C&T CONSULTING ENGINEERS

Harlow Estate, Stage 6 & 7
Tarneit, Victoria

Level 1 Inspection & Testing Report

18 April 2026

18 April 2026

Winslow Constructors Pty Ltd

50 Barry Road

Campbellfield, VIC 3061

Level 1 Inspection & Testing Report

Harlow Estate, Stage 6 & 7, Tarneit, Victoria

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

Distribution

Original held by	C&T Consulting Engineers
1 electronic copy	Winslow Constructors
1 electronic copy	C&T Geotechnical (Melbourne)

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.

For and on behalf of C&T Consulting Engineers

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Contents

Appendices

1. Introduction

This report presents the results of the Level 1 inspection activities, compaction control services and laboratory testing services completed for the Harlow Estate, Stage 6 & 7 located in Tarneit, Victoria (the site).

2. Project Background

C&T Geotechnical (Melbourne) was engaged to provide Level 1 Inspection and 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 works from 4 August 2025 to 10 February 2026, involving 18 days of filling operations. The filling works took place on the following areas:

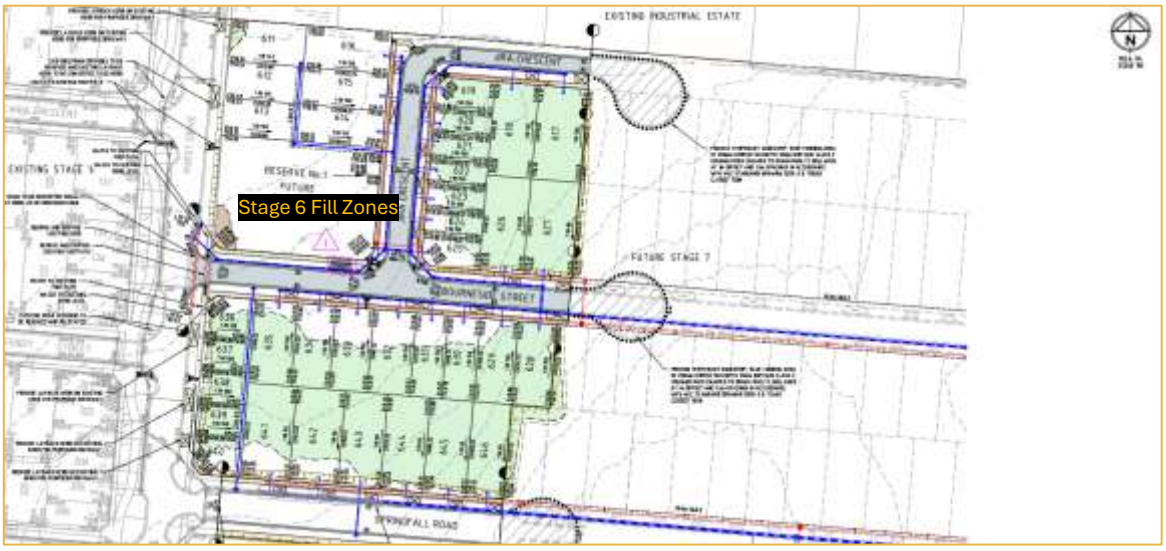

Figure 1: Approximate Level 1 Works Area on Stage 6 (Source: SPIIRE 309442CR200 Rev 1)

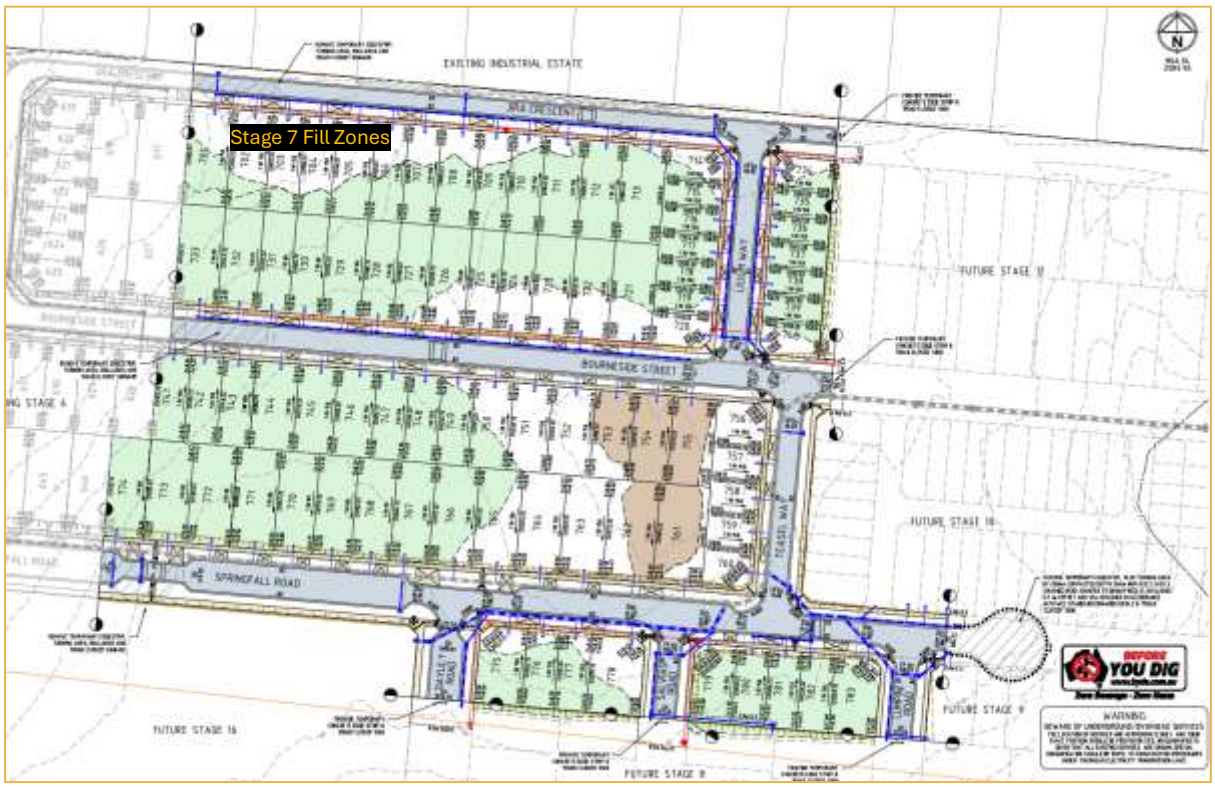

Figure 2: Approximate Level 1 Works Area on Stage 7 (Source: SPIIRE 309443CR200 Rev 0)

3.2 Placement Methodology

A geotechnical bulk earthworks specification was not available for the project. The placement of the controlled fill on the above-mentioned areas was carried out in general accordance with the guidelines presented in AS3798 (2007) Guidelines on Earthworks for Commercial & Residential Developments as well as the general notes on the supplied construction drawings prepared by SPIIRE Australia (Item 8).

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

2) scarifying and moisture conditioning the stripped subgrade

3) proof rolling the subgrade under inspection by the project GITA

4) removing oversize particles and unsuitable materials from the fill matrix

5) placing approved fill material in loose, horizontal layers not exceeding 150 mm in thickness

6) moisture conditioning the fill to within +/- 3 % of the Standard Optimum Moisture Content (SOMC)

7) compacting the fill to achieve a target density ratio of not less than 95 % Standard Compaction

8) completing field density testing at a frequency for large scale developments (Type 1 AS3798) which nominates a frequency of the following:

   - one test per layer or 200 mm per 2500 m^2
   - one test per 500 m^3 distributed reasonably evenly throughout the full depth and area, or
   - three tests per site visit; whichever requires the most tests.

4. Level 1 Inspection & Testing Results

4.1 Subgrade Preparation

Subgrade preparation works were completed using onsite scrapers, graders and dozers and took place over various stages of the projects / as the works progressed.

The fill placement zones underwent stripping of topsoil, vegetation, organics and oversize particles (e.g. isolated and closely packed boulders) until a base comprising residual Newer Volcanic Group logged as Silty CLAY / CLAY (CH), high plasticity, brown to light brown, with varying proportions of sand and gravel was achieved. The subgrade was subsequently scarified, moisture conditioned and proof rolled using a fully loaded water truck (approx. 12 tonnes). No soft spots, deflections, springing or rutting was observed and the subgrade was considered suitable for fill placement.

Figure 3: Subgrade Ripped Prior to Fill Placement (Source: C&T)

Figure 4: Moisture Conditioning Subgrade Prior to Fill Placement (Source: C&T)

4.2 Fill Source Materials

Fill source materials were nominated by the project contractors and are understood to comprise site won material, sourced from onsite cuts, drainage and road boxing works.

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 CLAY / Silty CLAY (CH), high plasticity, brown with varying proportions of sand and gravel.

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 within the fill matrix. Basalt cobbles and boulders were intermittently encountered during fill placement, however were generally less than two thirds of the layer thickness. Larger boulders were instructed to be side-casted during spreading / placement of fill. Onsite dozers were typically required to sort / remove oversize particles from the stockpiled fill matrix.

4.3.4 Fill Moisture

The fill was assessed as being on the dry side of the inferred optimum moisture content (OMC).

4.4 Fill Construction

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

1) 815 Compactor
2) Excavator
3) Scraper
4) Grader
5) Dozer
6) Dump trucks
7) Water Carts.

4.4.1 Climate

Weather conditions were typically fine during the works with occasional periods of overcast and windy conditions.

4.4.2 Filling Process

The filling process was generally consistent throughout the project. The fill materials were spread over the placement zones using the onsite scrapers, graders or 815 Compactor (with blade attachment), in thin / loose layers.

A water cart was used to moisture condition the materials during spreading, typically requiring several

passes. On some occasions, the frequency of the water cart required to be increased due to windy conditions.

The 815 Compactor was used to compact the fill, applying a minimum of 8 – 10 passes per layer observed. The fill materials were compacted to achieve a composite layer measuring approximately 200 mm – 300 mm thick. Field density testing was subsequently carried out on each composite layer.

Figure 5: Spreading of Fill Material & Moisture Conditioning (Source: C&T)

Figure 6: Fill Material Compaction (Source: C&T)

Figure 7: Moisture Conditioning Fill Material (Source: C&T)

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.

Test 0144-S58 failed to meet the minimum target density ratio. This area was subsequently reworked and re-tested (0144-S61) with compliant test results achieved. **All tests generally achieved the minimum target density ratio of 95 % Standard Compaction and moisture variation 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) as well as the general notes on the supplied construction drawings prepared by SPIIRE Australia (Item 8).**

5. Post-Earthworks Maintenance 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.

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

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

3) 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

Gee Singh (RPEng), Director

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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.

The advice in this report is based on information available at the time of preparation. C&T Consulting Engineers has no ongoing obligation to update or revise this document unless separately engaged.

Plans, diagrams, and sketches included are for illustrative purposes only and should not be used for construction or detailed design without independent verification.

This report is intended for the commissioning client's use for the stated project only. No responsibility is accepted for use by other parties or for other purposes. This report must not be altered or reproduced except in full without written approval.

Appendix A – Field Density Testing Summary

Project Summary Report

Report Date: 01/04/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Specification: 95% Standard Compaction & +/- 3% Moisture Variation
Test Methods: AS 1289 5.7.1 STD & 5.8.1 & 2.1.1

GEOTECHNICAL
C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043
Phone: 0410 530 191
Email: Tim@ctgeotech.com.au

Lot #	Sample #	Date Sampled	Location	Easting	Northing	Elevation (m)	Layer	Relative Compaction (%)	Moisture Variation (%)	Moisture Content (%)	Field Wet Density (t/m3)
**	0144-S1	04/08/2025	Lot 618	297910	5812793	**	1	101.5	2.5	27.6	1.84
**	0144-S2	04/08/2025	Lot 627	297913	5812761	**	1	103.0	0.0	28.8	1.84
**	0144-S3	04/08/2025	Lot 621	297893	5812774	**	1	102.0	2.5	29.3	1.84
**	0144-S4	05/08/2025	Lot 623	297890	5812760	**	2	97.5	2.5	28.9	1.74
**	0144-S5	05/08/2025	Lot 626	297907	5812744	**	2	96.0	1.5	29.0	1.75
**	0144-S6	05/08/2025	Lot 617	297918	5812779	**	2	96.5	2.0	29.5	1.75
**	0144-S7	06/08/2025	Lot 775	298034	5812611	**	1	101.5	2.5	27.2	1.83
**	0144-S8	06/08/2025	Lot 777	298055	5812609	**	2	104.0	3.0	27.3	1.83
**	0144-S9	06/08/2025	Lot 782	298124	5812601	**	1	100.0	3.0	27.8	1.80
**	0144-S10	07/08/2025	Lot 780	298107	5812604	**	2	99.5	-0.5	31.0	1.82
**	0144-S11	07/08/2025	Lot 701/702	297960	5812773	**	1	99.0	-0.5	29.9	1.84
**	0144-S12	07/08/2025	Lot 703/704	297978	5812772	**	1	101.0	-0.5	30.7	1.85
**	0144-S13	08/08/2025	Lot 636/637	297821	5812707	**	1	98.5	-1.0	28.6	1.83
**	0144-S14	08/08/2025	Lot 638	297820	5812694	**	2	98.5	-1.0	30.8	1.85
**	0144-S15	08/08/2025	Lot 639	297819	5812681	**	1	102.0	0.0	25.1	1.84
**	0144-S16	12/09/2025	Lots 750/765	298033	5812670	**	1	103.0	-2.0	33.6	1.95
**	0144-S17	12/09/2025	Lots 766/767	298017	5812667	**	1	102.0	-0.5	29.8	1.94
**	0144-S18	12/09/2025	Lots 748/749	298018	5812681	**	1	99.5	-2.0	29.6	1.94
**	0144-S19	13/09/2025	Lot 768/769	297968	5812673	**	1	100.5	2.0	24.3	1.96
**	0144-S20	13/09/2025	Lot 744/745	297954	5812697	**	1	104.5	2.5	23.8	1.94
**	0144-S21	13/09/2025	Lot 771/772	297941	5812674	**	1	102.0	2.0	22.6	1.94
**	0144-S22	15/09/2025	Lot 770	297999	5812621	**	1	98.0	1.5	19.2	1.82
**	0144-S23	15/09/2025	Lot 746	297956	5812674	**	2	95.5	0.0	20.8	1.82
**	0144-S24	15/09/2025	Lot 769	297983	5812681	**	2	102.0	1.5	17.0	1.94
**	0144-S25	16/09/2025	Lot 645	297906	5812672	**	1	99.5	1.5	13.8	2.03
**	0144-S26	16/09/2025	Lot 638	297965	5812632	**	2	98.0	2.0	13.4	2.01
**	0144-S27	16/09/2025	Lot 642	297733	5812612	**	2	99.5	2.5	14.1	2.06
**	0144-S28	28/10/2025	Lot 733/732	297934	5812661	**	1	102.0	2.0	21.7	2.01
**	0144-S29	28/10/2025	Lot 730/729	297959	5812660	**	1	103.0	0.0	23.1	2.06
**	0144-S30	28/10/2025	Lot 721/718	297977	5812655	**	1	96.5	0.0	21.8	1.93
**	0144-S31	29/10/2025	Lot 773/742	297994	5812663	**	2	97.5	2.0	19.4	1.94
**	0144-S32	29/10/2025	Lot 744/770	297956	5812661	**	2	103.5	2.0	17.5	2.03
**	0144-S33	29/10/2025	lot 768/748	297974	5812663	**	2	99.5	2.5	14.8	1.95
**	0144-S34	30/10/2025	Lot 773/742	297915	5812670	**	3	102.5	1.5	17.5	1.94
**	0144-S35	30/10/2025	Lot 744/770	297965	5812665	**	3	104.0	2.5	19.6	2.05
**	0144-S36	30/10/2025	Lot 768/748	297990	5812662	**	3	109.5	2.5	20.7	2.10
**	0144-S37	06/11/2025	Lot 628	297852	5812701	**	FSL	102.0	1.5	17.5	2.06
**	0144-S38	06/11/2025	Lot 631	297871	5812690	**	FSL	106.5	3.0	16.6	2.06
**	0144-S39	06/11/2025	Lot 634	297892	5812685	**	FSL	104.5	2.5	19.8	2.04
**	0144-S40	05/02/2026	Lot 724	298039	5812741	**	FSL	101.0	1.5	18.8	2.02
**	0144-S41	05/02/2026	Lot 723	298045	5812740	**	FSL	99.5	1.0	19.2	2.00
**	0144-S42	05/02/2026	Lot 722	298066	5812740	**	FSL	99.5	2.0	18.0	2.03
**	0144-S43	05/02/2026	Lot 721	298074	5812737	**	FSL	102.0	1.5	17.3	2.06
**	0144-S44	05/02/2026	Lot 719	298084	5812735	**	FSL	101.0	2.5	17.9	2.05
**	0144-S45	05/02/2026	Lot 718	298084	5812735	**	FSL	102.5	0.0	21.2	2.06
**	0144-S46	06/02/2026	Lot 717	298084	5812730	**	FSL	106.5	-1.0	29.2	2.03
**	0144-S47	06/02/2026	Lot 716	298084	5812748	**	FSL	108.5	0.0	26.0	2.06
**	0144-S48	06/02/2026	Lot 715	298079	5812759	**	FSL	106.5	0.0	27.3	2.03
**	0144-S49	06/02/2026	Lot 713	298086	5812768	**	FSL	107.0	-0.5	26.8	2.07
**	0144-S50	06/02/2026	Lot 712	298086	5812779	**	FSL	109.0	0.0	26.8	2.06
**	0144-S51	06/02/2026	Lot 711	298085	5812753	**	FSL	107.0	0.0	24.2	2.08
**	0144-S52	06/02/2026	Lot 710	298088	5812768	**	FSL	106.5	0.5	23.1	2.06
**	0144-S53	06/02/2026	Lot 725	298049	5812734	**	FSL	104.5	0.0	26.0	2.09
**	0144-S54	06/02/2026	Lot 726	298057	5812735	**	FSL	106.5	2.5	21.7	2.05
**	0144-S55	06/02/2026	Lot 727	298066	5812734	**	FSL	105.5	2.0	22.8	2.16
**	0144-S56	09/02/2026	Lot 728	298001	5812737	**	FSL	95.0	2.0	17.9	1.87
**	0144-S57	09/02/2026	Lot 729	297992	5812734	**	FSL	95.0	2.0	18.9	1.87
**	0144-S58	10/02/2026	Lot 730	298056	5812757	**	FSL	88.5	1.5	21.4	1.77
**	0144-S59	10/02/2026	Lot 731	298065	5812767	**	FSL	96.5	-0.5	24.3	1.93
**	0144-S60	10/02/2026	Lot 732	298076	5812777	**	FSL	95.5	-0.5	26.5	1.89
**	0144-S61	19/02/2026	Lot 730(retest)	298056	5812757	**	FSL	102.0	3.0	14.6	1.94

Appendix B – Field Density Test Reports

Material Test Report

Report Number: **CTG0144-4**
Issue Number: 1
Date Issued: 09/08/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 490
Date Sampled: 04/08/2025 07:00
Dates Tested: 04/08/2025 - 08/08/2025
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: On site cut to fill

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

NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

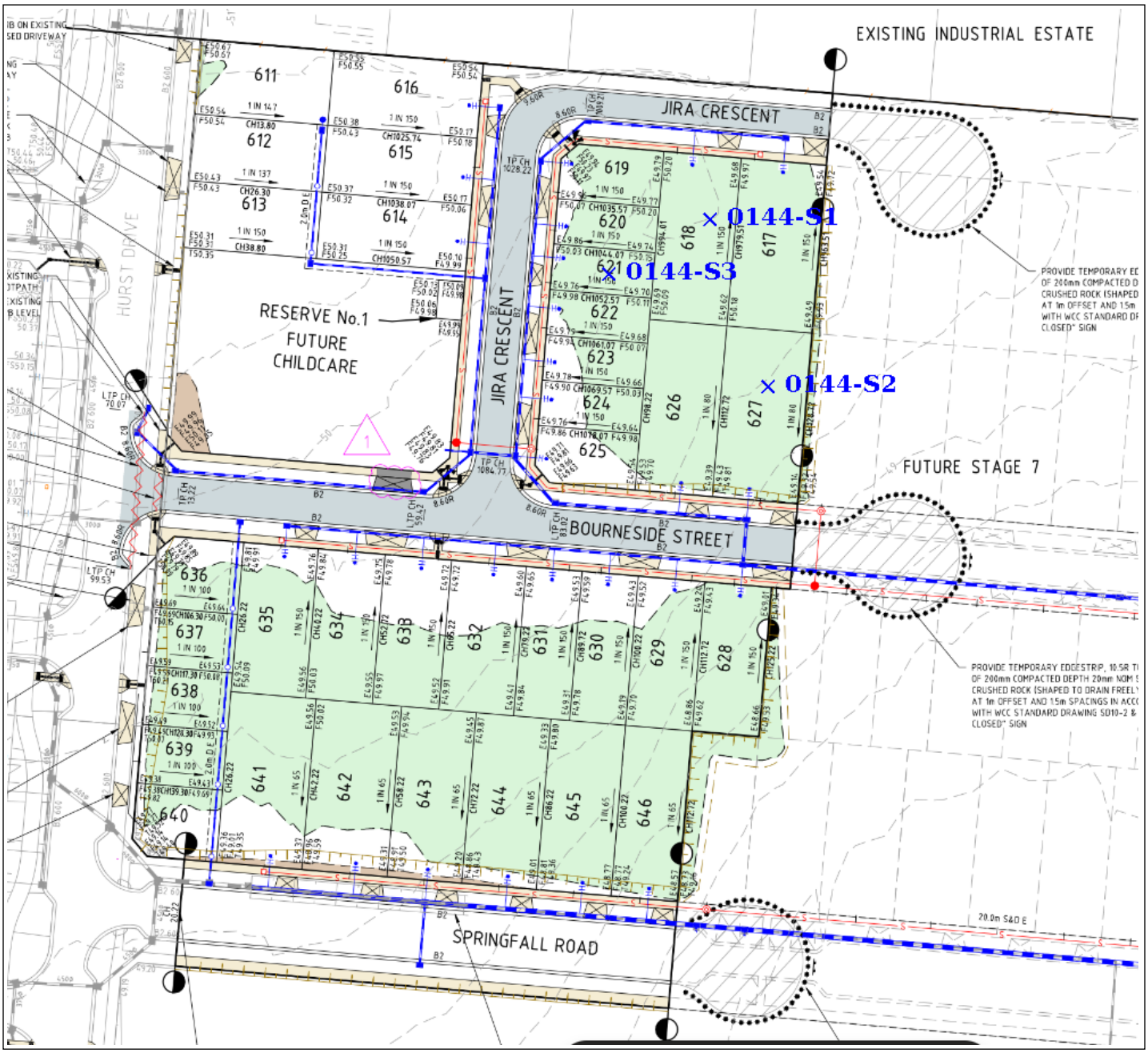
Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S1	0144-S2	0144-S3
Date Tested	04/08/2025	04/08/2025	04/08/2025
Time Tested	08:30	08:40	08:50
Test Request #/Location	Lot 618	Lot 627	Lot 621
Easting	297910	297913	297893
Northing	5812793	5812761	5812774
Layer / Reduced Level	1	1	1
Thickness of Layer (mm)	200	200	200
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	1.84	1.84	1.84
Field Moisture Content %	27.6	28.8	29.3
Field Dry Density (FDD) t/m^3	1.44	1.43	1.42
Peak Converted Wet Density t/m^3	1.82	1.79	1.80
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.5	0.0	2.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**101.5**	**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

Sample Locations Plan

x - approximate test location

GEOTECHNICAL



Material Test Report

Report Number: **CTG0144-5**
Issue Number: 1
Date Issued: 12/08/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 500
Date Sampled: 05/08/2025 07:30
Dates Tested: 05/08/2025 - 12/08/2025
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: On site cut to fill

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

NATA
WORLD RECOGNISED ACCREDITATION

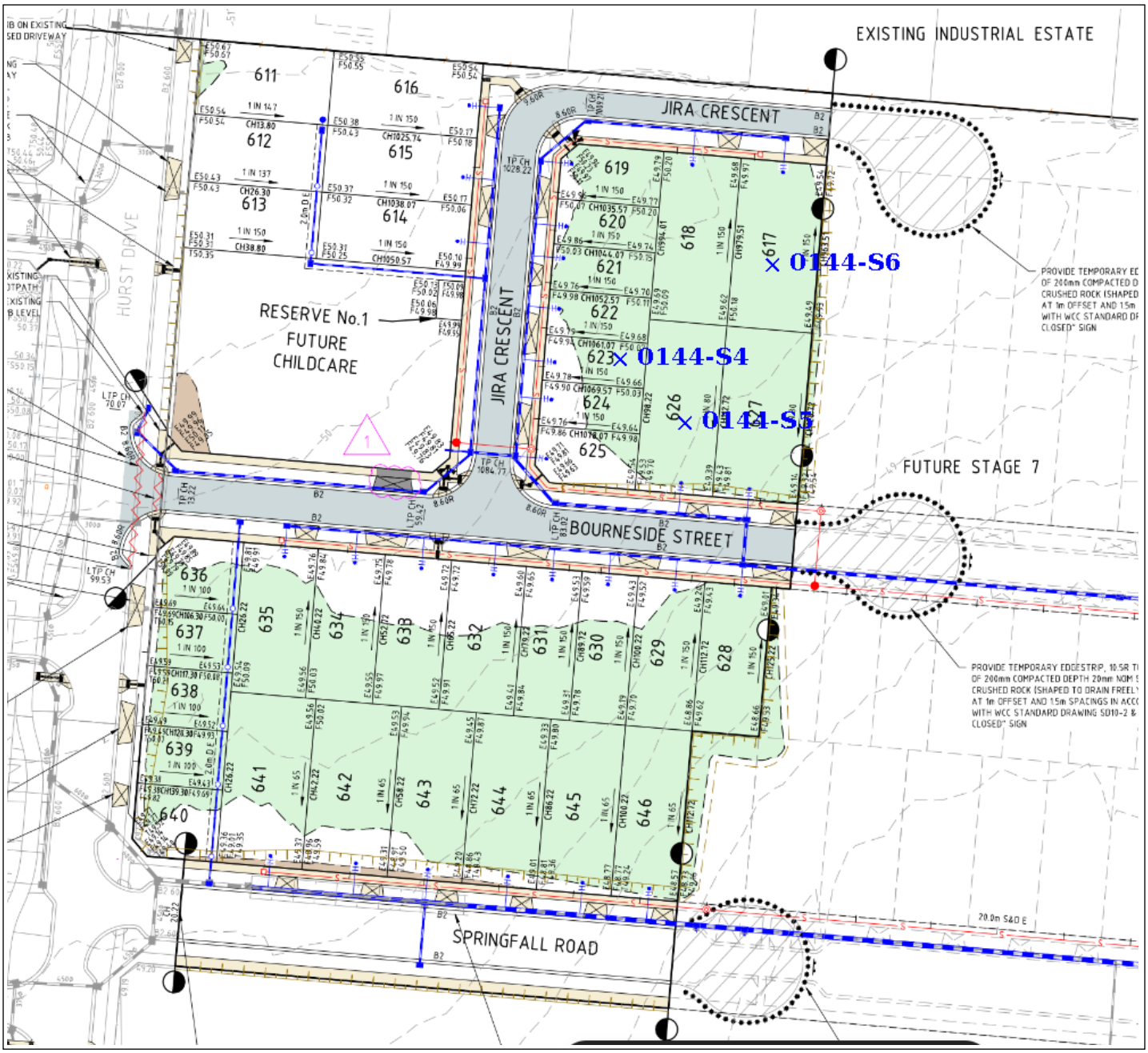
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S4	0144-S5	0144-S6
Date Tested	05/08/2025	05/08/2025	05/08/2025
Time Tested	08:30	08:40	08:50
Test Request #/Location	Lot 623	Lot 626	Lot 617
Easting	297890	297907	297918
Northing	5812760	5812744	5812779
Layer / Reduced Level	2	2	2
Thickness of Layer (mm)	200	200	200
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	1.74	1.75	1.75
Field Moisture Content %	28.9	29.0	29.5
Field Dry Density (FDD) t/m^3	1.35	1.36	1.35
Peak Converted Wet Density t/m^3	1.79	1.82	1.81
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.5	1.5	2.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**97.5**	**96.0**	**96.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **CTG0144-6**
Issue Number: 1
Date Issued: 12/08/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 516
Date Sampled: 06/08/2025 07:30
Dates Tested: 06/08/2025 - 12/08/2025
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: silty CLAY, med-high plasticity, brown
Material Source: On site cut to fill

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

NATA
WORLD RECOGNISED ACCREDITATION

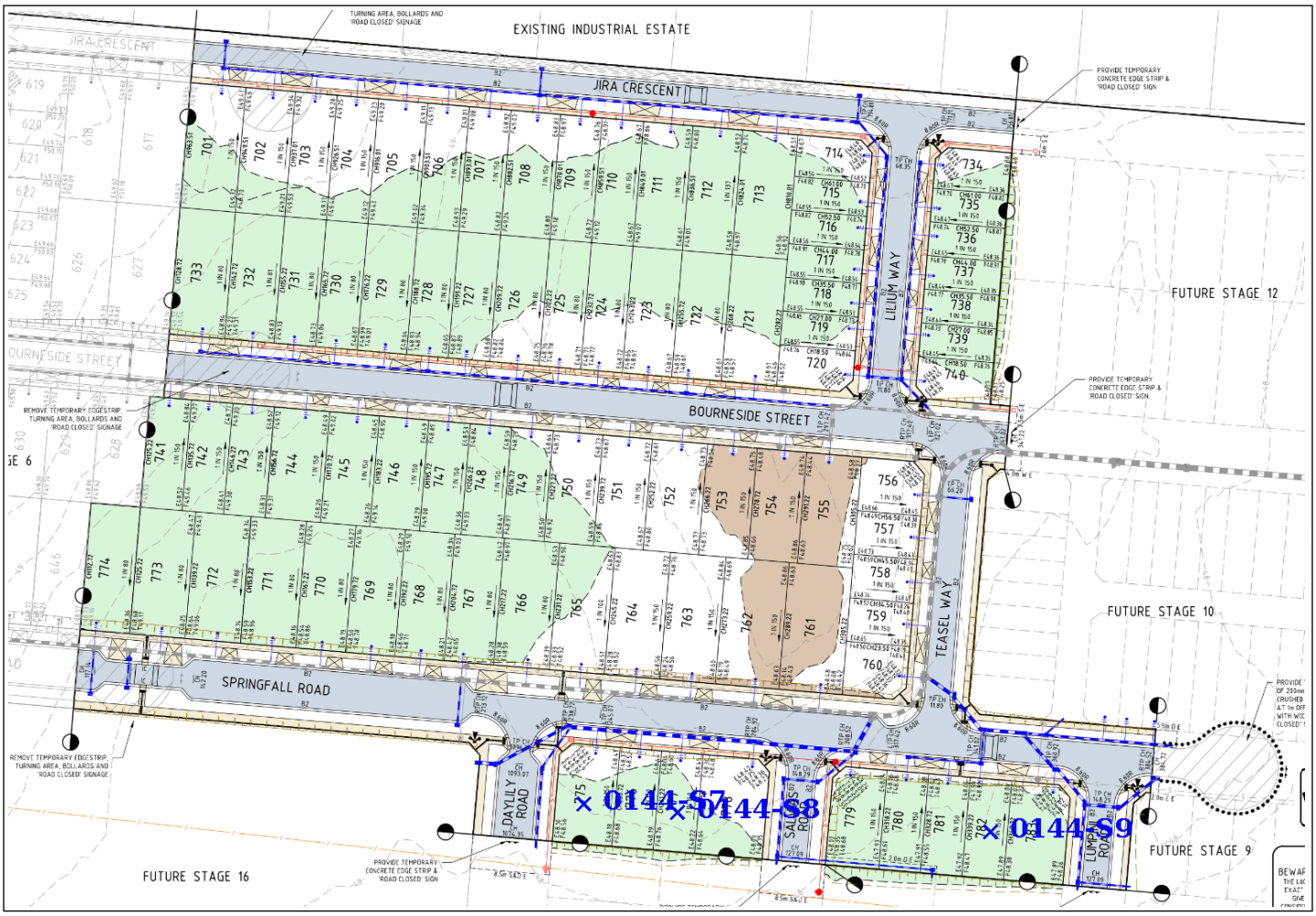
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S7	0144-S8	0144-S9
Date Tested	06/08/2025	06/08/2025	06/08/2025
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 775	Lot 777	Lot 782
Easting	298034	298055	298124
Northing	5812611	5812609	5812601
Layer / Reduced Level	1	2	1
Thickness of Layer (mm)	200	200	200
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	1.83	1.83	1.80
Field Moisture Content %	27.2	27.3	27.8
Field Dry Density (FDD) t/m^3	1.44	1.43	1.41
Peak Converted Wet Density t/m^3	1.80	1.75	1.80
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	2.5	3.0	3.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**101.5**	**104.0**	**100.0**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **CTG0144-7**
Issue Number: 1
Date Issued: 20/08/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 529
Date Sampled: 07/08/2025 07:30
Dates Tested: 07/08/2025 - 19/08/2025
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: On site cut to fill

GEOTECHNICAL
C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043
Phone: 0410 530 191
Email: Tim@ctgeotech.com.au

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NATA
WORLD RECOGNISED ACCREDITATION

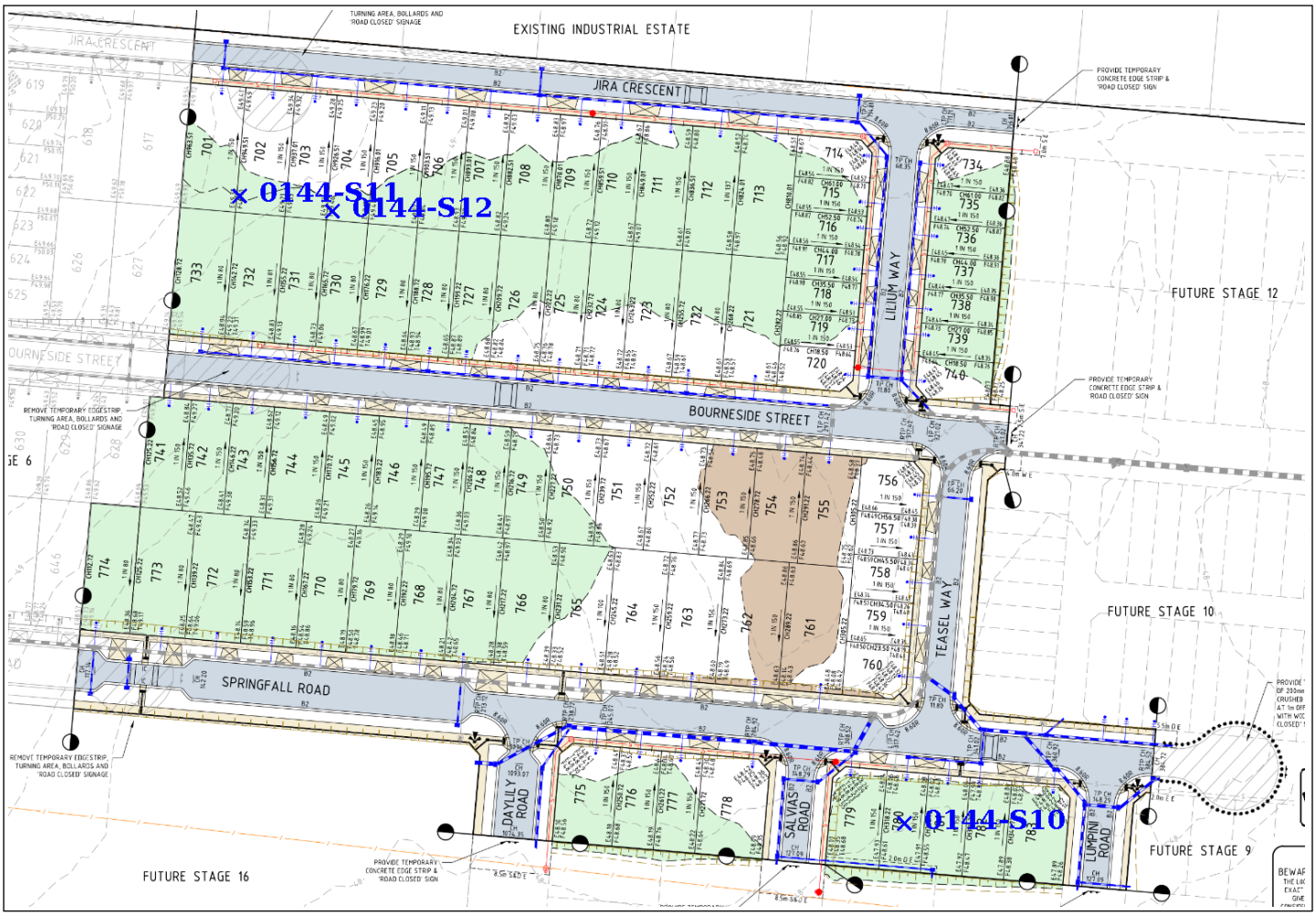
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S10	0144-S11	0144-S12
Date Tested	07/08/2025	07/08/2025	07/08/2025
Time Tested	10:00	10:10	10:20
Test Request #/Location	Lot 780	Lot 701/702	Lot 703/704
Easting	298107	297960	297978
Northing	5812604	5812773	5812772
Layer / Reduced Level	2	1	1
Thickness of Layer (mm)	200	200	200
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	1.82	1.84	1.85
Field Moisture Content %	31.0	29.9	30.7
Field Dry Density (FDD) t/m^3	1.39	1.42	1.41
Peak Converted Wet Density t/m^3	1.83	1.86	1.83
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	-0.5	-0.5	-0.5
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**99.5**	**99.0**	**101.0**
Compaction Method	**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: **CTG0144-8**
Issue Number: 1
Date Issued: 20/08/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 539
Date Sampled: 08/08/2025 07:30
Dates Tested: 08/08/2025 - 19/08/2025
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: On site cut to fill

GEOTECHNICAL
C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043
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NATA
WORLD RECOGNISED ACCREDITATION

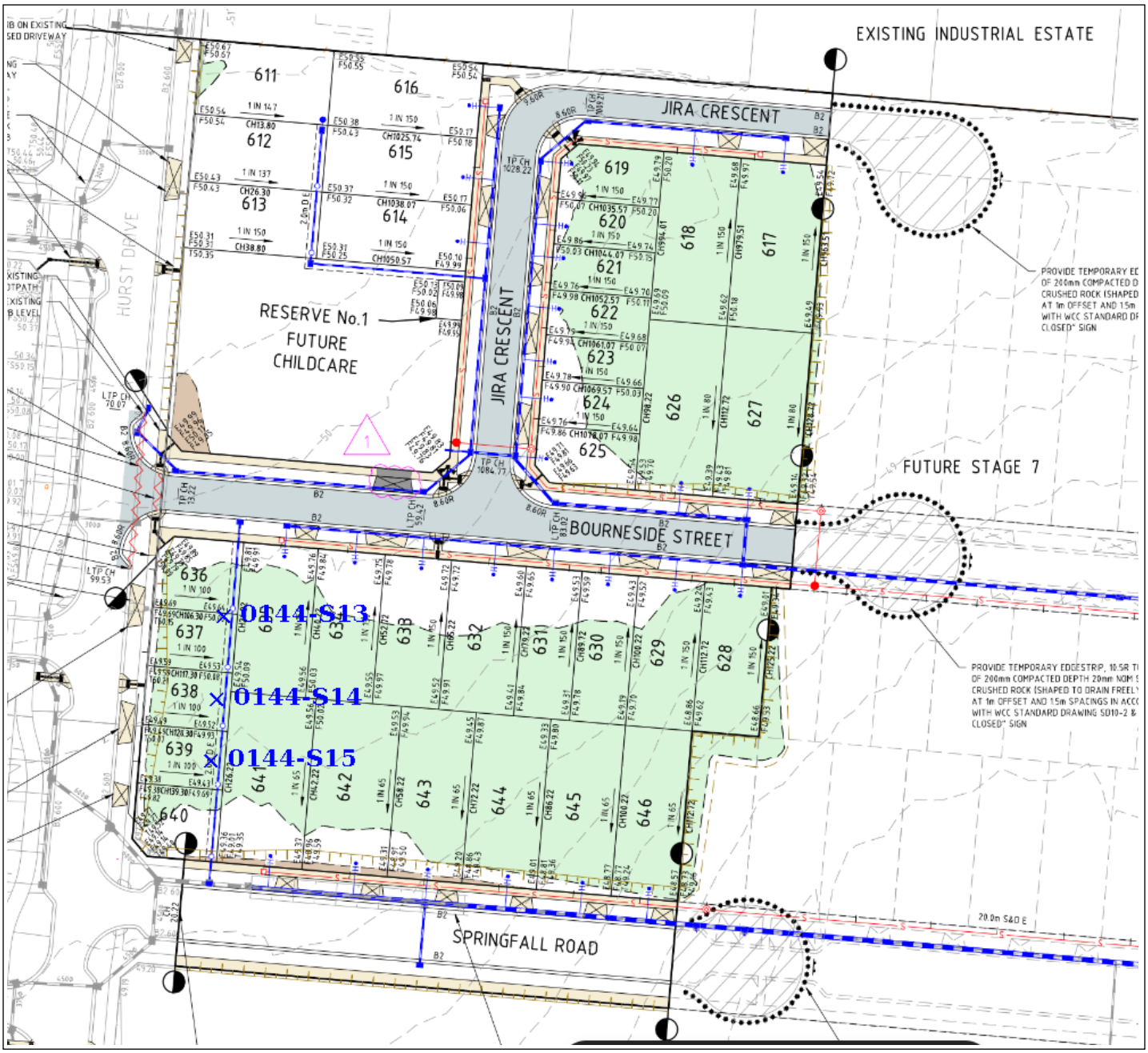
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S13	0144-S14	0144-S15
Date Tested	08/08/2025	08/08/2025	08/08/2025
Time Tested	12:30	12:40	12:50
Test Request #/Location	Lot 636/637	Lot 638	Lot 639
Easting	297821	297820	297819
Northing	5812707	5812694	5812681
Layer / Reduced Level	1	2	1
Thickness of Layer (mm)	200	200	200
Soil Description	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown	silty CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0
Field Wet Density (FWD) t/m^3	1.83	1.85	1.84
Field Moisture Content %	28.6	30.8	25.1
Field Dry Density (FDD) t/m^3	1.42	1.41	1.47
Peak Converted Wet Density t/m^3	1.85	1.87	1.81
Adjusted Peak Converted Wet Density t/m^3	**	**	**
Moisture Variation (Wv) %	-1.0	-1.0	0.0
Adjusted Moisture Variation %	**	**	**
Hilf Density Ratio (%)	**98.5**	**98.5**	**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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **CTG0144-9**
Issue Number: 1
Date Issued: 16/09/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 808
Date Sampled: 12/09/2025 07:30
Dates Tested: 12/09/2025 - 15/09/2025
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: gravelly CLAY, med-high plasticity, brown
Material Source: On site stockpiles

GEOTECHNICAL
C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043
Phone: 0410 530 191
Email: Tim@ctgeotech.com.au

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NATA
WORLD RECOGNISED ACCREDITATION

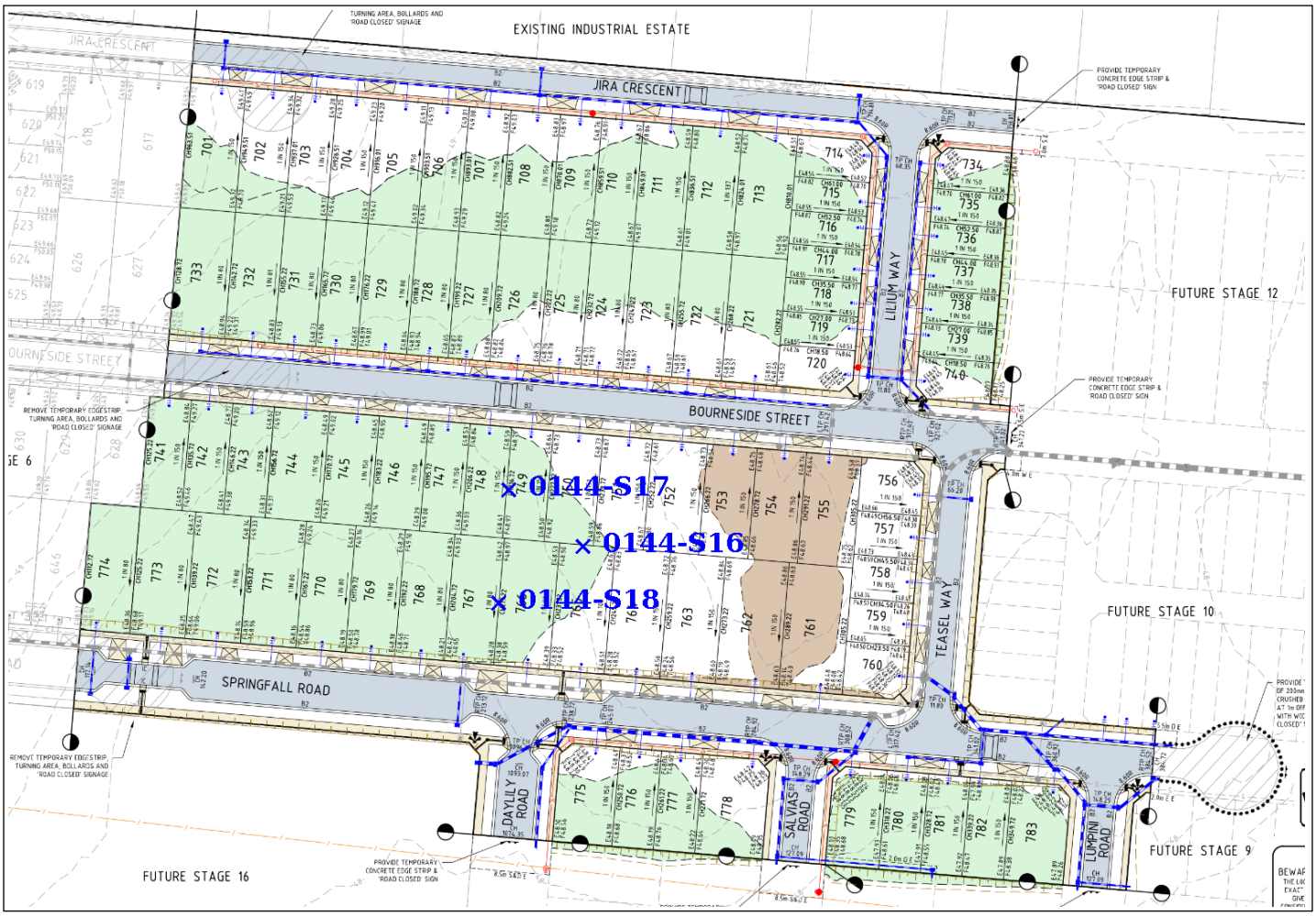
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S16	0144-S17	0144-S18
Date Tested	12/09/2025	12/09/2025	12/09/2025
Time Tested	14:00	14:10	14:20
Test Request #/Location	Lots 750/765	Lots 766/767	Lots 748/749
Easting	298033	298017	298018
Northing	5812670	5812667	5812681
Layer / Reduced Level	1	1	1
Thickness of Layer (mm)	200	200	200
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	7	2	6
Field Wet Density (FWD) t/m^3	1.95	1.94	1.94
Field Moisture Content %	33.6	29.8	29.6
Field Dry Density (FDD) t/m^3	1.46	1.49	1.50
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	1.89	1.90	1.96
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	-2.0	-0.5	-2.0
Hilf Density Ratio (%)	**103.0**	**102.0**	**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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **CTG0144-10**
Issue Number: 1
Date Issued: 18/09/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 820
Date Sampled: 13/09/2025 07:00
Dates Tested: 13/09/2025 - 17/09/2025
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: gravelly CLAY, med-high plasticity, brown
Material Source: On site stockpiles

GEOTECHNICAL

C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043
Phone: 0410 530 191
Email: Tim@ctgeotech.com.au

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NATA
WORLD RECOGNISED ACCREDITATION

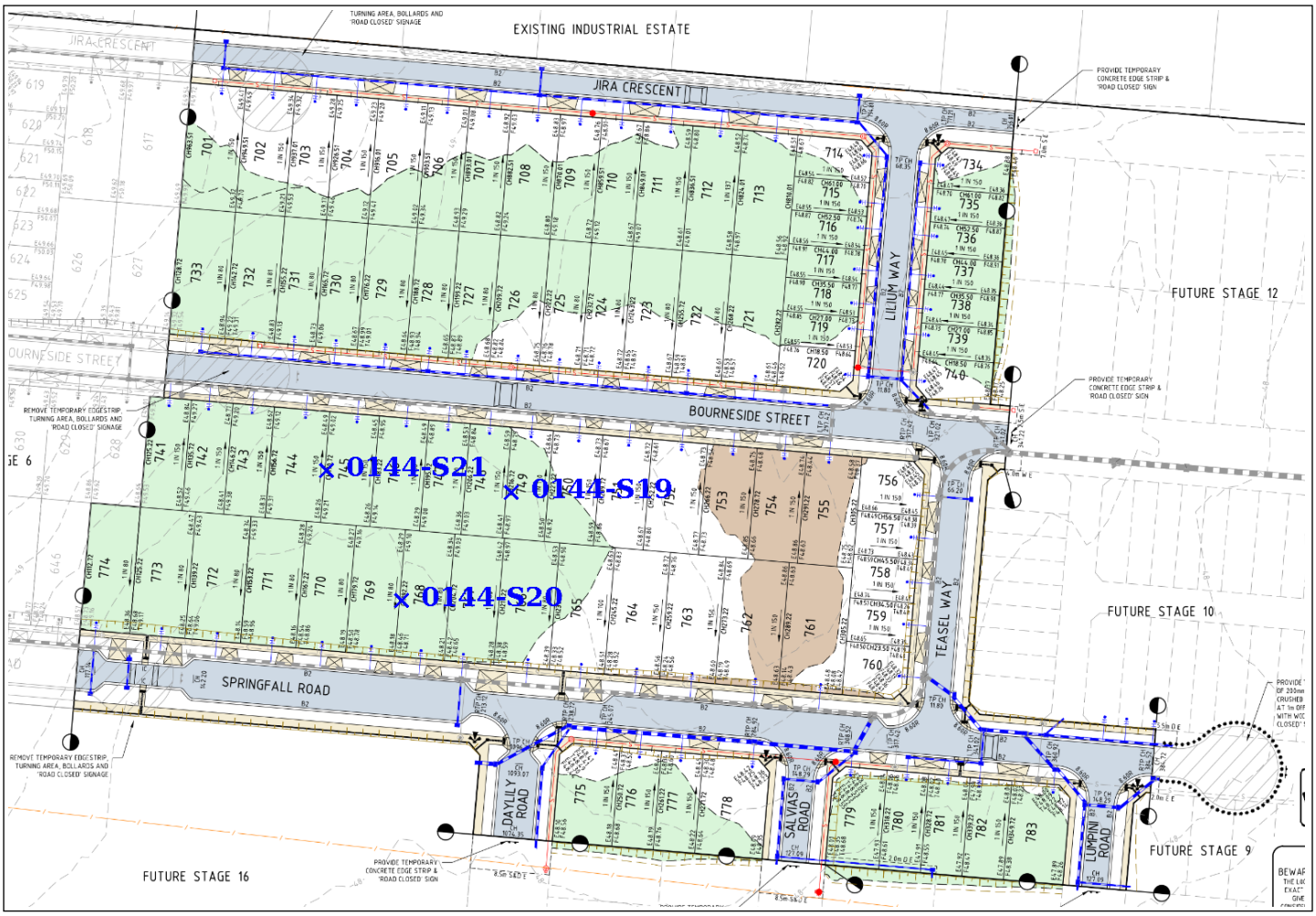
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S19	0144-S20	0144-S21
Date Tested	13/09/2025	13/09/2025	13/09/2025
Time Tested	12:00	12:10	12:20
Test Request #/Location	Lot 768/769	Lot 744/745	Lot 771/772
Easting	297968	297954	297941
Northing	5812673	5812697	5812674
Layer / Reduced Level	1	1	1
Thickness of Layer (mm)	200	200	200
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	8	8	7
Field Wet Density (FWD) t/m^3	1.96	1.94	1.94
Field Moisture Content %	24.3	23.8	22.6
Field Dry Density (FDD) t/m^3	1.57	1.57	1.58
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	1.94	1.86	1.90
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.0	2.5	2.0
Hilf Density Ratio (%)	**100.5**	**104.5**	**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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **CTG0144-11**
Issue Number: 1
Date Issued: 18/09/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 823
Date Sampled: 15/09/2025 07:30
Dates Tested: 15/09/2025 - 18/09/2025
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: gravelly CLAY, med-high plasticity, brown
Material Source: On-site Stockpile

GEOTECHNICAL
C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043
Phone: 0410 530 191
Email: Tim@ctgeotech.com.au

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NATA
WORLD RECOGNISED ACCREDITATION

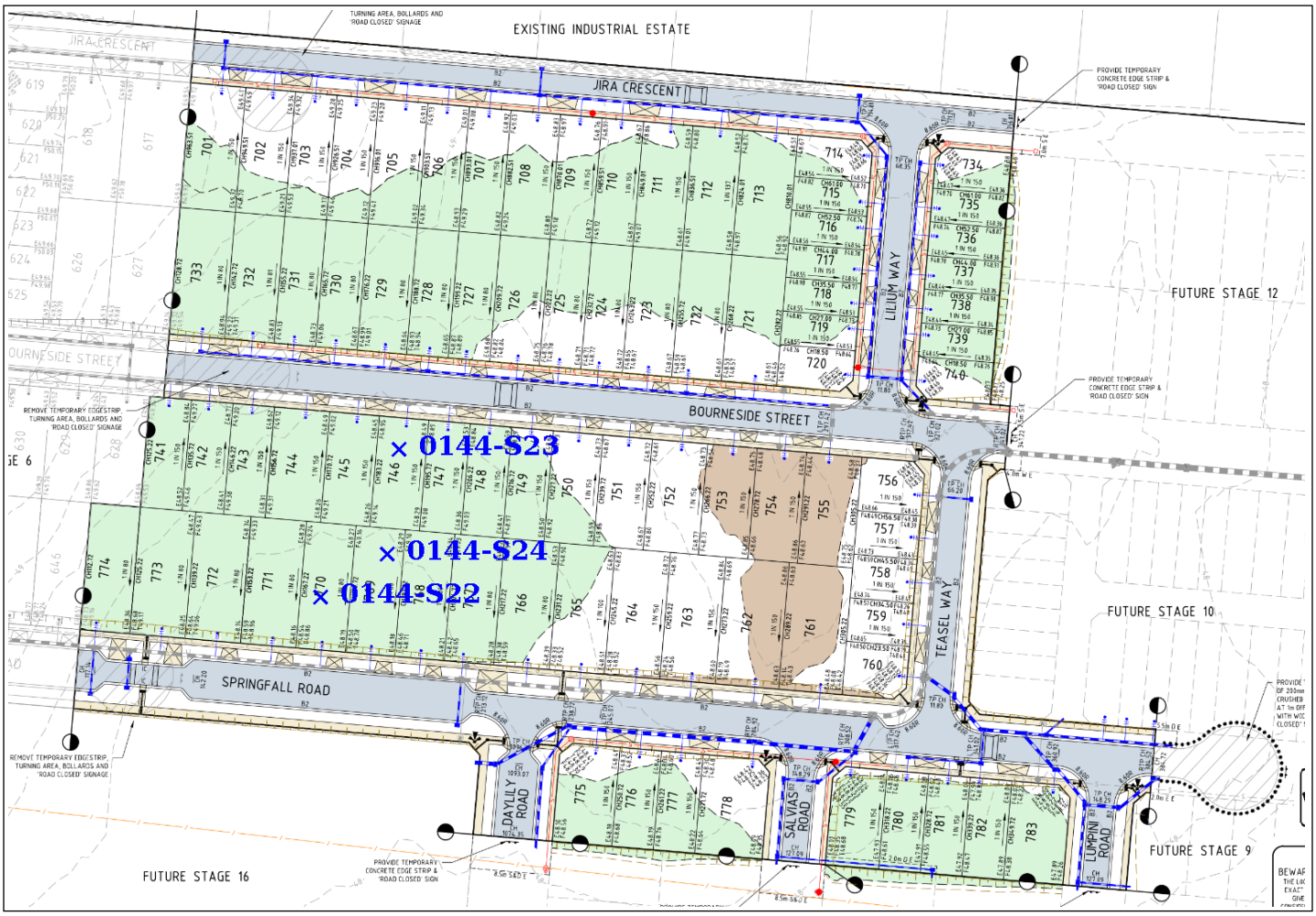
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S22	0144-S23	0144-S24
Date Tested	15/09/2025	15/09/2025	15/09/2025
Time Tested	13:01	13:09	13:17
Test Request #/Location	Lot 770	Lot 746	Lot 769
Easting	297999	297956	297983
Northing	5812621	5812674	5812681
Layer / Reduced Level	1	2	2
Thickness of Layer (mm)	200	200	200
Soil Description	Silty CLAY, m-h plas, brown, trace gravel	Silty CLAY, m-h plas, brown, trace gravel	Gravelly CLAY, med plas, brown, trace gravel
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	8	5	7
Field Wet Density (FWD) t/m^3	1.82	1.82	1.94
Field Moisture Content %	19.2	20.8	17.0
Field Dry Density (FDD) t/m^3	1.53	1.51	1.66
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	1.86	1.91	1.90
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	1.5	0.0	1.5
Hilf Density Ratio (%)	**98.0**	**95.5**	**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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **CTG0144-12**
Issue Number: 1
Date Issued: 18/09/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 829
Date Sampled: 16/09/2025
Dates Tested: 16/09/2025 - 18/09/2025
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

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47A Assembly Drive Tullamarine VIC 3043
Phone: 0410 530 191
Email: Tim@ctgeotech.com.au

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NATA
WORLD RECOGNISED ACCREDITATION

Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

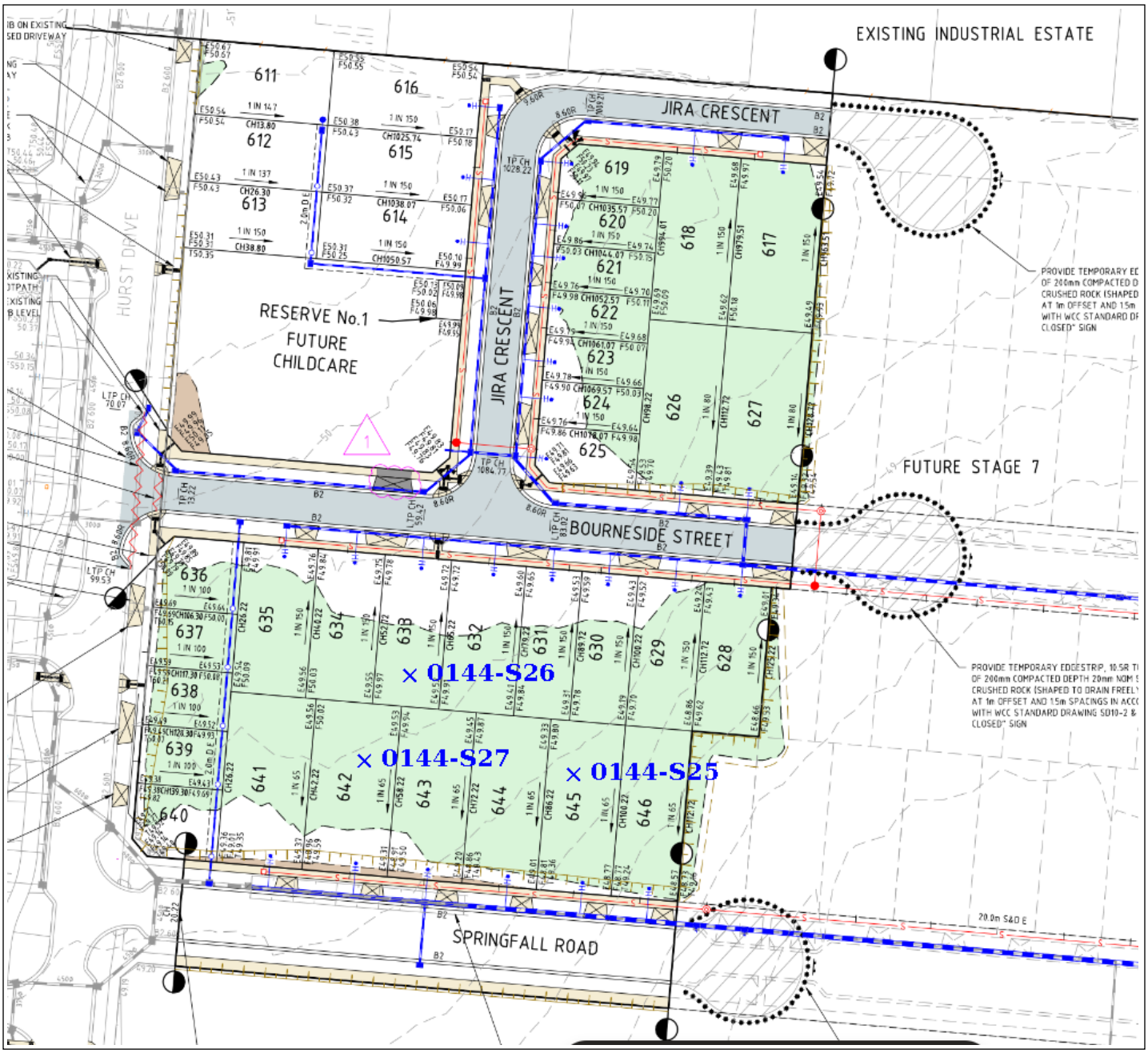
Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S25	0144-S26	0144-S27
Date Tested	16/09/2025	16/09/2025	16/09/2025
Time Tested	11:20	11:45	11:56
Test Request #/Location	Lot 645	Lot 638	Lot 642
Easting	297906	297965	297733
Northing	5812672	5812632	5812612
Layer / Reduced Level	1	2	2
Thickness of Layer (mm)	200	200	200
Soil Description	silty CLAY, med plasticity, brown, trace gravel	silty CLAY, med plasticity, brown, trace gravel	silty CLAY, med plasticity, brown, trace gravel
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	11	5	15
Field Wet Density (FWD) t/m^3	2.03	2.01	2.06
Field Moisture Content %	13.8	13.4	14.1
Field Dry Density (FDD) t/m^3	1.79	1.77	1.80
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	2.04	2.05	2.07
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	1.5	2.0	2.5
Hilf Density Ratio (%)	**99.5**	**98.0**	**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

Sample Locations Plan

x - approximate test location

GEOTECHNICAL



Material Test Report

Report Number: **CTG0144-13**
Issue Number: 1
Date Issued: 30/10/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1149
Date Sampled: 27/10/2025 08:00
Dates Tested: 27/10/2025 - 30/10/2025
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: gravelly CLAY, med-high plasticity, brown
Material Source: On site stockpiles

GEOTECHNICAL
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Phone: 0410 530 191
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NATA
WORLD RECOGNISED ACCREDITATION

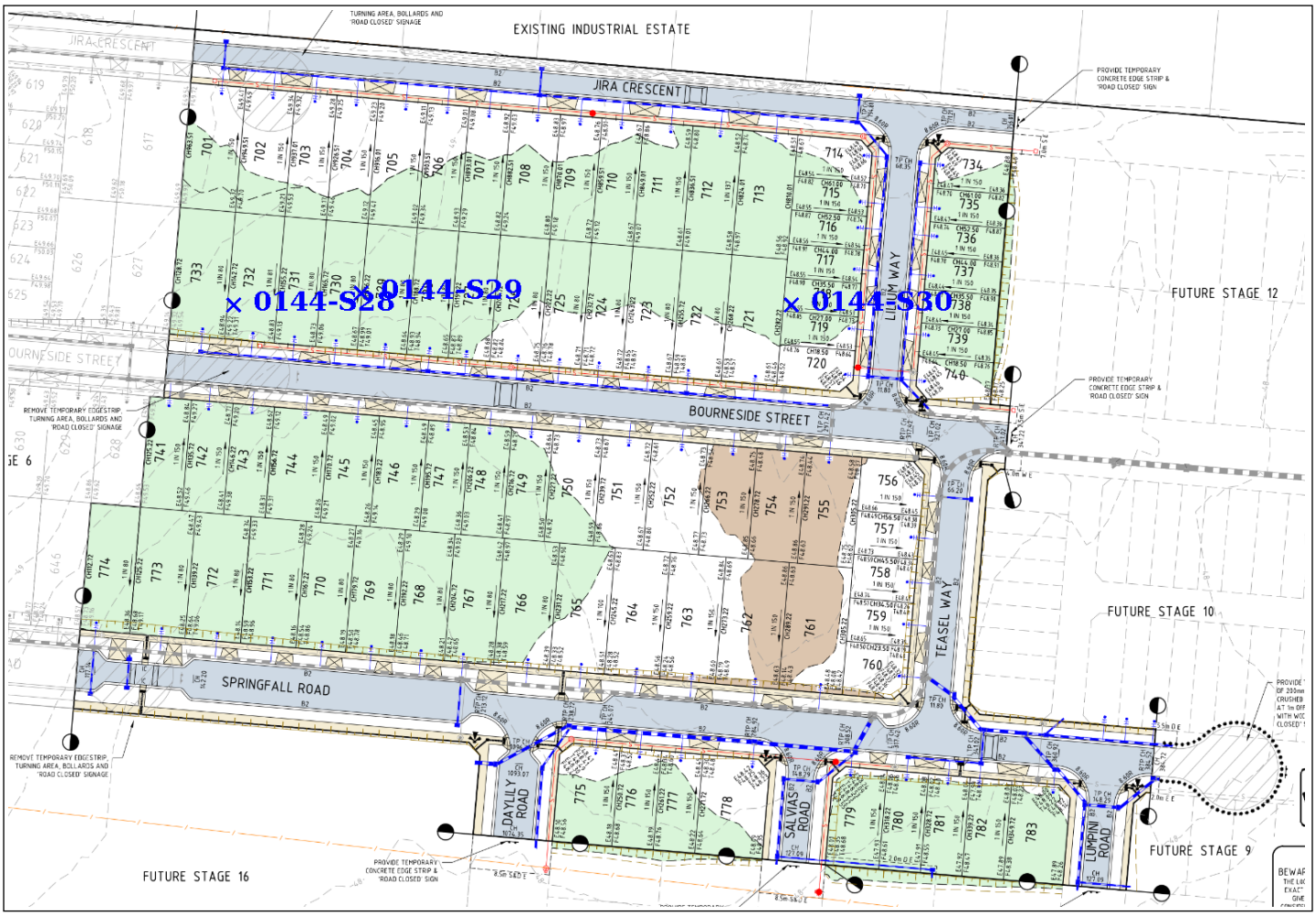
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S28	0144-S29	0144-S30
Date Tested	28/10/2025	28/10/2025	28/10/2025
Time Tested	11:11	11:19	11:24
Test Request #/Location	Lot 733/732	Lot 730/729	Lot 721/718
Easting	297934	297959	297977
Northing	5812661	5812660	5812655
Layer / Reduced Level	1	1	1
Thickness of Layer (mm)	200	200	200
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	3	8	3
Field Wet Density (FWD) t/m^3	2.01	2.06	1.93
Field Moisture Content %	21.7	23.1	21.8
Field Dry Density (FDD) t/m^3	1.65	1.67	1.58
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	1.97	2.00	2.00
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.0	0.0	0.0
Hilf Density Ratio (%)	**102.0**	**103.0**	**96.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **CTG0144-14**
Issue Number: 1
Date Issued: 03/11/2025
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1177
Date Sampled: 29/10/2025 7:00
Dates Tested: 29/10/2025 - 31/10/2025
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: Harlow stage 7
Material: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite and Import

GEOTECHNICAL
C & T Geotechnical (Melbourne) Pty Ltd
47A Assembly Drive Tullamarine VIC 3043
Phone: 0410 530 191
Email: Tim@ctgeotech.com.au

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NATA
WORLD RECOGNISED ACCREDITATION

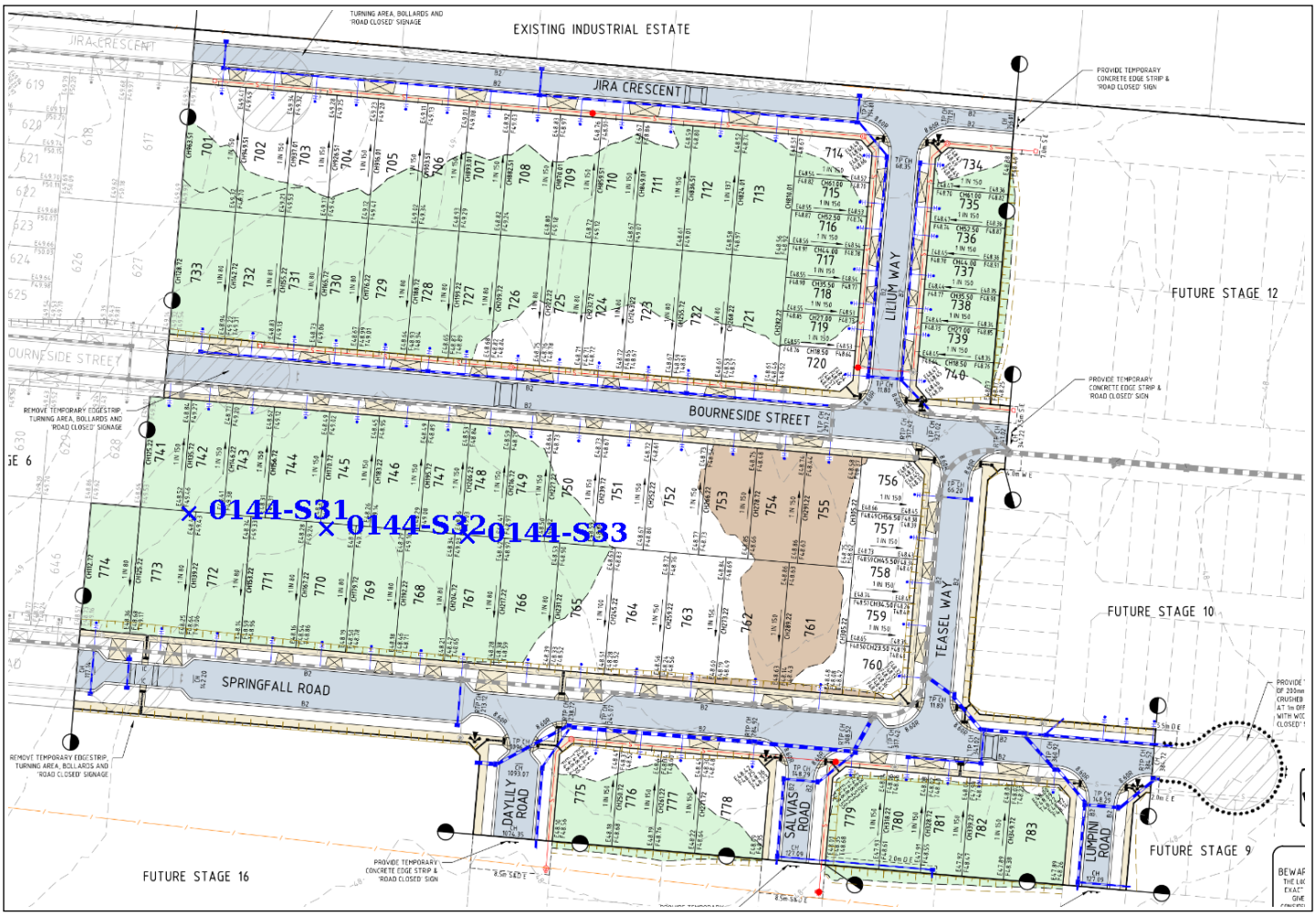
Approved Signatory: Tim Senserrick
Managing Director
NATA Accredited Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S31	0144-S32	0144-S33
Date Tested	29/10/2025	29/10/2025	29/10/2025
Time Tested	11:50	12:03	12:14
Test Request #/Location	Lot 773/742	Lot 744/770	lot 768/748
Easting	297994	297956	297974
Northing	5812663	5812661	5812663
Layer / Reduced Level	2	2	2
Thickness of Layer (mm)	200	200	200
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	12	2	2
Field Wet Density (FWD) t/m^3	1.94	2.03	1.95
Field Moisture Content %	19.4	17.5	14.8
Field Dry Density (FDD) t/m^3	1.63	1.73	1.69
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	2.00	1.97	1.96
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	2.0	2.0	2.5
Hilf Density Ratio (%)	**97.5**	**103.5**	**99.5**
Compaction Method	**Standard**	**Standard**	**Standard**
Remarks	**	**	**

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

Sample Locations Plan

x - approximate test location



Material Test Report

Report Number: **CTG0144-15A**
Issue Number: 1
Date Issued: 16/01/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1190
Date Sampled: 30/10/2025 7:00
Dates Tested: 30/10/2025 - 03/11/2025
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: Harlow stage 7
Material: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite stockpiles

GEOTECHNICAL
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NATA WORLD RECOGNISED ACCREDITATION

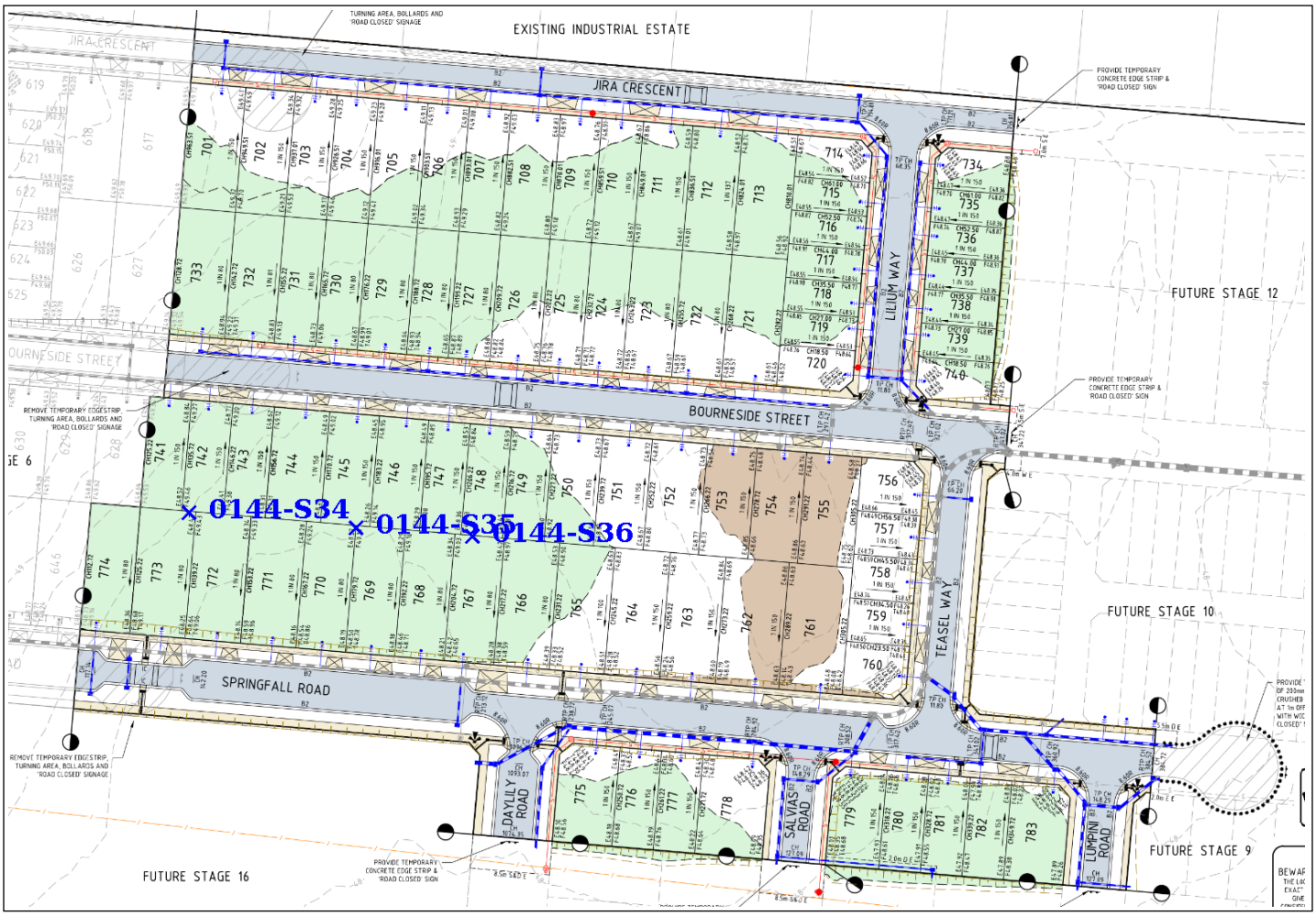
Approved Signatory: Tim Senserrick
Managing Director
Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S34	0144-S35	0144-S36
Date Tested	30/10/2025	30/10/2025	30/10/2025
Time Tested	13:05	13:10	13:15
Test Request #/Location	Lot 773/742	Lot 744/770	Lot 768/748
Easting	297915	297965	297990
Northing	5812670	5812665	5812662
Layer / Reduced Level	3	3	3
Thickness of Layer (mm)	200	200	200
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	4	4	10
Field Wet Density (FWD) t/m^3	1.94	2.05	2.10
Field Moisture Content %	17.5	19.6	20.7
Field Dry Density (FDD) t/m^3	1.65	1.71	1.74
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	1.89	1.97	1.91
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	1.5	2.5	2.5
Hilf Density Ratio (%)	**102.5**	**104.0**	**109.5**
Compaction Method	**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: **CTG0144-16A**
Issue Number: 1
Date Issued: 16/01/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1210
Date Sampled: 06/11/2025
Dates Tested: 06/11/2025 - 12/11/2025
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: Harlow
Material: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite

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NATA WORLD RECOGNISED ACCREDITATION

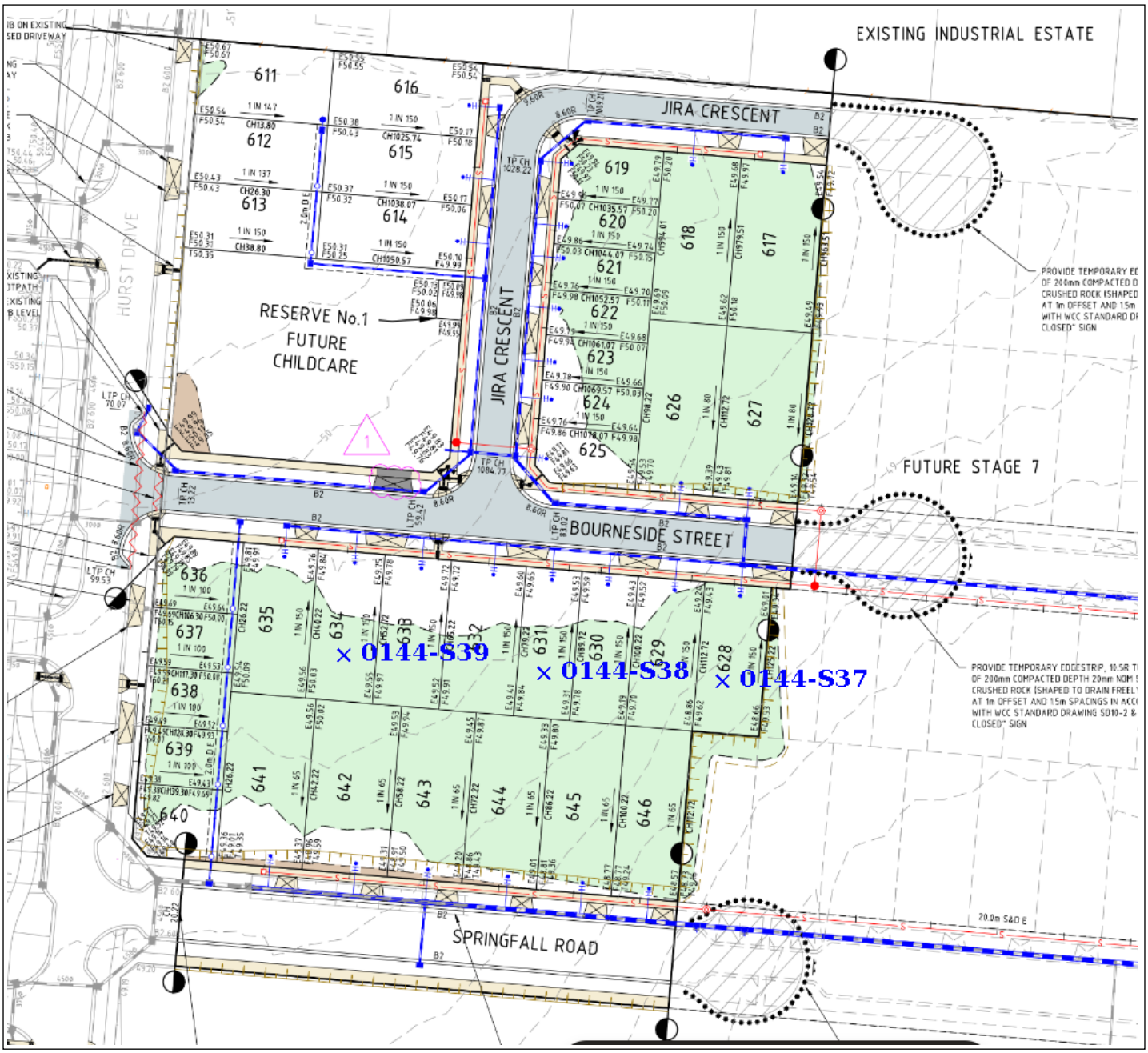
Approved Signatory: Tim Senserrick
Managing Director
Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S37	0144-S38	0144-S39
Date Tested	06/11/2025	06/11/2025	06/11/2025
Time Tested	15:08	15:15	15:30
Test Request #/Location	Lot 628	Lot 631	Lot 634
Easting	297852	297871	297892
Northing	5812701	5812690	5812685
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	200	200	200
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown
Test Depth (mm)	175	175	175
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	12	5	5
Field Wet Density (FWD) t/m^3	2.06	2.06	2.04
Field Moisture Content %	17.5	16.6	19.8
Field Dry Density (FDD) t/m^3	1.75	1.77	1.71
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	2.01	1.94	1.96
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	1.5	3.0	2.5
Hilf Density Ratio (%)	**102.0**	**106.5**	**104.5**
Compaction Method	**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: **CTG0144-17**
Issue Number: 1
Date Issued: 13/02/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1741
Date Sampled: 05/02/2026 7:30
Dates Tested: 05/02/2026 - 13/02/2026
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: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite Stockpile

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NATA WORLD RECOGNISED ACCREDITATION

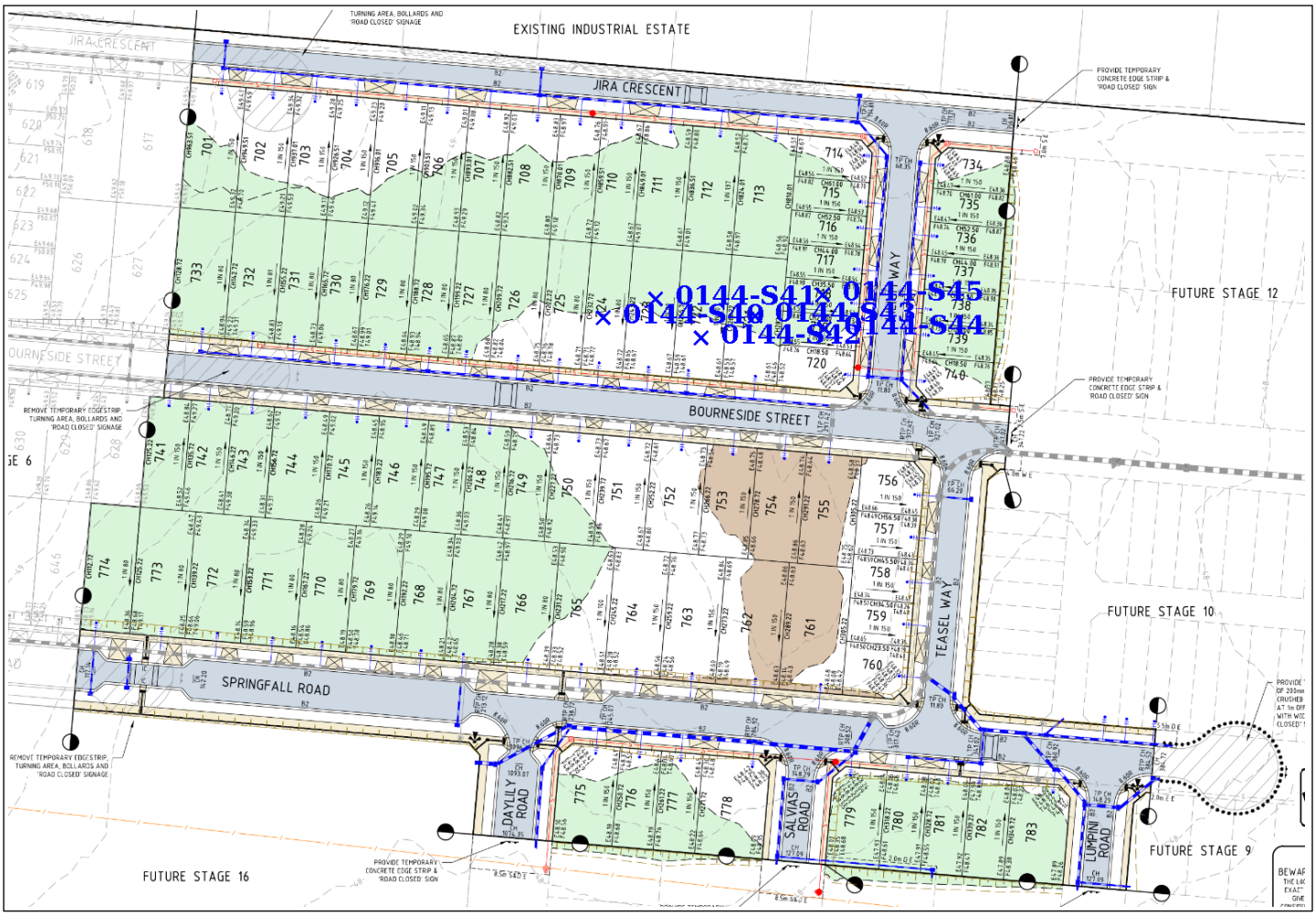
Approved Signatory: Tim Senserrick
Managing Director
Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1						
Sample Number	0144-S40	0144-S41	0144-S42	0144-S43	0144-S44	0144-S45
Date Tested	05/02/2026	05/02/2026	05/02/2026	05/02/2026	05/02/2026	05/02/2026
Time Tested	12:45	12:53	13:06	13:11	13:20	13:27
Test Request #/Location	Lot 724	Lot 723	Lot 722	Lot 721	Lot 719	Lot 718
Easting	298039	298045	298066	298074	298084	298084
Northing	5812741	5812740	5812740	5812737	5812735	5812735
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300	300
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	gravelly CLAY, med-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 (%)	4	2	2	5	3	2
Field Wet Density (FWD) t/m^3	2.02	2.00	2.03	2.06	2.05	2.06
Field Moisture Content %	18.8	19.2	18.0	17.3	17.9	21.2
Field Dry Density (FDD) t/m^3	1.70	1.68	1.72	1.76	1.74	1.70
Peak Converted Wet Density t/m^3	**	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m^3	2.00	2.01	2.03	2.03	2.03	2.01
Moisture Variation (Wv) %	**	**	**	**	**	**
Adjusted Moisture Variation %	1.5	1.0	2.0	1.5	2.5	0.0
Hilf Density Ratio (%)	**101.0**	**99.5**	**99.5**	**102.0**	**101.0**	**102.5**
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: **CTG0144-18**
Issue Number: 1
Date Issued: 13/02/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1770
Date Sampled: 09/02/2026
Dates Tested: 09/02/2026 - 13/02/2026
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: Tarniet
Material: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite stockpile

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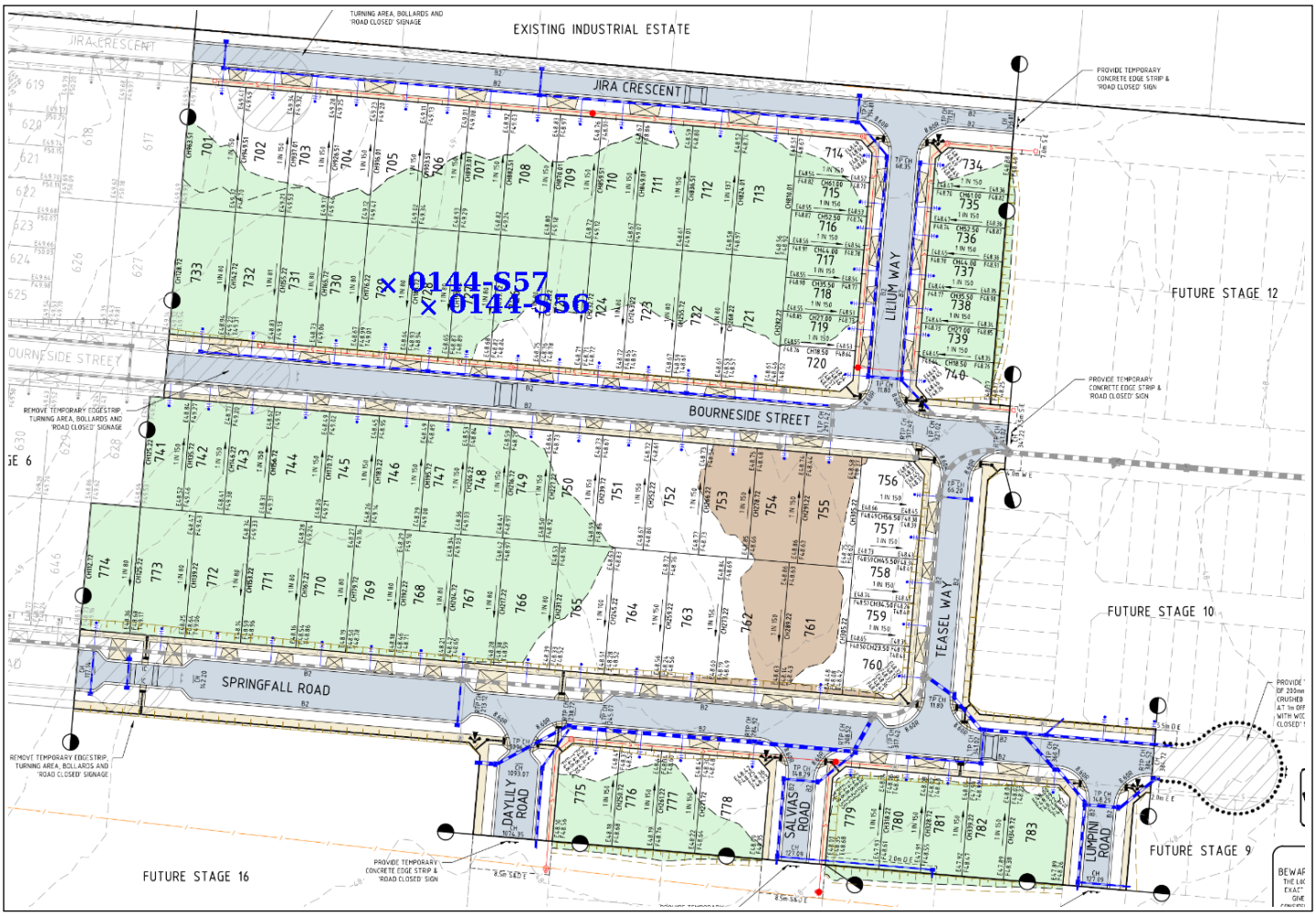
Approved Signatory: Tim Senserrick
Managing Director
Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S56	0144-S57	
Date Tested	09/02/2026	09/02/2026	
Time Tested	12:43	12:55	
Test Request #/Location	Lot 728	Lot 729	
Easting	298001	297992	
Northing	5812737	5812734	
Layer / Reduced Level	FSL	FSL	
Thickness of Layer (mm)	300	300	
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	10	9	
Field Wet Density (FWD) t/m^3	1.87	1.87	
Field Moisture Content %	17.9	18.9	
Field Dry Density (FDD) t/m^3	1.59	1.57	
Peak Converted Wet Density t/m^3	**	**	
Adjusted Peak Converted Wet Density t/m^3	1.97	1.97	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	2.0	2.0	
Hilf Density Ratio (%)	**95.0**	**95.0**	
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

Report Number: **CTG0144-19**
Issue Number: 1
Date Issued: 16/02/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1742
Date Sampled: 06/02/2026
Dates Tested: 06/02/2026 - 16/02/2026
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: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite stockpile

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Accredited for compliance with ISO/IEC 17025 - Testing

NATA WORLD RECOGNISED ACCREDITATION

Approved Signatory: Tim Senserrick
Managing Director
Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	0144-S46	0144-S47	0144-S48	0144-S49	0144-S50
Date Tested	06/02/2026	06/02/2026	06/02/2026	06/02/2026	06/02/2026
Time Tested	10:43	10:50	12:57	13:08	13:13
Test Request #/Location	Lot 717	Lot 716	Lot 715	Lot 713	Lot 712
Easting	298084	298084	298079	298086	298086
Northing	5812730	5812748	5812759	5812768	5812779
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300
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)	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 (%)	4	2	2	5	0
Field Wet Density (FWD) t/m^3	2.03	2.06	2.03	2.07	2.06
Field Moisture Content %	29.2	26.0	27.3	26.8	26.8
Field Dry Density (FDD) t/m^3	1.57	1.63	1.59	1.63	1.63
Peak Converted Wet Density t/m^3	**	**	**	**	1.90
Adjusted Peak Converted Wet Density t/m^3	1.90	1.90	1.91	1.93	**
Moisture Variation (Wv) %	**	**	**	**	0.0
Adjusted Moisture Variation %	-1.0	0.0	0.0	-0.5	**
Hilf Density Ratio (%)	**106.5**	**108.5**	**106.5**	**107.0**	**109.0**
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: **CTG0144-19**
Issue Number: 1
Date Issued: 16/02/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1742
Date Sampled: 06/02/2026
Dates Tested: 06/02/2026 - 16/02/2026
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: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite stockpile

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Email: Tim@ctgeotech.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

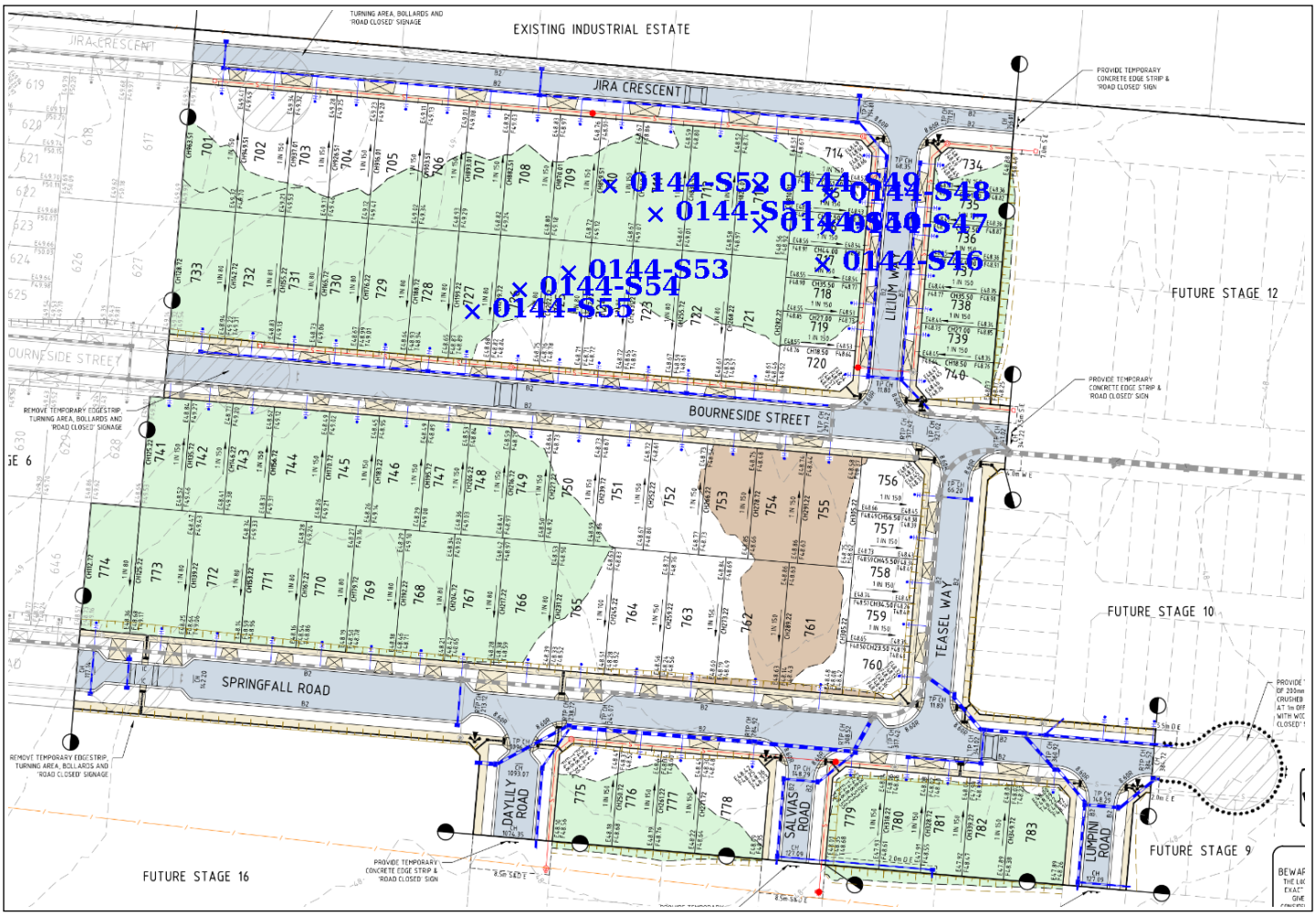
Approved Signatory: Tim Senserrick
Managing Director
Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	0144-S51	0144-S52	0144-S53	0144-S54	0144-S55
Date Tested	06/02/2026	06/02/2026	06/02/2026	06/02/2026	06/02/2026
Time Tested	13:19	13:25	13:32	13:39	13:43
Test Request #/Location	Lot 711	Lot 710	Lot 725	Lot 726	Lot 727
Easting	298085	298088	298049	298057	298066
Northing	5812753	5812768	5812734	5812735	5812734
Layer / Reduced Level	FSL	FSL	FSL	FSL	FSL
Thickness of Layer (mm)	300	300	300	300	300
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)	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 (%)	3	6	2	5	8
Field Wet Density (FWD) t/m^3	2.08	2.06	2.09	2.05	2.16
Field Moisture Content %	24.2	23.1	26.0	21.7	22.8
Field Dry Density (FDD) t/m^3	1.68	1.68	1.66	1.69	1.76
Peak Converted Wet Density t/m^3	**	**	**	**	**
Adjusted Peak Converted Wet Density t/m^3	1.95	1.94	2.00	1.93	2.05
Moisture Variation (Wv) %	**	**	**	**	**
Adjusted Moisture Variation %	0.0	0.5	0.0	2.5	2.0
Hilf Density Ratio (%)	**107.0**	**106.5**	**104.5**	**106.5**	**105.5**
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: **CTG0144-20**
Issue Number: 1
Date Issued: 17/02/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1778
Date Sampled: 10/02/2026
Dates Tested: 10/02/2026 - 16/02/2026
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: Tarniet
Material: gravelly CLAY, med-high plasticity, brown
Material Source: Stockpiles on site

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

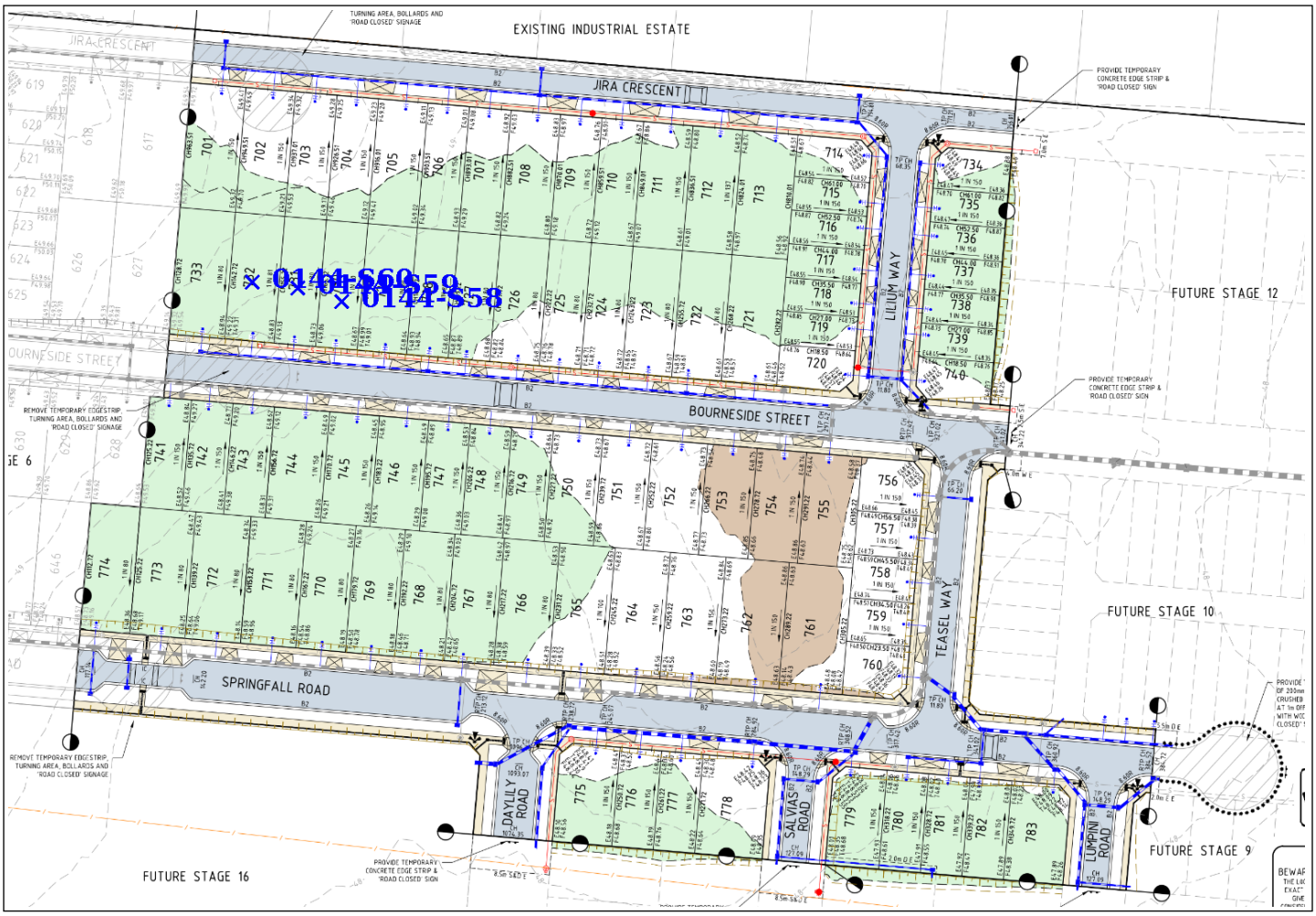
Approved Signatory: Tim Senserrick
Managing Director
Laboratory Number: 21552

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	0144-S58	0144-S59	0144-S60
Date Tested	10/02/2026	10/02/2026	10/02/2026
Time Tested	11:57	12:10	12:16
Test Request #/Location	Lot 730	Lot 731	Lot 732
Easting	298056	298065	298076
Northing	5812757	5812767	5812777
Layer / Reduced Level	FSL	FSL	FSL
Thickness of Layer (mm)	150	150	150
Soil Description	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown	gravelly CLAY, med-high plasticity, brown
Test Depth (mm)	125	125	125
Sieve used to determine oversize (mm)	19.0	19.0	19.0
Percentage of Wet Oversize (%)	11	9	16
Field Wet Density (FWD) t/m^3	1.77	1.93	1.89
Field Moisture Content %	21.4	24.3	26.5
Field Dry Density (FDD) t/m^3	1.46	1.55	1.49
Peak Converted Wet Density t/m^3	**	**	**
Adjusted Peak Converted Wet Density t/m^3	2.00	2.00	1.98
Moisture Variation (Wv) %	**	**	**
Adjusted Moisture Variation %	1.5	-0.5	-0.5
Hilf Density Ratio (%)	**88.5**	**96.5**	**95.5**
Compaction Method	**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: **CTG0144-21**
Issue Number: 1
Date Issued: 26/02/2026
Client: WINSLOW CONSTRUCTORS (CAMPBELLFIELD, VIC)
50 Barry Road, Campbellfield Victoria 3061
Project Number: CTG0144
Project Name: HARLOW ESTATE - STAGE 6 & 7 (LEVEL 1)
Project Location: TARNEIT
Work Request: 1839
Date Sampled: 19/02/2026 12:00
Dates Tested: 19/02/2026 - 25/02/2026
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Specification: 95% Standard Compaction & 0% - +3% Moisture Variation
Site Selection: Selected by Client
Material: gravelly CLAY, med-high plasticity, brown
Material Source: Onsite fill

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	0144-S61		
Date Tested	19/02/2026		
Time Tested	12:02		
Test Request #/Location	Lot 730(retest)		
Easting	298056		
Northing	5812757		
Layer / Reduced Level	FSL		
Thickness of Layer (mm)	150		
Soil Description	gravelly 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	1.94		
Field Moisture Content %	14.6		
Field Dry Density (FDD) t/m^3	1.69		
Peak Converted Wet Density t/m^3	1.90		
Adjusted Peak Converted Wet Density t/m^3	**		
Moisture Variation (Wv) %	3.0		
Adjusted Moisture Variation %	**		
Hilf Density Ratio (%)	**102.0**		
Compaction Method	**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