

> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Level One Report AS3798

Client: CCA Winslow

Project: Riverbank Estate Stage 2A

Address: Suter Drive, Caboolture South, Qld 4510

Job No. J22/16 **Docket No.** 43555



Version	Date	Author	Initials	Reviewer	Initials
1	01/08/2022	Jacob Jones	J. Jones	Dean Wagner	D. Wagner

Form No: W169 - Version 4 (14/05/2021)











> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

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> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

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1.0 Introduction

Wagner Soil Testing has recently completed a Level One Overview of Earthworks, in accordance with the requirements of **AS3798** – **"Guidelines on Earthworks for Commercial and Residential Developments"** for Riverbank Estate Stage 2A.

Controlled fill (as defined in AS 2870) was placed by CCA Winslow. Stripping instructions, proof rolling, and compaction control testing was carried out by Wagner Soil Testing (on a fulltime basis) during all earthwork's operations. Our onsite supervision component excludes assessments of fill quality and engineering properties that are outside the requirements of AS3798 – 2007, including CBR values and soil reactivity.

2.0 Site Description

The site is located at Suter Drive, Caboolture South, Qld 4510. The general location of the site is shown in the attached site plans (Appendix 1). The site is bound by existing & proposed residential developments.

3.0 Foundation Preparation

3.1 Site Stripping

Vegetation, topsoil, and organic rich materials were stripped and stockpiled onsite prior to the commencement of filling operations. As a safety factor several test pits were excavated in the proposed fill area to assess subsurface conditions, any significant issues were noted & remediated during this phase.

3.2 Proof Rolling

All stripped areas were proof rolled prior to any fill placement. Any compressible areas with apparent movement were excavated to a firm base before any fill being placed.

4.0 Controlled Filling

Fill materials (onsite) were compacted using a medium sized pad foot roller in layers not exceeding 0.3m loose. The natural ground in the areas of filling generally comprised of silty sandy clays (CI). The fill material used was generally as above. Moisture contents of all fill placed was monitored by Wagner Soil Testing. Total volumes of fill reached 19,750m³.



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5.0 Compaction Control Testing

Compaction Control Testing was carried out by Wagner Soil Testing. Testing was carried out in accordance with the requirements of **AS3798 Table 5.1 (Minimum Relative Compaction)** and **Table 8.1 (Frequency of Field Density Tests).** During the works, sixty-one (61) Field Dry Densities were carried out on fill materials together with Dynamic Cone Penetrometers (DCP's) over the filled zones periodically & at the completion of earthworks operations to help quantify bearing capacities.

6.0 Field Density Results

All Nuclear Field Densities carried out on the fill indicated Density Ratios greater than the specified requirement of 95% (standard compaction) & AS3798 Table 5.1.

7.0 Report on Filling Operations

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of Level 1 Certification as per AS3798 – "Guidelines on Earthworks for Commercial and Residential Developments".

8.0 Notes

Certified / Controlled (Level 1) Fill is only an assurance of its density. There are sites where long-term consolidations of fill can occur, unrelated to its actual density. Sites where fill has been placed over inferior material and sites where the depth of controlled fill varies dramatically over short distances are sites where differential consolidations must be considered. Although all Field Densities carried out reached density ratios greater than 95% as required, some material still may have bearing ratios below 100kPa as per AS2870 – Residential Slabs & Footings depending on material composition, and unfavourable site classifications and low subgrade design strengths still may be encountered.

All compacted fill is subject to secondary (creep) settlement, which is relational to the depth of the fill. Estimated secondary settlement may be of the order of 1% to 2% of the total fill height over 15 years. There is a possibility that additional fill has been placed after the date of the last field density test or at times when Wagner Soil Testing has not been notified that filling operations are in progress. The installation of services may cause disruption of the compacted fill.

Unless otherwise stated, Level 1 Certification does not address trench backfill operations, batter slope stability, retaining wall construction, global stability analysis, acid sulfate testing and or management. The "supervision" component of this Level 1 Report is not NATA endorsed. Wagner Soil Testing must be contacted if any site levels are modified whatsoever. It is the client's responsibility to maintain site drainage after the issue of this report.

A full geotechnical site investigation / classification and foundation design for the specific ground conditions should be carried out by suitably qualified or experienced personnel prior to building. This service can be provided, if required, by contacting Wagner Soil Testing.



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Constraints:

This report was produced for the sole use of CCA Winslow. This report should not be used by or depended upon for other projects or purposes on the same or other projects or by a third party. In the preparation of this report Wagner Soil Testing has relied upon information provided by the client and or their agents.

The results provided in this report are indicative of the subsurface conditions on the site only at the specific sampling or testing locations, and then only to the depths investigated along with the time the work was carried out. It is known that subsurface conditions can suddenly change due to irregular geological processes and as a result of human influences. Such changes may occur after Wagner Soil Testing's field testing has been completed.

Certain ground conditions and the materials behaviour observed or contained at the test locations may alter from those which may be encountered elsewhere on the site. Should variations in subsurface conditions be encountered, then additional advice should be sought from Wagner Soil Testing and if required, amendments made.

Wagner Soil Testing cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome, or conclusion given in this report.

To establish a geotechnical model as per AS1726-2017-5.2 we require extra testing. No differential settlement estimates have been calculated for this site.

For further technical support regarding this Geotechnical Report please contact Mr. Dean Wagner of Wagner Soil Testing.





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Appendix 1 – General Layout Plan

RIVERBANK ESTATE

STAGE 2A FOR PEET CABOOLTURE SYNDICATE LTD





MORETON BAY REGIONAL COUNCIL

LOT INFORMATION

AREA OF SITE: 1.256 ha

EXISTING LOT LOT 1024 SP317233 PROPOSED NO. OF LOTS: 18

COVER SHEET LOCALITY PLAN, AND DRAWING INDEX **BULK EARTHWORKS** BULK EARTHWORKS LAYOUT PLAN BULK EARTHWORKS SECTIONS AND DETAILS COMPENSATORY EARTHWORKS LAYOUT PLAN ROADWORKS CONTROL LINE LAYOUT PLAN

ROADWORKS LAYOUT PLAN INTERSECTION DETAILS LAYOUT PLAN SUTER DRIVE LONGITUDINAL AND CROSS SECTIONS WATERSIDE ESPLANADE LONGITUDINAL AND CROSS SECTIONS

305 SIGNS AND LINEMARKING LAYOUT PLAN PAVEMENT LAYOUT PLAN

306

400 STORMWATER DRAINAGE LAYOUT PLAN STORMWATER DRAINAGE CATCHMENT PLAN STORMWATER DRAINAGE LONGITUDINAL SECTIONS 403 STORMWATER DRAINAGE CALCULATIONS TABLES STORMWATER DRAINAGE NOTES AND DETAILS STORMWATER DRAINAGE MANHOLE DETAILS

SEWER RETICULATION NOTES AND DETAILS SEWER RETICULATION LAYOUT PLAN SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 1 OF 2 SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 2 OF 2

WATER RETICULATION

WATER RETICULATION COVER SHEET WATER RETICULATION LAYOUT PLAN

LOCALITY PLAN

CONSTRUCTION NOTE

THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:

GEOTECHNICAL REPORT (PREPARED BY SOIL SURVEYS) LANDSCAPE DRAWINGS (PREPARED BY SAUNDERS HAVILL GROUP) CONSTRUCTION HOLD POINT

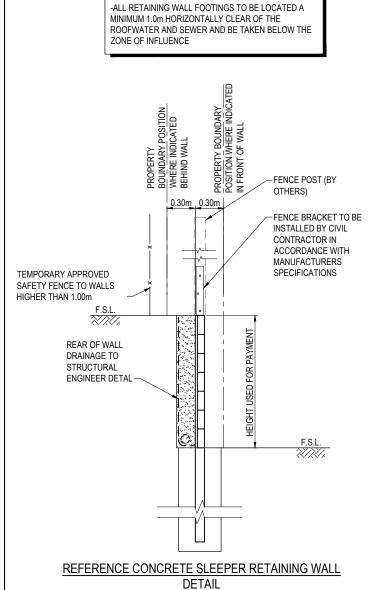
ONCE THE BASE OF MANHOLES, INSPECTION PITS, GULLIES AND FIELD INLETS FOR STORMWATER DRAINAGE AND SEWER RETICULATION HAVE BEEN POURED, FURTHER CONSTRUCTION SHALL NOT PROCEED UNTIL THE SUPERINTENDENT AND OR ENGINEER HAVE INSPECTED THE WORKS FOR FINISHED LEVELS AND APPROVED CONSTRUCTION TO CONTINUE.

CONSTRUCTION HOLD POINT PRIOR TO CONSTRUCTION THE CONTRACTOR CROSSINGS AND CONNECTION POINTS.

RIVERBANK ESTATE

STAGE 2A M.B.R.C. REF No. DA/2021/0413 21-000078.1 FOR 30.03.21

APPROVAL



MINIMUM DESIGN REQUIREMENTS

LOADING TO BE DETERMINED BY STRUCTURAL

- POST AND FOOTING DESIGN TO ALLOW

FOR 1.8m HIGH FENCE BY OTHERS - MAX 1V:4H SLOPE BEHIND WALL

FNGINFFR

- SURCHARGE LOADING TO SUIT RESIDENTIAL HOUSES

SCALE 1: 20 (A1)

- 1. CONCRETE SLEEPER RETAINING WALLS ARE A CIVIL CONTRACTOR DESIGN AND CONSTRUCT
- 2. THE CIVIL CONTRACTOR SHALL ENGAGE A STRUCTURAL RPEQ TO DESIGN THE RETAINING
- 3. PRIOR TO CONSTRUCTION THE PRINCIPAL CONTRACTOR SHALL PROVIDE THE STRUCTURAL RPEQ DESIGN AND FORM 15.
- 4. PRIOR TO PRACTICAL COMPLETION BEING AWARDED THE CIVIL CONTRACTOR SHALL PROVIDE A FORM 16 FOR THE CONSTRUCTED RETAINING WALLS CERTIFIED BY THE STRUCTURAL RPEQ, AND COPIES OF ALL STRUCTURAL RPEQ INSPECTION REPORTS

BULK EARTHWORKS NOTES

NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE CROSS SECTIONS, THE ACTUAL LIMITS SHALL BE DETERMINED ON-SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.

412

413

414

12

11

411

72

73

74

SUTER DRIVE

435

416

- SUBGRADE TEST RESULTS TO BE FORWARDED TO THE SUPERINTENDENT FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION. TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT
- CONTRACTOR TO LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES TO ASCERTAIN SERVICES PRESENT ON-SITE. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT BY THAT SERVICE AUTHORITY ONLY.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCING THE DEMOLITION OF ANY EXISTING STRUCTURES WITHIN THE
- ALL DRAINAGE STRUCTURES TO BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE FARTHWORKS
- ALL EXCAVATION AND FILLING SHALL BE COMPACTED TO THE REQUIREMENTS OF AS3798-2007 IN ACCORDANCE WITH THE LOCAL AUTHORITY REQUIREMENTS. LEVEL 1 SUPERVISION IS REQUIRED.
- ALL CLEARING SHALL BE CARRIED OUT IN STAGES TO ALLOW FOR RELOCATION OF FAUNA, COMMENCING AT THE LOWER AREAS OF THE SITE.
- SETBACK TO FRONT OF PADS ARE 3.00m UNLESS OTHERWISE NOTIFIED. CONTRACTOR TO USE INDUSTRY BEST PRACTICE TO ENSURE ADEQUATE
- DUST CONTROL DURING EARTHWORKS OPERATIONS. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH

AND SAFETY REQUIREMENTS.

EARTHWORKS QUANTITIES:

418

419

420

CUT VOLUME: 384 m³ FILL VOLUME: 23945 m BAL: 23561 m³ IMPORT

417

421

INTERIM 1 IN 3 BATTER TO EXISTING SURFACE

801

439

438

DESIGN LEVELS AND CONTOURS ARE TO FINISHED LEVEL ROAD CARRIAGEWAY ARE TO BE FILLED TO PAVEMENT SUBGRADE ONLY.

422

CAUTION !! **UNDERGROUND**

TELECOMMS CABLES NDERGROUND TELECOMMUNICATIO

CABLES EXIST IN THIS VICINITY CONTACT SUPPLIER FOR CARLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING

CAUTION !! OVERHEAD

429

423

ELECTRICAL CABLES EXIST IN THIS VICINITY. CONTACT ENERGEX WHERE CARLE CLEARANCE IS COMPROMISED BY

NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THE JOB DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ANY UNDERGROUND SERVICES IN THIS AREA AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO.

LEGEND

445

RL.824

425

424

PROPOSED CONCRETE SLEEPER RETAINING WALL REFER TYPICAL DETAIL PROPOSED RETAINING WALL HEIGHT EXISTING SURFACE CONTOUR (0.1m INTERVALS) BULK EARTHWORKS SURFACE CONTOUR (0.1m INTERVALS) AREA OF EARTHWORKS FILL AREA OF CUT •RL8.60 FINISHED SURFACE SPOT LEVEL BOTTOM OF RETAINING WALL LEVEL (FINAL SURFACE) ●BW8.60 EX8.60 **EXISTING SURFACE LEVEL** INDICATIVE DRIVEWAY LOCATION MANDATORY ZERO LOT LINE NOMINAL ZERO LOT LINE PROPOSED EARTHWORKS BATTER

M.B.R.C. REF No. DA/2021/0413

EARTHWORKS SETOUT POINTS

Easting

6041.355

6023.821

6040.429

Point No

WATERSIDE ESPLANADE

INTERIM 1 IN 4 BATTER TO EXISTING SURFACE

EXISTING

BIO-RETENTION

BASIN

Northing

3348 507

3381.645

3400.545

EVISION DATE ISSUE DETAILS DRAWN DESIGN **BULK EARTHWORKS ISSUED FOR RIVERBANK ESTATE** LAYOUT PLAN **APPROVAL** AR **STAGE 2A** ESLIE ROCHE RPEQ 14843 CABOOLTURE LL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO ONSTRUCTION, USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. 21-000078.1 SYNDICATE LTD 200 CHC calibregroup.com



> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Appendix 2 – Field Density Reports





Phone: 07 5496 6715 Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	1587 Ipswich Road, Rocklea Qld 4106			10-Feb-22
Project:	Riverbank Estate Stag	Riverbank Estate Stage 2A			JL
Location:	Caboolture South, Qld	Caboolture South, Qld			DW / JJ
Report Number:	8	Page	1 of 4	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))	
Lab Number	W22/1561	W22/1562	W22/1563	
Test Location	Lot 427	Lot 428	Lot 429	
	Centre	Centre	Centre	
	3rd Lift	3rd Lift	3rd Lift	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	10-Feb-22	10-Feb-22	10-Feb-22	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m ³)	1.96	1.97	1.94	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.01	2.04	2.00	
Peak Added Moisture (%)	+0.6	+1.4	+3.0	
Moisture Correction (%)	+0.7	+1.6	+3.4	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%)	97.5	97.0	97.0	
MOISTURE VARIATION (%)				
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks		Docket #42211		
	DOGREL WILL I			

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Version: 5

19-10-21

22-02-22





> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow		
Client Address:	1587 Ipswich Road, Rocklea Qld 4	1587 Ipswich Road, Rocklea Qld 4106		
Project:	Riverbank Estate Stage 2A	Riverbank Estate Stage 2A		
Location:	Caboolture South, Qld	Caboolture South, Qld		DW / JJ
Report Number:	9 Page	2 of 4	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))	
Lab Number	W22/1564	W22/1565	W22/1566	
Test Location	Lot 430	Lot 431	Lot 432	
	Centre	Centre	Centre	
	3rd Lift	3rd Lift	3rd Lift	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	10-Feb-22	10-Feb-22	10-Feb-22	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	2.00	1.97	1.96	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.06	2.01	2.00	
Peak Added Moisture (%)	+1.8	+1.5	+3.6	
Moisture Correction (%)	+2.0	+1.7	+4.0	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%) WOISTURE VARIATION (%)	97.0	98.0	98.0	
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks		Docket #42211		

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Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	1587 Ipswich Road, Rocklea Qld 4106			11-Feb-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			JL
Location:	Caboolture South, Qld	Caboolture South, Qld			JJ
Report Number:	12	Page	1 of 3	Order No:	Nathan

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Co		1.2.1 (6.4(b))	
Lab Number	W22/1718	W22/1719	W22/1720	
Test Location	Lot 428	Lot 429	Lot 430	
	Centre	Centre	Centre	
	5th Lift	5th Lift	5th Lift	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	11-Feb-22	11-Feb-22	11-Feb-22	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	1.97	1.97	1.94	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.05	2.06	2.03	
Peak Added Moisture (%)	-1.2	-2.3	-2.2	
Moisture Correction (%)	-1.5	-2.7	-2.6	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%) MOISTURE VARIATION (%)	96.0	95.5	96.0	
MOIOTORE VARIATION (70)				
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks	arks Docket #42215			
	DOUGE #422 10			

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Fax: 07 5496 6717

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REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow		
Client Address:	1587 Ipswich Road, Rocklea Qld 4	1587 Ipswich Road, Rocklea Qld 4106		
Project:	Riverbank Estate Stage 2A	Riverbank Estate Stage 2A		
Location:	Caboolture South, Qld	Caboolture South, Qld		
Report Number:	13 Page	2 of 3	Order No:	Nathan

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))	
Lab Number	W22/1721	W22/1722	W22/1723	
Test Location	Lot 431	Lot 432	Lot 433	
	Centre	Centre	Centre	
	5th Lift	5th Lift	5th Lift	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	11-Feb-22	11-Feb-22	11-Feb-22	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	1.98	1.96	1.90	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m ³)	2.06	2.06	2.00	
Peak Added Moisture (%)	-1.1	-1.3	-2.1	
Moisture Correction (%)	-1.3	-1.5	-2.6	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%)	96.0	95.5	95.0	
MOISTURE VARIATION (%)	HIP TO SECTION AND			
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks	33 /0	3070	3070	
I CIII GINS	Docket #42215			

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Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	1587 Ipswich Road, Rocklea Qld 4106			07-Apr-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			PF
Location:	Caboolture South, Qld	Caboolture South, Qld			JJ
Report Number:	14	Page	1 of 1	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Compact) AS 1289 1	.2.1 (6.4(b))	
_ab Number	W22/3679	W22/3680		
Test Location	Lot 445	Lot 443		
	Centre Line	Centre Line		
	4.2m Below FL	4.3m Below FL		
_ayer / Elevation	Allotment Fill	Allotment Fill		
Material Source	Onsite	Onsite		
Depth Tested	175	175		
Layer Thickness	200	200		
Date Tested	07-Apr-22	07-Apr-22		
Material Sampled	After Compaction	After Compaction		
Test Results				
nsitu Wet Density (t/m³)	2.02	2.06		
nsitu Moisture Content (%)	N/A	N/A		
PCWD (t/m³)	2.06	2.08		
Peak Added Moisture (%)	+1.7	+1.8		
Moisture Correction (%)	+1.9	+2.0		
Retaining Seive (mm)	19.0	19.0		
Percentage Oversize (wet)	0.0	0.0		
HILF DENSITY RATIO (%)	98.0	99.0		
MOISTURE VARIATION (%)			DEF SERVICE	
Compaction Type	Standard	Standard		
Degree of Compaction	95%	95%		
Remarks				
		Docket #41378	1	

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08-04-22





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Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER ABN: 49 416 679 791

Client:	CCA Winslow	CCA Winslow		
Client Address:	1587 Ipswich Road, Rocklea Qld	1587 Ipswich Road, Rocklea Qld 4106		
Project:	Riverbank Estate Stage 2A	Riverbank Estate Stage 2A		
Location:	Caboolture South, Qld		Checked:	JJ
Report Number:	15 Page	1 of 1	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1	
Sample Method	Earthworks Layer (Compact)	AS 1289 1.2.1 (6.4(b))
Lab Number	W22/3681	
Test Location	Sater Drive	
	Ch 350m	
	3.7m Below FL	
Layer / Elevation	Embankment Fill	
Material Source	Onsite	
Depth Tested	175	
Layer Thickness	200	
Date Tested	07-Apr-22	
Material Sampled	After Compaction	
Test Results		
Insitu Wet Density (t/m³)	2.05	
Insitu Moisture Content (%)	N/A	
PCWD (t/m³)	2.08	
Peak Added Moisture (%)	+2.3	
Moisture Correction (%)	+2.5	
Retaining Seive (mm)	19.0	
Percentage Oversize (wet)	0.0	
HILF DENSITY RATIO (%)	98.5	
MOISTURE VARIATION (%)	dies between the	
Compaction Type	Standard	
Degree of Compaction	95%	
Remarks		-1 #44070
	Dock	et #41378

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> Phone: 07 5496 6715 Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	1587 Ipswich Road, Rocklea Qld 4106			08-Apr-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			
Location:	Caboolture South, Qld			Checked:	DW
Report Number:	16	Page	1 of 1	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/5		
Sample Method	Earthworks Layer (Compact) AS 1289	1.2.1 (6.4(b))
Lab Number	W22/3918	W22/3919	W22/3920
Test Location	Lot 443	Lot 442	Lot 441
	Centre Line	Centre Line	Centre Line
	3.4m Below FL	3.4m Below FL	3.4m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	08-Apr-22	08-Apr-22	08-Apr-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	2.08	2.06	2.02
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	2.13	2.07	2.02
Peak Added Moisture (%)	+2.2	-0.1	+2.2
Moisture Correction (%)	+2.4	-0.1	+2.5
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	97.5	99.5	100.0
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #41333		

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> Phone: 07 5496 6715 Mobile: 0438 924 637

> > Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER ABN: 49 416 679 791

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	1587 Ipswich Road, Rocklea Qld 4106			11-Apr-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			PF
Location:	Caboolture South, Qld	Caboolture South, Qld			DW
Report Number:	17	Page	1 of 1	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/5	.1.1	
Sample Method	Earthworks Layer (0	Compact) AS 1289	1.2.1 (6.4(b))
Lab Number	W22/3921	W22/3922	W22/3923
Test Location	Lot 443	Lot 444	Lot 445
	Centre Line	Centre Line	Centre Line
	3.1m Below FL	3.1m Below FL	3.1m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	11-Apr-22	11-Apr-22	11-Apr-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	2.01	2.07	2.05
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	2.06	2.09	2.08
Peak Added Moisture (%)	+2.1	+0.2	+0.8
Moisture Correction (%)	+2.3	+0.2	+0.9
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%) MOISTURE VARIATION (%)	98.0	99.0	98.5
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks		Docket #44220	
	Docket #41338		

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Phone: 07 5496 6715 **Mobile:** 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	587 Ipswich Road, Rocklea Qld 4106			22-Apr-22
Project:	Riverbank Estate Stag	Riverbank Estate Stage 2A			PF
Location:	Caboolture South, Qld	Caboolture South, Qld			DW
Report Number:	18	Page	1 of 1	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/5	5.1.1	
Sample Method	Earthworks Layer (Compact) AS 1289	1.2.1 (6.4(b))
Lab Number	W22/4640	W22/4641	W22/4642
Test Location	Lot 443	Lot 444	Lot 445
	Left Centre Line	RL:6.5	RL:6.7
	RL:6.8		
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	22-Apr-22	22-Apr-22	22-Apr-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	2.06	1.97	2.11
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	2.09	2.06	2.13
Peak Added Moisture (%)	+2.9	+3.6	+2.4
Moisture Correction (%)	+3.2	+3.9	+2.6
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
r ercertage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	99.0	96.0	99.0
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks			
	Docket #42867		

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> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Roo	587 Ipswich Road, Rocklea Qld 4106			20-Apr-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			
Location:	Caboolture South, Qld			Checked:	DW
Report Number:	19	Page	1 of 1	Order No:	Nick

Earthworks Layer (Compact) AS 1289 1	2.1 (6.4(b))	
W22/5551	W22/5552	W22/5553	
Lot 444	Lot 442	Lot 443	
2.0m below FL	2.0m Below FOL	2.4m Below FL	
Allotment Fill	Allotment Fill	Allotment Fill	
		Onsite	
		175	
		200	
20-Apr-22	20-Apr-22	20-Apr-22	
After Compaction	After Compaction	After Compaction	
2.08	2.06	2.02	
N/A	N/A	N/A	
2.11	2.15	2.10	
+1.3	+0.7	+0.1	
+1.5	+0.8	+0.1	
19.0	19.0	19.0	
0.0	0.0	0.0	
98.5	96.0	96.0	
Standard	Standard	Standard	
95%	95%	95%	
Docket #42853			
	2.0m below FL Allotment Fill Onsite 175 200 20-Apr-22 After Compaction 2.08 N/A 2.11 +1.3 +1.5 19.0 0.0 98.5	2.0m below FL 2.0m Below FOL	



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> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER ABN: 49 416 679 791

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	587 Ipswich Road, Rocklea Qld 4106			20-Apr-22
Project:	Riverbank Estate Stag	Riverbank Estate Stage 2A			PF
Location:	Caboolture South, Qld	Caboolture South, Qld			DW
Report Number:	20	Page	1 of 1	Order No:	Nick

Test Methods	AS 1289 5.8.1/5.7.1/5	5.1.1	
Sample Method	Earthworks Layer (Compact) AS 1289 1	.2.1 (6.4(b))
Lab Number	W22/5554	W22/5555	
Test Location	Bute Road	Bute Road	
	Ch 310m	Ch 340m	
	2.5m Below FL	2.8m Below FL	
Layer / Elevation	Embankment Fill	Embankment Fill	
Material Source	Onsite	Onsite	
Depth Tested	175	175	
Layer Thickness	200	200	
Date Tested	20-Apr-22	20-Apr-22	
Material Sampled	After Compaction	After Compaction	
Test Results			
Insitu Wet Density (t/m³)	2.02	2.03	
Insitu Moisture Content (%)	N/A	N/A	
PCWD (t/m³)	2.11	2.10	
Peak Added Moisture (%)	+0.9	+0.8	
Moisture Correction (%)	+1.0	+0.9	
Retaining Seive (mm)	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	
r ercentage Oversize (wet)	0.0	0.0	
HILF DENSITY RATIO (%)	96.0	96.5	
MOISTURE VARIATION (%)	BOOKER THE VELL		
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks			
		Docket #42853	

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> Phone: 07 5496 6715 Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	587 Ipswich Road, Rocklea Qld 4106			22-Jun-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			JL
Location:	Caboolture South, Qld			Checked:	DW
Report Number:	35	Page	1 of 1	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/	5.1.1	
Sample Method	Earthworks Layer	(Compact) AS 1289	1.2.1 (6.4(b))
Lab Number	W22/7455	W22/7456	W22/7457
Test Location	N: 7003389	N: 7003417	N: 7003463
Park Area	E: 496144	E: 496124	E: 496094
	EL: 1.0m	EL: 6.0m	EL: 6.0m
Layer / Elevation	Pad Fill	Pad Fill	Pad Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	22-Jun-22	22-Jun-22	22-Jun-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	1.84	1.90	1.87
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	1.92	1.89	1.87
Peak Added Moisture (%)	-1.3	+0.0	+0.4
Moisture Correction (%)	-1.6	+0.0	+0.5
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
reiteillage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	96.0	100.5	100.5
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	0070	0070	1 0070
	Docket #43418		

Authorised Signatory Accreditation No: 15070 Date 07-07-22

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> Phone: 07 5496 6715 Mobile: 0438 924 637

Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	ocklea Qld	4106	Date:	23-Jun-22
Project:	Riverbank Estate Stag	Riverbank Estate Stage 2A			JL
Location:	Caboolture South, Qld			Checked:	
Report Number:	36	Page	1 of 2	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/	5.1.1	
Sample Method	Earthworks Layer	Compact) AS 1289	1.2.1 (6.4(b))
Lab Number	W22/7599	W22/7600	W22/7601
Test Location	Lot 440	Lot 441	Lot 442
Park Area	Centre	Centre	Centre
	0.5m Below FL	0.5m Below FL	0.5m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	23-Jun-22	23-Jun-22	23-Jun-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	1.94	2.02	1.99
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	2.02	2.03	2.05
Peak Added Moisture (%)	-1.4	+0.3	-0.2
Moisture Correction (%)	-1.7	+0.3	-0.2
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	96.5	99.0	97.0
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks			
		Docket #43421	

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> Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	cklea Qld 41	06	Date:	23-Jun-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			JL
Location:	Caboolture South, Qld			Checked:	DW
Report Number:	37	Page	2 of 2	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/	5.1.1	
Sample Method	Earthworks Layer		1.2.1 (6.4(b))
Lab Number	W22/7602	W22/7603	W22/7604
Test Location	Lot 437	Lot 438	Lot 439
Park Area	Centre	Centre	Centre
=	0.5m Below FL	0.5m Below FL	0.5m Below FL
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	23-Jun-22	23-Jun-22	23-Jun-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
Insitu Wet Density (t/m³)	1.95	2.00	1.97
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m³)	2.00	2.00	1.99
Peak Added Moisture (%)	+1.1	+0.0	+1.4
Moisture Correction (%)	+1.3	+0.0	+1.6
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%)	98.0	100.0	99.5
MOISTURE VARIATION (%)			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks			
		Docket #43421	

Authorised Signatory Accreditation No: 15070 Date 07-07-22

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Phone: 07 5496 6715 Mobile: 0438 924 637 Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791

Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	cklea Qld	4106	Date:	16-Jul-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			JL
Location:	Caboolture South, Qld			Checked:	JJ
Report Number:	59	Page	1 of 6	Order No:	JJ

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1				
Sample Method	Earthworks Layer (Compact) AS 1289	1.2.1 (6.4(b))		
Lab Number	W22/9326	W22/9327	W22/9328		
Test Location	Lot 427	Lot 428	Lot 429		
	Centre	Centre	Centre		
	Final Level	Final Level	Final Level		
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill		
Material Source	Onsite	Onsite	Onsite		
Depth Tested	175	175	175		
Layer Thickness	200	200	200		
Date Tested	16-Jul-22	16-Jul-22	16-Jul-22		
Material Sampled	After Compaction	After Compaction	After Compaction		
Test Results					
Insitu Wet Density (t/m³)	1.93	1.89	1.94		
Insitu Moisture Content (%)	N/A	N/A	N/A		
PCWD (t/m³)	1.96	1.94	1.97		
Peak Added Moisture (%)	+0.3	-0.1	+1.5		
Moisture Correction (%)	+0.4	-0.1	+1.7		
Retaining Seive (mm)	19.0	19.0	19.0		
Percentage Oversize (wet)	0.0	0.0	0.0		
HILF DENSITY RATIO (%)	98.0	97.5	98.5		
MOISTURE VARIATION (%)					
Compaction Type	Standard	Standard	Standard		
Degree of Compaction	95%	95%	95%		
Remarks	Docket #43953				
	Docker #43333				



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> Phone: 07 5496 6715 Mobile: 0438 924 637

> > Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791

Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow		
Client Address:	1587 Ipswich Road, Rocklea Q	ld 4106	Date:	16-Jul-22
Project:	Riverbank Estate Stage 2A		Tested by:	JL
Location:	Caboolture South, Qld		Checked:	JJ
Report Number:	60 Page	2 of 6	Order No:	JJ

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1				
Sample Method	Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))		
Lab Number	W22/9329	W22/9330	W22/9331		
Test Location	Lot 430	Lot 431	Lot 432		
	Centre	Centre	Centre		
	Final Level	Final Level	Final Level		
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill		
Material Source	Onsite	Onsite	Onsite		
Depth Tested	175	175	175		
Layer Thickness	200	200	200		
Date Tested	16-Jul-22	16-Jul-22	16-Jul-22		
Material Sampled	After Compaction	After Compaction	After Compaction		
Test Results					
Insitu Wet Density (t/m³)	1.92	2.00	1.90		
Insitu Moisture Content (%)	N/A	N/A	N/A		
PCWD (t/m³)	1.96	1.99	1.94		
Peak Added Moisture (%)	+0.9	+0.5	+2.4		
Moisture Correction (%)	+1.0	+0.6	+2.8		
Retaining Seive (mm)	19.0	19.0	19.0		
Percentage Oversize (wet)	0.0	0.0	0.0		
HILF DENSITY RATIO (%) MOISTURE VARIATION (%)	98.0	100.5	97.5		
Compaction Type	Standard	Standard	Standard		
Degree of Compaction	95%	95%	95%		
Remarks		Docket #43953			
		DOCKET #43953			

Authorised Signatory Accreditation No: 15070 Date 01-08-22

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> Phone: 07 5496 6715 Mobile: 0438 924 637

Fax: 07 5496 6717 Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow			J22/16
Client Address:	1587 Ipswich Road, Ro	cklea Qld 41	06	Date:	16-Jul-22
Project:	Riverbank Estate Stage	∋ 2A		Tested by:	JL
Location:	Caboolture South, Qld			Checked:	JJ
Report Number:	61	Page	3 of 6	Order No:	JJ

AS 1289 5.8.1/5.7.1/5.1.1				
Earthworks Layer (Co	ompact) AS 1289	1.2.1 (6.4(b))		
W22/9332	W22/9333	W22/9334		
Lot 433	Lot 434	Lot 444		
Centre	Centre	Centre		
Final Level	Final Level	Final Level		
Allotment Fill	Allotment Fill	Allotment Fill		
Onsite	Onsite	Onsite		
175	175	175		
200	200	200		
16-Jul-22	16-Jul-22	16-Jul-22		
After Compaction	After Compaction	After Compaction		
2.01	1.96	1.93		
N/A	N/A	N/A		
2.00		1.97		
+0.0		-0.4		
+0.0	+1.8	-0.5		
19.0	10.0	19.0		
		0.0		
0.0	0.0	0.0		
100.5	100.0	98.0		
Standard	Standard	Standard		
95%	95%	95%		
	Docket #43953			
	W22/9332 Lot 433 Centre Final Level Allotment Fill Onsite 175 200 16-Jul-22 After Compaction 2.01 N/A 2.00 +0.0 +0.0 19.0 0.0 Standard	W22/9332		



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Phone: 07 5496 6715 **Mobile:** 0438 924 637

Fax: 07 5496 6717
Email: admin@wagnersoiltesting.com.au
Web: www.wagnersoiltesting.com.au

ABN: 49 416 679 791
REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow		J22/16
Client Address:	1587 Ipswich Road, Rocklea Qld 410	1587 Ipswich Road, Rocklea Qld 4106		
Project:	Riverbank Estate Stage 2A	Riverbank Estate Stage 2A		
Location:	Caboolture South, Qld	Caboolture South, Qld		
Report Number:	62 Page	4 of 6	Order No:	JJ

Test Methods	AS 1289 5.8.1/5.7.1/	5.1.1		
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))			
Lab Number	W22/9335	W22/9336	W22/9337	
Test Location	Lot 443	Lot 442	Lot 441	
	Centre	Centre	Centre	
	Final Level	Final Level	Final Level	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	16-Jul-22	16-Jul-22	16-Jul-22	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	2.01	1.99	1.92	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	2.02	1.98	1.94	
Peak Added Moisture (%)	+0.7	+0.7	-0.4	
Moisture Correction (%)	+0.8	+0.8	-0.5	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
The second secon	0.0	0.0	0.0	
HILF DENSITY RATIO (%)	99.5	100.5	99.5	
MOISTURE VARIATION (%)				
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks				
	Docket #43953			



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Version: 5

19-10-21

01-08-22





> Phone: 07 5496 6715 Mobile: 0438 924 637

> > Fax: 07 5496 6717

Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow		Job No:	J22/16
Client Address:	1587 Ipswich Road, Ro	1587 Ipswich Road, Rocklea Qld 4106			16-Jul-22
Project:	Riverbank Estate Stage	Riverbank Estate Stage 2A			JL
Location:	Caboolture South, Qld	Caboolture South, Qld			JJ
Report Number:	63	Page	5 of 6	Order No:	JJ

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))			
Lab Number	W22/9338	W22/9339	W22/9340	
Test Location	Lot 440	Lot 439	Lot 438	
	Centre	Centre	Centre	
	Final Level	Final Level	Final Level	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	16-Jul-22	16-Jul-22	16-Jul-22	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	1.92	1.98	1.97	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	1.93	2.00	1.96	
Peak Added Moisture (%)	+0.9	+0.3	+0.8	
Moisture Correction (%)	+1.1	+0.4	+0.9	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%)	99.5	99.0	100.5	
MOISTURE VARIATION (%)		La Transport		
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
Remarks				
	Docket #43953			



Date 01-08-22

Authorised Signatory Accreditation No: 15070

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Form No: 95

Version: 5





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Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow		J22/16
Client Address:	1587 Ipswich Road, Rocklea C	1587 Ipswich Road, Rocklea Qld 4106		
Project:	Riverbank Estate Stage 2A	Riverbank Estate Stage 2A		
Location:	Caboolture South, Qld	Caboolture South, Qld		
Report Number:	64 Page	6 of 6	Order No:	JJ

Test Methods	AS 1289 5.8.1/5.7.1/5.1.1			
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))			
Lab Number	W22/9341	W22/9342	W22/9343	
Test Location	Lot 437	Lot 445	Lot 435	
	Centre	Centre	Front of Lot	
	Final Level	Final Level	Final Level	
Layer / Elevation	Allotment Fill	Allotment Fill	Allotment Fill	
Material Source	Onsite	Onsite	Onsite	
Depth Tested	175	175	175	
Layer Thickness	200	200	200	
Date Tested	16-Jul-22	16-Jul-22	16-Jul-22	
Material Sampled	After Compaction	After Compaction	After Compaction	
Test Results				
Insitu Wet Density (t/m³)	1.98	2.00	1.95	
Insitu Moisture Content (%)	N/A	N/A	N/A	
PCWD (t/m³)	1.97	2.02	1.99	
Peak Added Moisture (%)	+1.4	+0.0	+0.5	
Moisture Correction (%)	+1.6	+0.0	+0.6	
Retaining Seive (mm)	19.0	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	0.0	
HILF DENSITY RATIO (%) MOISTURE VARIATION (%)	100.5	99.0	98.0	
2				
Compaction Type	Standard	Standard	Standard	
Degree of Compaction	95%	95%	95%	
remarks		Docket #43953		
	Docket #43553			



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Fax: 07 5496 6717 Email: admin@wagnersoiltesting.com.au

ABN: 49 416 679 791 Web: www.wagnersoiltesting.com.au REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow		Job No:	J22/16
Client Address:	1587 Ipswich Road, Rocklea Qld 410	Date:	16-Jul-22	
Project:	Riverbank Estate Stage 2A	Riverbank Estate Stage 2A		
Location:	Caboolture South, Qld	Tested by: Checked:		
Report Number:	65 Page	1 of 1	Order No:	JJ

Test Methods	AS 1289 5.8.1/5.7.1/5	5.1.1	
Sample Method	Earthworks Layer (Compact) AS 1289 1.2.1 (6.4(b))		
Lab Number	W22/9344	W22/9345	(5(5))
Test Location	Suter Parade	Waterside Esplanade	
	Ch 300m	Ch 60m	
	Final Level	Final Level	
Layer / Elevation	Embankment Fill	Embankment Fill	
Material Source	Onsite	Onsite	
Depth Tested	175	175	
Layer Thickness	200	200	
Date Tested	16-Jul-22	16-Jul-22	
Material Sampled	After Compaction	After Compaction	
Test Results			
Insitu Wet Density (t/m³)	1.96	1.97	
Insitu Moisture Content (%)	N/A	N/A	
PCWD (t/m³)	1.99	1.99	
Peak Added Moisture (%)	+2.9	+2.6	
Moisture Correction (%)	+3.3	+2.9	
Retaining Seive (mm)	19.0	10.0	
Percentage Oversize (wet)	0.0	19.0	
orocinage oversize (wet)	0.0	0.0	
HILF DENSITY RATIO (%)	98.5	99.5	50 m 20% 504
MOISTURE VARIATION (%)		Managara and a	
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks			
		Docket #43955	

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Fax: 07 5496 6717 Email: admin@wagnersoiltesting.com.au

Web: www.wagnersoiltesting.com.au

ABN: 49 416 679 791

REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	CCA Winslow		J22/16
Client Address:	1587 Ipswich Road, Rocklea Qld 410	587 Ipswich Road, Rocklea Qld 4106		
Project:	Riverbank Estate Stage 2A	Riverbank Estate Stage 2A		JL
Location:	Caboolture South, Qld	Caboolture South, Qld		JJ
Report Number:	71 Page	1 of 1	Order No:	Mick

Test Methods	AS 1289 5.8.1/5.7.1/9	5.1.1	
Sample Method	Earthworks Layer (Compact) AS 1289	1.2.1 (6.4(b))
Lab Number	W22/9503	W22/9504	W22/9505
Test Location	N: 7003416	N: 7003451	N: 7003475
Park	E: 496147	E: 496137	E: 496096
Faik	EL: 12.0m	EL: 8.0m	EL: 12.0m
Layer / Elevation	Fill	Fill	Fill
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	28-Jul-22	28-Jul-22	28-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
Test Results			
nsitu Wet Density (t/m³)	1.92	1.87	1.89
nsitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m ³)	1.95	1.95	1.98
Peak Added Moisture (%)	+2.6	+0.7	+2.0
Moisture Correction (%)	+3.0	+0.8	+2.3
Retaining Seive (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
HILF DENSITY RATIO (%) MOISTURE VARIATION (%)	98.5	95.5	95.5
Compaction Type	Standard	Standard	Standard
Degree of Compaction Remarks	95%	95%	95%
Torriging		Docket #43964	-



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> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Appendix 3 – Typical Site Conditions











> Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Appendix 4 – Site Information



PO Box 171, Wamuran Qld 4512 296 Old North Road, Wamuran Qld 4512 Office: 07 5496 6715

Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Information

Important Information about your Report

As a client of Wagner Soil Testing Pty Ltd you should know that site subsurface conditions cause more construction problems than any other factor. These notes have been provided to help you interpret and understand the limitations of your report.

Your report is project specific

Your report has been developed on the basis of your unique project specific requirements as understood by Wagner Soil Testing and applies only to the site investigated. Project criteria typically include the general nature of the project; its size and configuration; the location of any structure on the site; other site improvements; the presence of underground utilities; and the additional risk imposed by scope-of-surface limitations imposed by the client. Your report should not be used if there are any changes to the project without first asking Wagner Soil Testing to assess how factors that changed subsequent to the date of the report affect the report's recommendations. Wagner Soil Testing cannot accept responsibility for problems that may occur due to changed factors if they are not consulted. Our report does not take into account any existing filled ground or any other unforeseen subsurface conditions that may change anticipated site classification.

Subsurface conditions can change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. Do not rely on a geotechnical engineering report whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. Always contact Wagner Soil Testing before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Interpretation of factual data

Site assessment identifies actual subsurface conditions only at those points where samples are taken and when they are taken. Data derived from literature and external data source review, sampling and subsequent laboratory testing are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact on the proposed development and recommended actions. Actual conditions may differ from those inferred to exist, because no professional, no matter how qualified, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions. For this reason, owners

should retain the services of Wagner Soil Testing through the development stage, to identify variances, conduct additional tests if required, and recommend solutions to problems encountered on site.

Your report will only give preliminary recommendations

Your report is based on the assumption that the site conditions as revealed through selective point sampling are indicative of actual conditions throughout an area. This assumption cannot be substantiated until project implementation has commenced and therefore your report recommendations can only be regarded as preliminary. Only Wagner Soil Testing, who prepared the report, is fully familiar with the background information needed to assess whether or not the report's recommendations are valid and whether or not changes should be considered as the project develops. If another party undertakes the implementation of recommendations of this report, there is a risk that the report will be misinterpreted, and Wagner Soil Testing cannot be held responsible for such misinterpretation.

Your report is prepared for specific purposes and persons

To avoid misuse of the information contained in your report it is recommended that you confer with Wagner Soil Testing before passing your report on to another party who may not be familiar with the background and purpose of the report. Your report should not be applied to any project other than that originally specified at the time the report was issued.

It is a requirement that the client contacts Wagner Soil Testing Pty Ltd when the exact position of the proposed building is confirmed so we can check if our Boreholes fall in the footing area [our borelogs are only presumed indicative of the whole area until this is confirmed]. In the case of a cracked house investigation more testing may be required to conclude all possible causes of settlement and or movement. Initial drilling and lab testing may only identify some of the causes of the problem. Wagner Soil Testing should be contacted when additional testing is required. It is a company policy that Wagner Soil Testing are contacted if the development (including any portion and/or envelope) is sold and/or changes title as the report is only for the use of our direct client. If the development is sold and/or changes title Wagner Soil Testing must be contacted and subsequently will carry out a comprehensive site inspection - evaluation at no cost to ensure the preliminary report is relevant and no changes whatsoever have been made.



Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 427
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of Level 1 Certification as per AS3798 – "Guidelines on Earthworks for Commercial and Residential Developments".



Notes:

Certified (Level 1) fill is only an assurance of its density. There are sites where long-term consolidations of fill can occur, unrelated to its actual density. Sites where fill has been placed over inferior material and sites where the depth of controlled fill varies dramatically over short distances are sites where differential consolidations must be considered. Although all Field Densities carried out reached density ratios greater than 95% as required, some material still may have bearing ratios below 100kPa as per AS2870 – Residential Slabs & Footings depending on material composition. Unless otherwise stated, Level 1 Certification does not address any other geotechnical issues which may be relevant to building construction. Trench backfill operations are not covered in this Level 1 Report. Site drainage must be maintained after the issue of this report. Wagner Soil Testing is to be contacted immediately if any site levels are modified whatsoever, especially at the building preparation phase. The "supervision" component of the Level 1 report is not NATA endorsed. A full geotechnical site investigation / classification and foundation design for the specific ground conditions should be carried out by suitably qualified or experienced personnel prior to building. This service can be provided, if required, by contacting Wagner Soil Testing. For further technical support regarding this Geotechnical Report please contact Mr. Jacob Jones of Wagner Soil Testing.

Form No: W103 - Version 3 (14/05/2021)



Office: 07 5496 6715 Fax: 07 5496 6717 ABN: 49 416 679 791

Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 428
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of Level 1 Certification as per AS3798 – "Guidelines on Earthworks for Commercial and Residential Developments".



Notes:

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Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 429
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of Level 1 Certification as per AS3798 – "Guidelines on Earthworks for Commercial and Residential Developments".



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Form No: W103 - Version 3 (14/05/2021)



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Email: admin@wagnersoiltesting.com.au Website: www.wagnersoiltesting.com.au

Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 430
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of Level 1 Certification as per AS3798 – "Guidelines on Earthworks for Commercial and Residential Developments".



Notes:

Certified (Level 1) fill is only an assurance of its density. There are sites where long-term consolidations of fill can occur, unrelated to its actual density. Sites where fill has been placed over inferior material and sites where the depth of controlled fill varies dramatically over short distances are sites where differential consolidations must be considered. Although all Field Densities carried out reached density ratios greater than 95% as required, some material still may have bearing ratios below 100kPa as per AS2870 – Residential Slabs & Footings depending on material composition. Unless otherwise stated, Level 1 Certification does not address any other geotechnical issues which may be relevant to building construction. Trench backfill operations are not covered in this Level 1 Report. Site drainage must be maintained after the issue of this report. Wagner Soil Testing is to be contacted immediately if any site levels are modified whatsoever, especially at the building preparation phase. The "supervision" component of the Level 1 report is not NATA endorsed. A full geotechnical site investigation / classification and foundation design for the specific ground conditions should be carried out by suitably qualified or experienced personnel prior to building. This service can be provided, if required, by contacting Wagner Soil Testing. For further technical support regarding this Geotechnical Report please contact Mr. Jacob Jones of Wagner Soil Testing.

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Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 431
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of Level 1 Certification as per AS3798 – "Guidelines on Earthworks for Commercial and Residential Developments".



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Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 432
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

The results obtained from Compaction Control Testing, together with observations made during earthworks operations indicate that all fill materials were placed in a controlled manner in accordance with good engineering practices. The earthworks have been carried out to meet the requirements of Level 1 Certification as per AS3798 – "Guidelines on Earthworks for Commercial and Residential Developments".



Notes:

Certified (Level 1) fill is only an assurance of its density. There are sites where long-term consolidations of fill can occur, unrelated to its actual density. Sites where fill has been placed over inferior material and sites where the depth of controlled fill varies dramatically over short distances are sites where differential consolidations must be considered. Although all Field Densities carried out reached density ratios greater than 95% as required, some material still may have bearing ratios below 100kPa as per AS2870 – Residential Slabs & Footings depending on material composition. Unless otherwise stated, Level 1 Certification does not address any other geotechnical issues which may be relevant to building construction. Trench backfill operations are not covered in this Level 1 Report. Site drainage must be maintained after the issue of this report. Wagner Soil Testing is to be contacted immediately if any site levels are modified whatsoever, especially at the building preparation phase. The "supervision" component of the Level 1 report is not NATA endorsed. A full geotechnical site investigation / classification and foundation design for the specific ground conditions should be carried out by suitably qualified or experienced personnel prior to building. This service can be provided, if required, by contacting Wagner Soil Testing. For further technical support regarding this Geotechnical Report please contact Mr. Jacob Jones of Wagner Soil Testing.

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Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 433
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

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Notes:

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Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 434
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

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Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 435
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

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Lot Level One Certification

Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 437
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

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Guidelines on Earthworks for Commercial & Residential Developments – AS3798

Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 438
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
Date:	22/07/2022

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Project:	Riverbank Estate Stage 2A & 2B
Lot No:	Lot 439
Job No:	J22/16
Earthworks Contractor:	CCA Winslow
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Lot No:	Lot 440
Job No:	J22/16
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Date:	22/07/2022

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