSL	99.0	2.5	24.3	1.81
**	0411-S3	23/03/2026	Lot 3348	291902	5808957	**	FSL	97.0	1.5	21.3	1.81
**	0411-S4	23/03/2026	Lot 3338	291887	5808957	**	FSL	99.0	1.0	20.8	1.86
**	0411-S5	23/03/2026	Lot 3342	291842	5808960	**	FSL	102.0	2.5	22.4	1.87
**	0411-S6	31/08/2026	Lot 3340	291836	5808933	**	FSL	100.5	0.5	28.5	1.88
**	0411-S7	31/08/2026	Lot 3341	291853	5808941	**	FSL	99.5	1.5	27.5	1.89
**	0411-S8	31/08/2026	Lot 3339	291841	5898944	**	FSL	99.5	-0.5	31.3	1.87
**	0411-S9	31/08/2026	Lot 3337	281750	5808943	**	FSL	99.5	0.5	28.7	1.87
**	0411-S10	31/08/2026	Lot 3336	291858	5808942	**	FSL	97.5	0.5	25.8	1.84
**	0411-S11	31/08/2026	Lot 3335	291874	5808936	**	FSL	103.5	2.0	28.1	1.90
**	0411-S12	31/08/2026	Lot 3334	291905	5808939	**	FSL	109.5	2.0	27.1	2.01
**	0411-S13	31/08/2026	Lot 3333	291917	580841	**	FSL	106.0	1.0	28.4	1.97
**	0411-S14	31/08/2026	Lot 3307	291926	580843	**	FSL	103.5	1.5	28.4	1.93
**	0411-S15	31/08/2026	Lot 3308	291930	5808949	**	FSL	101.0	2.0	26.9	1.88
**	0411-S16	31/08/2026	Lot 3309	281934	5808935	**	FSL	104.5	1.5	27.0	1.94
**	0411-S17	21/09/2026	Lot 3344	291824	5808990	**	1	110.0	3.0	23.0	1.92
**	0411-S18	21/09/2026	Lot 3343	291825	5808975	**	1	109.0	2.5	23.1	1.89
**	0411-S19	21/09/2026	Lot 3342	291824	5808965	**	2	103.0	1.5	25.8	1.95
**	0411-S20	21/09/2026	Lot 3345	291848	5808985	**	1	102.0	2.5	22.2	1.91
**	0411-S21	21/09/2026	Lot 3346	291863	5808981	**	2	106.5	2.5	23.4	1.90
**	0411-S22	21/09/2026	Lot 3347	291876	5808981	**	2	106.0	2.5	24.5	1.94
**	0411-S23	21/09/2026	Lot 3350	291920	5808972	**	FSL	102.0	2.5	21.7	1.93
**	0411-S24	21/09/2026	Lot 3304	291959	5808972	**	FSL	102.5	1.5	22.4	1.91
**	0411-S25	21/09/2026	Lot 3305	291956	5808961	**	FSL	106.0	2.5	20.3	1.92
**	0411-S26	21/09/2026	Lot 3306	291956	5808950	**	2	106.0	2.0	22.8	1.89
**	0411-S27	21/09/2026	Lot 3303	292004	5808969	**	2	101.0	1.0	23.9	1.94
**	0411-S28	21/09/2026	Lot 3302	292002	5808959	**	1	106.0	2.5	20.7	1.92
**	0411-S29	21/09/2026	Lot 3301	291994	5808949	**	1	105.0	3.0	23.3	1.90
**	0411-S30	21/09/2026	Lot 3351	292006	5808980	**	2	106.0	2.5	25.2	1.92
**	0411-S31	21/09/2026	Lot 3332	291789	5808914	**	FSL	108.0	2.0	27.0	1.93
**	0411-S32	21/09/2026	Lot 3331	291797	5808912	**	FSL	104.5	2.0	25.3	1.91
**	0411-S33	21/09/2026	Lot 3330	291812	5808911	**	1	106.0	2.0	23.2	1.93
**	0411-S34	21/09/2026	Lot 3329	291825	5808909	**	1	104.0	2.5	23.9	1.94
**	0411-S35	21/09/2026	Lot 3328	291836	5808907	**	2	103.0	1.5	23.7	1.89
**	0411-S36	21/09/2026	Lot 3327	291851	5808905	**	1	108.0	2.0	24.4	1.95
**	0411-S37	21/09/2026	Lot 3326	291865	5808902	**	2	105.0	2.5	24.4	1.94
**	0411-S38	21/09/2026	Lot 3325	291878	5808900	**	FSL	106.0	3.0	25.4	1.95
**	0411-S39	21/09/2026	Lot 3324	291887	5808898	**	FSL	106.5	3.0	24.6	1.92
**	0411-S40	21/09/2026	Lot 3323	291897	5808899	**	2	104.0	2.5	22.8	1.97
**	0411-S41	21/09/2026	Lot 3322	291908	5808899	**	1	106.5	2.5	22.3	1.90
**	0411-S42	21/09/2026	Lot 3321	291934	5808897	**	1	100.0	2.0	24.8	1.91
**	0411-S43	21/09/2026	Lot 3310	291945	5808894	**	FSL	106.5	1.5	24.2	1.93
**	0411-S44	21/09/2026	Lot 3311	291946	5808891	**	FSL	105.0	1.5	23.0	1.90
**	0411-S45	21/09/2026	Lot 3312	291946	5808882	**	FSL	105.5	3.0	28.5	1.92
**	0411-S46	21/09/2026	Lot 3313	291945	5808877	**	1	104.0	2.5	24.9	1.95
**	0411-S47	21/09/2026	Lot 3314	291944	5808868	**	1	102.5	2.5	25.6	1.93
**	0411-S48	21/09/2026	Lot 3315	291944	5808863	**	2	102.0	2.5	26.1	1.90
**	0411-S49	21/09/2026	Lot 3316	291943	5808858	**	2	104.0	2.5	23.4	1.91
**	0411-S50	21/09/2026	Lot 3317	291942	5808854	**	1	103.0	3.0	21.9	1.90
**	0411-S51	21/09/2026	Lot 3318	291941	5808848	**	2	104.0	2.0	20.7	1.97
**	0411-S52	21/09/2026	Lot 3319	291943	5808845	**	FSL	107.5	2.0	23.6	1.95
**	0411-S53	21/09/2026	Lot 3320	291941	5808840	**	FSL	104.0	3.0	21.5	1.93

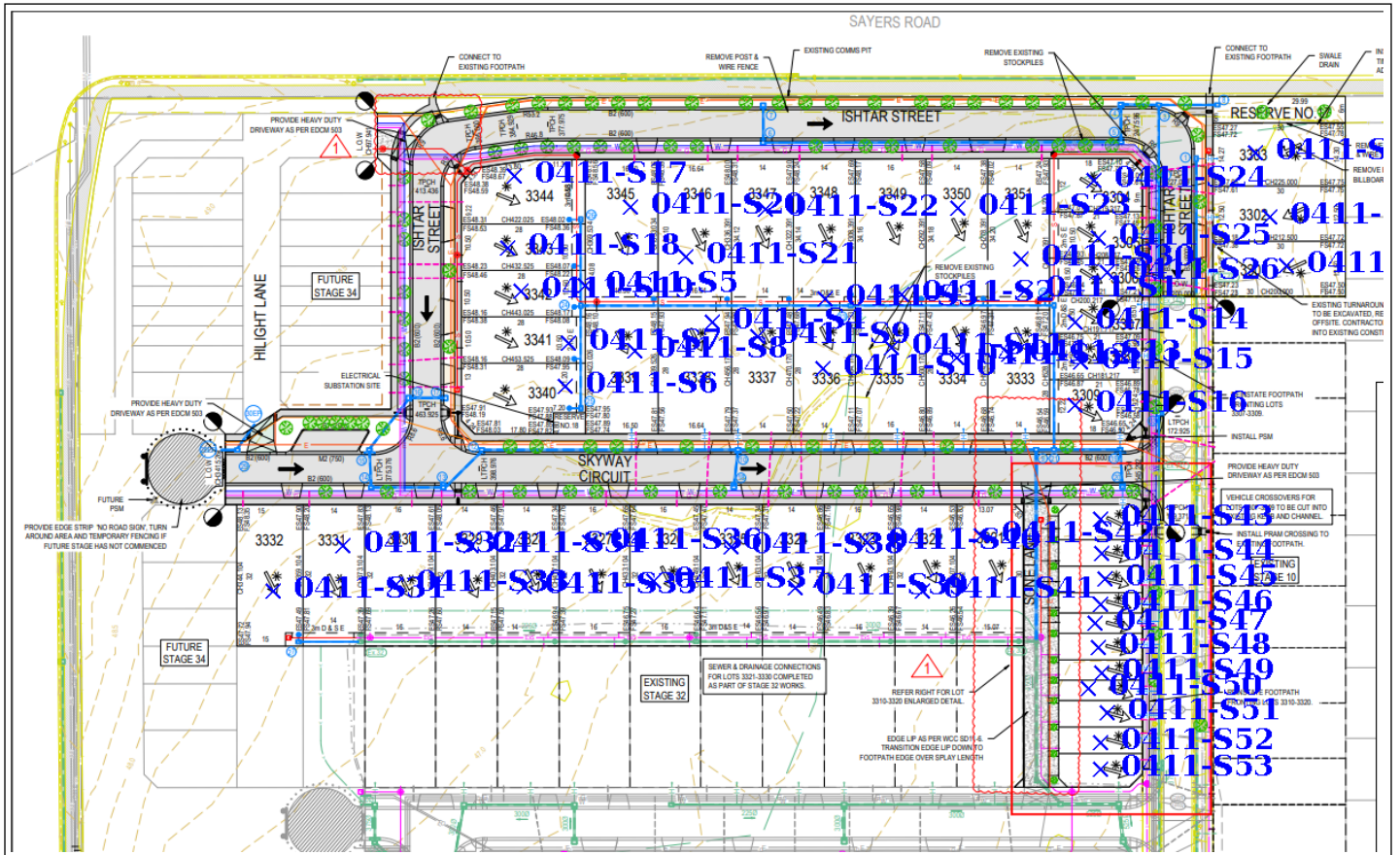
Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Sample Locations Plan

x - approximate test location



Appendix B – Field Density Test Reports



Material Test Report

Report Number: CTG0411-1
Issue Number: 1
Date Issued: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 2073
Date Sampled: 23/03/2026 8:30
Dates Tested: 23/03/2026 - 25/03/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Site Selection: Selected by Client
Location: Tarneit
Material: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite stockpiles



GEOTECHNICAL

C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043

Phone: 0410 530 191

Email: Tim@ctgeotech.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tim Senserrick

Managing Director

Laboratory Number: 21552

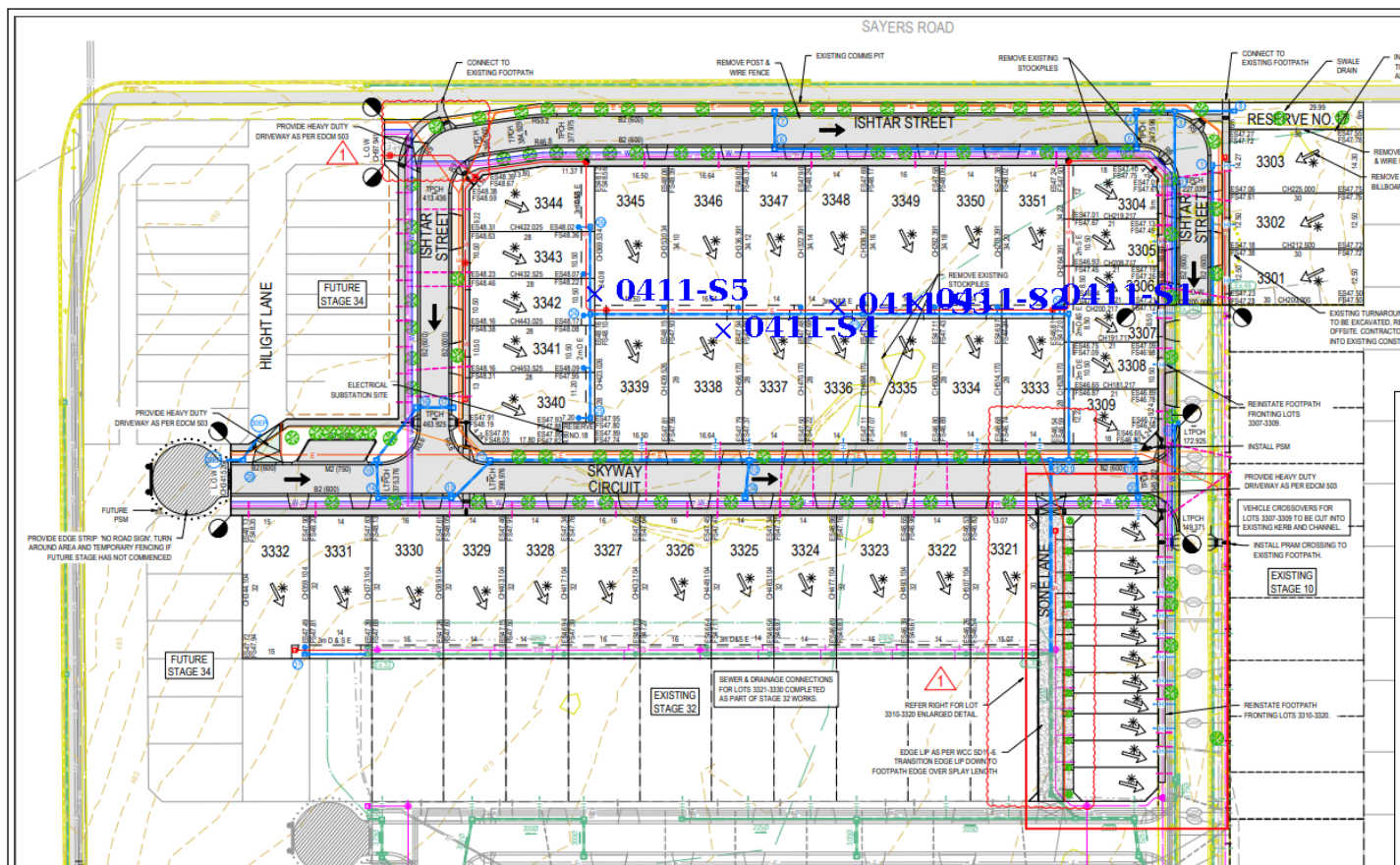
Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	0411-S1	0411-S2	0411-S3	0411-S4	0411-S5
Date Tested	23/03/2026	23/03/2026	23/03/2026	23/03/2026	23/03/2026
Time Tested	11:11	11:33	11:38	11:42	11:51
Test Request #/Location	Lot 3351	Lot 3349	Lot 3348	Lot 3338	Lot 3342
Easting	291941	291929	291902	291887	291842
Northing	5808948	5808956	5808957	5808957	5808960
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150	150	150
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0
Field Wet Density (FWD) t/m ³	1.80	1.81	1.81	1.86	1.87
Field Moisture Content %	20.4	24.3	21.3	20.8	22.4
Field Dry Density (FDD) t/m ³	1.50	1.46	1.49	1.54	1.53
Peak Converted Wet Density t/m ³	1.84	1.83	1.87	1.88	1.84
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	3.0	2.5	1.5	1.0	2.5
Adjusted Moisture Variation %	**	**	**	**	**
Hilf Density Ratio (%)	97.5	99.0	97.0	99.0	102.0
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

x - approximate test location



Material Test Report

Report Number: CTG0411-2
Issue Number: 1
Date Issued: 03/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
 50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3257
Date Sampled: 31/08/2026
Dates Tested: 31/08/2026 - 03/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Tarneit
Material: silty CLAY, med-high plasticity, brown
Material Source: Site Won



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Accredited for compliance with ISO/IEC 17025 - Testing



Tim Senserrick

Approved Signatory: Tim Senserrick

Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S6	0411-S7	0411-S8	0411-S9	0411-S10	0411-S11
Date Tested	31/08/2026	31/08/2026	31/08/2026	31/08/2026	31/08/2026	31/08/2026
Time Tested	9:54	10:00	10:06	10:13	10:19	10:26
Test Request #/Location	Lot 3340	Lot 3341	Lot 3339	Lot 3337	Lot 3336	Lot 3335
Easting	291836	291853	291841	281750	291858	291874
Northing	5808933	5808941	5898944	5808943	5808942	5808936
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) (t/m ³)	1.88	1.89	1.87	1.87	1.84	1.90
Field Moisture Content (%)	28.5	27.5	31.3	28.7	25.8	28.1
Field Dry Density (FDD) (t/m ³)	1.46	1.48	1.42	1.45	1.46	1.49
Peak Converted Wet Density (t/m ³)	1.87	1.90	1.88	1.88	1.88	1.84
Adjusted Peak Converted Wet Density (t/m ³)	**	**	**	**	**	**
Moisture Variation (Wv) (%)	0.5	1.5	-0.5	0.5	0.5	2.0
Adjusted Moisture Variation (%)	**	**	**	**	**	**
Hilf Density Ratio (%)	100.5	99.5	99.5	99.5	97.5	103.5
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: CTG0411-2
Issue Number: 1
Date Issued: 03/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3257
Date Sampled: 31/08/2026
Dates Tested: 31/08/2026 - 03/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Tarneit
Material: silty CLAY, med-high plasticity, brown
Material Source: Site Won



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Approved Signatory: Tim Senserrick

Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S12	0411-S13	0411-S14	0411-S15	0411-S16	
Date Tested	31/08/2026	31/08/2026	31/08/2026	31/08/2026	31/08/2026	
Time Tested	10:32	10:39	10:47	11:04	11:13	
Test Request #/Location	Lot 3334	Lot 3333	Lot 3307	Lot 3308	Lot 3309	
Easting	291905	291917	291926	291930	281934	
Northing	5808939	580841	580843	5808949	5808935	
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	
Thickness of Layer (mm)	150	150	150	150	150	
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	
Test Depth (mm)	125	125	125	125	125	
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	
Percentage of Wet Oversize (%)	0	0	0	0	0	
Field Wet Density (FWD) (t/m ³)	2.01	1.97	1.93	1.88	1.94	
Field Moisture Content (%)	27.1	28.4	28.4	26.9	27.0	
Field Dry Density (FDD) (t/m ³)	1.58	1.53	1.51	1.49	1.53	
Peak Converted Wet Density (t/m ³)	1.84	1.86	1.87	1.86	1.86	
Adjusted Peak Converted Wet Density (t/m ³)	**	**	**	**	**	
Moisture Variation (Wv) (%)	2.0	1.0	1.5	2.0	1.5	
Adjusted Moisture Variation (%)	**	**	**	**	**	
Hilf Density Ratio (%)	109.5	106.0	103.5	101.0	104.5	
Compaction Method	Standard	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	**	

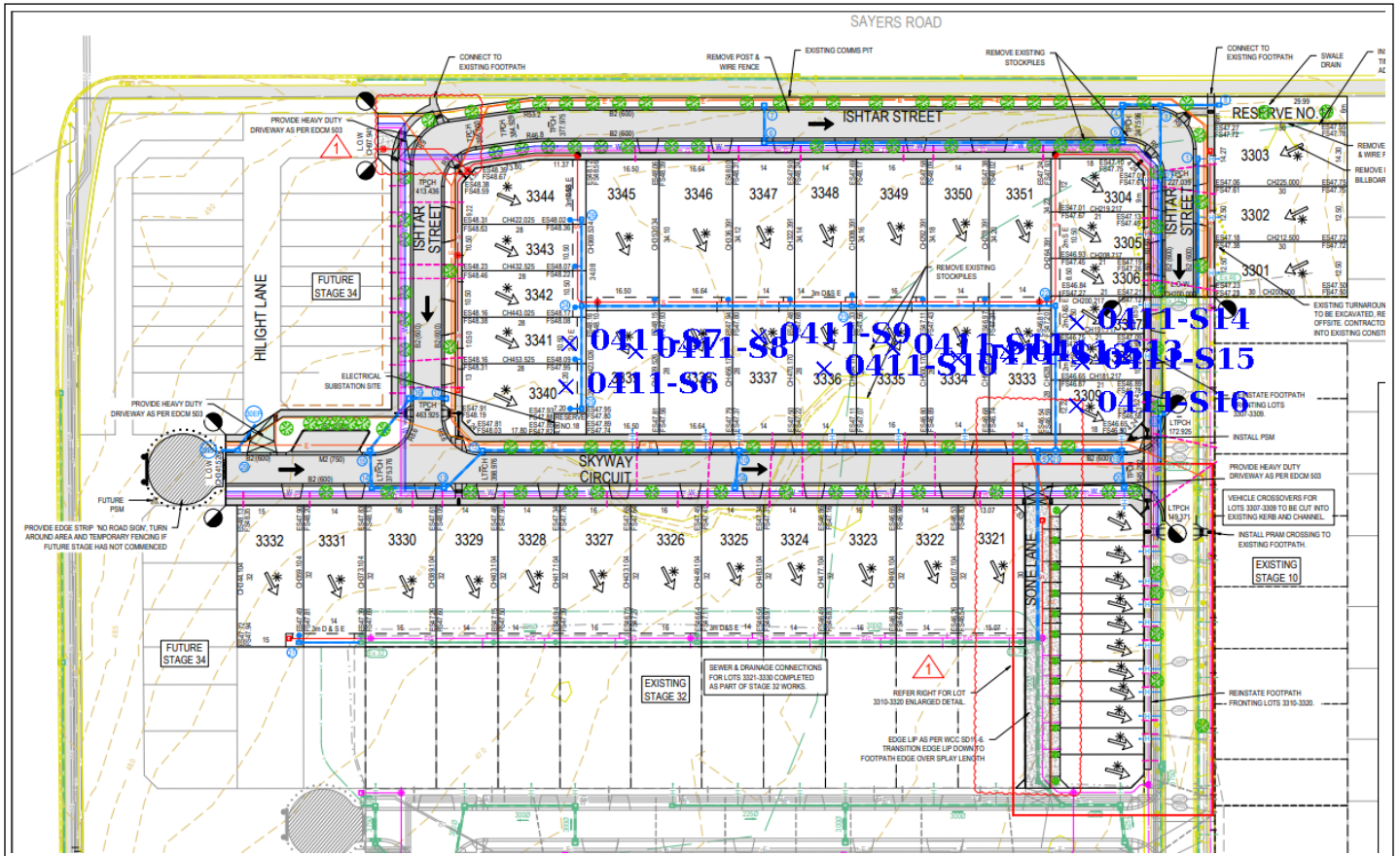
Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: CTG0411-3
Issue Number: 1
Date Issued: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3380
Date Sampled: 21/09/2026 10:00
Dates Tested: 21/09/2026 - 25/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Alamora
Material: silty CLAY, med-high plasticity, brown
Material Source: Onsite



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Approved Signatory: Tim Senserrick

Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S17	0411-S18	0411-S19	0411-S20	0411-S21	0411-S22
Date Tested	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026
Time Tested	10:17	10:22	10:27	10:33	10:38	10:43
Test Request #/Location	Lot 3344	Lot 3343	Lot 3342	Lot 3345	Lot 3346	Lot 3347
Easting	291824	291825	291824	291848	291863	291876
Northing	5808990	5808975	5808965	5808985	5808981	5808981
Layer / Reduced Level	1	1	2	1	2	2
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	4	10	0	0	0
Field Wet Density (FWD) (t/m ³)	1.92	1.89	1.95	1.91	1.90	1.94
Field Moisture Content (%)	23.0	23.1	25.8	22.2	23.4	24.5
Field Dry Density (FDD) (t/m ³)	1.56	1.53	1.55	1.56	1.54	1.56
Peak Converted Wet Density (t/m ³)	1.74	**	**	1.87	1.79	1.83
Adjusted Peak Converted Wet Density (t/m ³)	**	1.73	1.89	**	**	**
Moisture Variation (Wv) (%)	3.0	**	**	2.5	2.5	2.5
Adjusted Moisture Variation (%)	**	2.5	1.5	**	**	**
Hilf Density Ratio (%)	110.0	109.0	103.0	102.0	106.5	106.0
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: CTG0411-3
Issue Number: 1
Date Issued: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3380
Date Sampled: 21/09/2026 10:00
Dates Tested: 21/09/2026 - 25/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Alamora
Material: silty CLAY, med-high plasticity, brown
Material Source: Onsite



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Approved Signatory: Tim Senserrick

Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S23	0411-S24	0411-S25	0411-S26	0411-S27	0411-S28
Date Tested	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026
Time Tested	10:49	10:54	11:00	11:07	11:13	11:18
Test Request #/Location	Lot 3350	Lot 3304	Lot 3305	Lot 3306	Lot 3303	Lot 3302
Easting	291920	291959	291956	291956	292004	292002
Northing	5808972	5808972	5808961	5808950	5808969	5808959
Layer / Reduced Level	FSL	FSL	FSL	2	2	1
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	5	0	0	0	0
Field Wet Density (FWD) (t/m ³)	1.93	1.91	1.92	1.89	1.94	1.92
Field Moisture Content (%)	21.7	22.4	20.3	22.8	23.9	20.7
Field Dry Density (FDD) (t/m ³)	1.59	1.56	1.60	1.54	1.57	1.59
Peak Converted Wet Density (t/m ³)	1.90	**	1.81	1.78	1.92	1.81
Adjusted Peak Converted Wet Density (t/m ³)	**	1.86	**	**	**	**
Moisture Variation (Wv) (%)	2.5	**	2.5	2.0	1.0	2.5
Adjusted Moisture Variation (%)	**	1.5	**	**	**	**
Hilf Density Ratio (%)	102.0	102.5	106.0	106.0	101.0	106.0
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: CTG0411-3
Issue Number: 1
Date Issued: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3380
Date Sampled: 21/09/2026 10:00
Dates Tested: 21/09/2026 - 25/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Alamora
Material: silty CLAY, med-high plasticity, brown
Material Source: Onsite



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Approved Signatory: Tim Senserrick

Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S29	0411-S30	0411-S31	0411-S32	0411-S33	0411-S34
Date Tested	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026
Time Tested	11:24	11:30	11:35	11:41	11:47	11:55
Test Request #/Location	Lot 3301	Lot 3351	Lot 3332	Lot 3331	Lot 3330	Lot 3329
Easting	291994	292006	291789	291797	291812	291825
Northing	5808949	5808980	5808914	5808912	5808911	5808909
Layer / Reduced Level	1	2	FSL	FSL	1	1
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) (t/m ³)	1.90	1.92	1.93	1.91	1.93	1.94
Field Moisture Content (%)	23.3	25.2	27.0	25.3	23.2	23.9
Field Dry Density (FDD) (t/m ³)	1.54	1.53	1.52	1.53	1.57	1.57
Peak Converted Wet Density (t/m ³)	1.80	1.81	1.78	1.83	1.83	1.87
Adjusted Peak Converted Wet Density (t/m ³)	**	**	**	**	**	**
Moisture Variation (Wv) (%)	3.0	2.5	2.0	2.0	2.0	2.5
Adjusted Moisture Variation (%)	**	**	**	**	**	**
Hilf Density Ratio (%)	105.0	106.0	108.0	104.5	106.0	104.0
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: CTG0411-3
Issue Number: 1
Date Issued: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3380
Date Sampled: 21/09/2026 10:00
Dates Tested: 21/09/2026 - 25/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Alamora
Material: silty CLAY, med-high plasticity, brown
Material Source: Onsite



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Approved Signatory: Tim Senserrick
Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S35	0411-S36	0411-S37	0411-S38	0411-S39	0411-S40
Date Tested	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026
Time Tested	12:02	12:07	12:12	12:19	12:25	12:31
Test Request #/Location	Lot 3328	Lot 3327	Lot 3326	Lot 3325	Lot 3324	Lot 3323
Easting	291836	291851	291865	291878	291887	291897
Northing	5808907	5808905	5808902	5808900	5808898	5808899
Layer / Reduced Level	2	1	2	FSL	FSL	2
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	3	6	0	0
Field Wet Density (FWD) (t/m ³)	1.89	1.95	1.94	1.95	1.92	1.97
Field Moisture Content (%)	23.7	24.4	24.4	25.4	24.6	22.8
Field Dry Density (FDD) (t/m ³)	1.53	1.57	1.56	1.55	1.54	1.60
Peak Converted Wet Density (t/m ³)	1.83	1.81	**	**	1.81	1.90
Adjusted Peak Converted Wet Density (t/m ³)	**	**	1.84	1.83	**	**
Moisture Variation (Wv) (%)	1.5	2.0	**	**	3.0	2.5
Adjusted Moisture Variation (%)	**	**	2.5	3.0	**	**
Hilf Density Ratio (%)	103.0	108.0	105.0	106.0	106.5	104.0
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: CTG0411-3
Issue Number: 1
Date Issued: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
 50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3380
Date Sampled: 21/09/2026 10:00
Dates Tested: 21/09/2026 - 25/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Alamora
Material: silty CLAY, med-high plasticity, brown
Material Source: Onsite



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Tim Senserrick

Approved Signatory: Tim Senserrick

Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S41	0411-S42	0411-S43	0411-S44	0411-S45	0411-S46
Date Tested	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026
Time Tested	12:36	12:41	12:46	12:52	12:56	13:02
Test Request #/Location	Lot 3322	Lot 3321	Lot 3310	Lot 3311	Lot 3312	Lot 3313
Easting	291908	291934	291945	291946	291946	291945
Northing	5808899	5808897	5808894	5808891	5808882	5808877
Layer / Reduced Level	1	1	FSL	FSL	FSL	1
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) (t/m ³)	1.90	1.91	1.93	1.90	1.92	1.95
Field Moisture Content (%)	22.3	24.8	24.2	23.0	28.5	24.9
Field Dry Density (FDD) (t/m ³)	1.55	1.53	1.55	1.54	1.49	1.56
Peak Converted Wet Density (t/m ³)	1.78	1.91	1.81	1.81	1.82	1.87
Adjusted Peak Converted Wet Density (t/m ³)	**	**	**	**	**	**
Moisture Variation (Wv) (%)	2.5	2.0	1.5	1.5	3.0	2.5
Adjusted Moisture Variation (%)	**	**	**	**	**	**
Hilf Density Ratio (%)	106.5	100.0	106.5	105.0	105.5	104.0
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: CTG0411-3
Issue Number: 1
Date Issued: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
 50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3380
Date Sampled: 21/09/2026 10:00
Dates Tested: 21/09/2026 - 25/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Alamora
Material: silty CLAY, med-high plasticity, brown
Material Source: Onsite



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Tim Senserrick

Approved Signatory: Tim Senserrick

Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S47	0411-S48	0411-S49	0411-S50	0411-S51	0411-S52
Date Tested	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026	21/09/2026
Time Tested	13:07	13:13	13:19	13:25	13:31	13:36
Test Request #/Location	Lot 3314	Lot 3315	Lot 3316	Lot 3317	Lot 3318	Lot 3319
Easting	291944	291944	291943	291942	291941	291943
Northing	5808868	5808863	5808858	5808854	5808848	5808845
Layer / Reduced Level	1	2	2	1	2	FSL
Thickness of Layer (mm)	150	150	150	150	150	150
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	0	0	0
Field Wet Density (FWD) (t/m ³)	1.93	1.90	1.91	1.90	1.97	1.95
Field Moisture Content (%)	25.6	26.1	23.4	21.9	20.7	23.6
Field Dry Density (FDD) (t/m ³)	1.53	1.51	1.55	1.56	1.63	1.58
Peak Converted Wet Density (t/m ³)	1.88	1.86	1.83	1.84	1.89	1.81
Adjusted Peak Converted Wet Density (t/m ³)	**	**	**	**	**	**
Moisture Variation (Wv) (%)	2.5	2.5	2.5	3.0	2.0	2.0
Adjusted Moisture Variation (%)	**	**	**	**	**	**
Hilf Density Ratio (%)	102.5	102.0	104.0	103.0	104.0	107.5
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: CTG0411-3
Issue Number: 1
Date Issued: 30/09/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0411
Project Name: ALAMORA ESTATE STAGE 33 (LEVEL 1)
Work Request: 3380
Date Sampled: 21/09/2026 10:00
Dates Tested: 21/09/2026 - 25/09/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Location: Alamora
Material: silty CLAY, med-high plasticity, brown
Material Source: Onsite



GEOTECHNICAL

C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043

Phone: 0410 530 191

Email: Tim@ctgeotech.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Tim Senserrick
Managing Director

Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0411-S53					
Date Tested	21/09/2026					
Time Tested	13:42					
Test Request #/Location	Lot 3320					
Easting	291941					
Northing	5808840					
Layer / Reduced Level	FSL					
Thickness of Layer (mm)	150					
Soil Description	silty CLAY, med-high plasticity, brown					
Test Depth (mm)	125					
Sieve used to determine oversize (mm)	19.0					
Percentage of Wet Oversize (%)	0					
Field Wet Density (FWD) (t/m ³)	1.93					
Field Moisture Content (%)	21.5					
Field Dry Density (FDD) (t/m ³)	1.59					
Peak Converted Wet Density (t/m ³)	1.86					
Adjusted Peak Converted Wet Density (t/m ³)	**					
Moisture Variation (Wv) (%)	3.0					
Adjusted Moisture Variation (%)	**					
Hilf Density Ratio (%)	104.0					
Compaction Method	Standard					
Remarks	**					

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

x - approximate test location

