

## Level One Report AS3798

**Client:** CCA Winslow  
**Project:** Riverbank Estate Stage 17  
**Address:** Market Drive, Caboolture, Qld  
**Job No.** J22/09  
**Docket No.** 42736



Version	Date	Author	Initials	Reviewer	Initials
1	22/07/2022	Jacob Jones	J. Jones	Dean Wagner	D. Wagner

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



CONSTRUCTION

MATERIALS

TESTING

## Table of Contents

1.0	<b>Introduction</b>	Page 1
2.0	<b>Site Description</b>	Page 1
3.0	<b>Foundation Preparation</b>	Page 1
3.1	Site Stripping	
3.2	Proof Rolling	
4.0	<b>Controlled Filling</b>	Page 2
5.0	<b>Compaction Control Testing</b>	Page 2
6.0	<b>Field Density Results</b>	Page 2
7.0	<b>Report on Filling Operations</b>	Page 3
8.0	<b>Notes</b>	Page 3

**Appendix 1 – General Layout Plan**

**Appendix 2 – Field Density Reports**

**Appendix 3 – Typical Site Conditions**

**Appendix 4 – Site Information**

## 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 17.

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 Market Drive, Caboolture, Qld 4510. The general location of the site is shown in the attached site plans (Appendix 1). The site is bound by existing 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 & no significant issues were noted 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 57,441m<sup>3</sup>.

## 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, ninety-eight (98) 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. This report is to be read in conjunction with the level 1 report provided by Wagner Soil Testing - Project J21/67.

## 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.

**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.



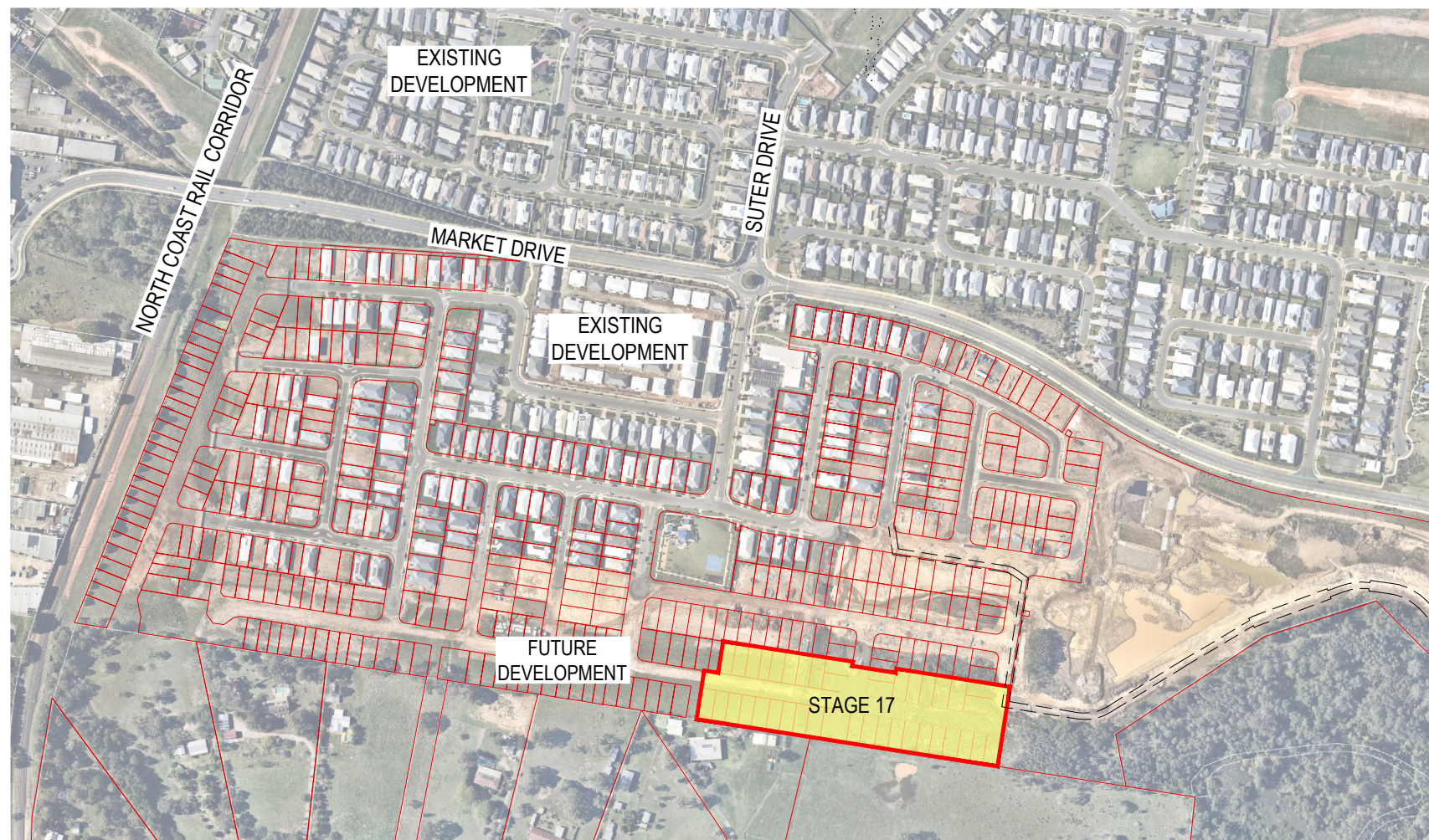
Authorised Signatory  
Wagner Soil Testing

## Appendix 1 – General Layout Plan



# RIVERBANK ESTATE

LOT 1023 SP311564 BERRY STREET CABOOLTURE SOUTH  
 STAGE 17 - EARLY WORKS BULK EARTHWORKS  
 FOR PEET CABOOLTURE SYNDICATE LTD



LOCALITY PLAN  
 NTS

## DRAWING INDEX

GENERAL	
000	COVER SHEET LOCALITY PLAN AND DRAWING INDEX
BULK EARTHWORKS	
200	BULK EARTHWORKS LAYOUT PLAN
201	BULK EARTHWORKS SECTIONS AND DETAILS
202	COMPENSATORY EARTHWORKS LAYOUT PLAN

## MORETON BAY REGIONAL COUNCIL

AREA OF SITE: 2.111 ha

## LOT INFORMATION

EXISTING LOT  
 LOT 1023 SP311564  
 STAGE 17

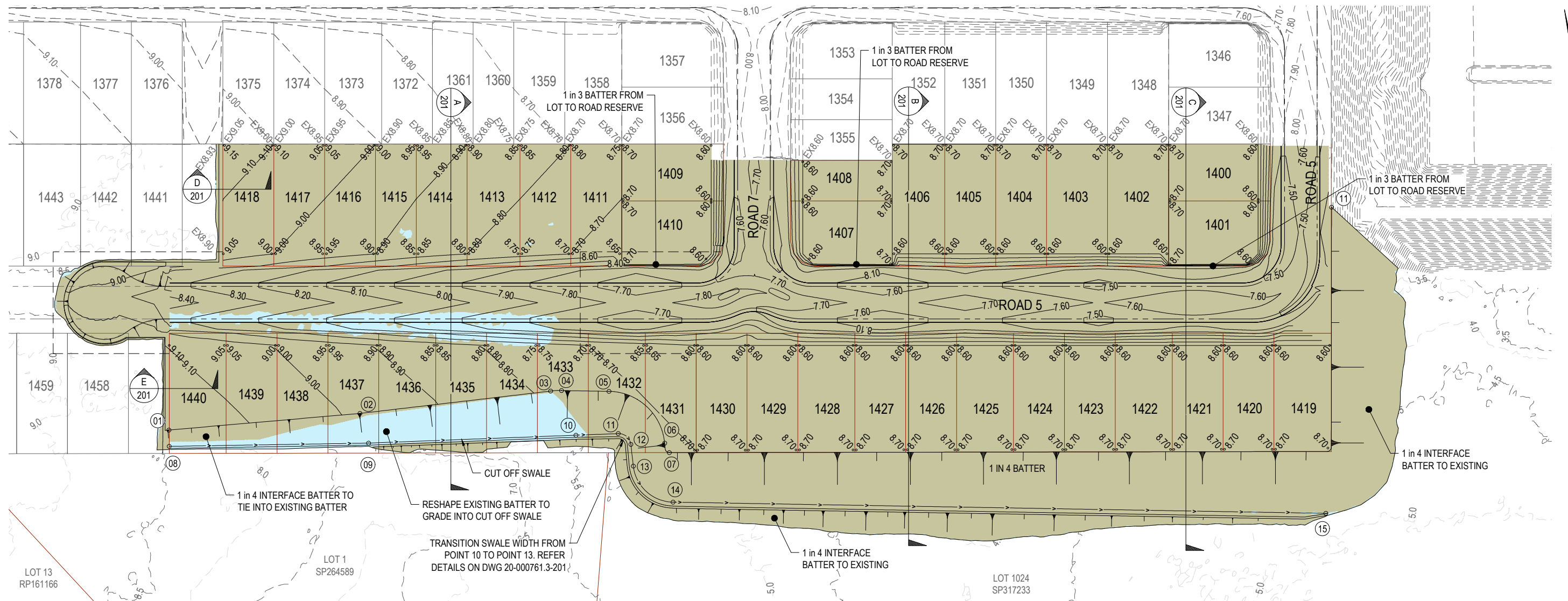
**CONSTRUCTION NOTE**  
 THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:  
 • GEOTECHNICAL REPORT (PREPARED BY SOIL SURVEYS)

**CONSTRUCTION HOLD POINT**  
 PRIOR TO CONSTRUCTION THE CONTRACTOR  
 SHALL VERIFY LOCATION AND LEVELS OF ALL EXISTING SERVICES.

## RIVERBANK ESTATE STAGE 17

Project No.: 20-000761.3	Stage: 17	Milestone: ISSUE FOR APPROVAL	Revision Date.: 03.02.21	Drawing No.: 000	Revision: 1
-----------------------------	--------------	-------------------------------------	-----------------------------	---------------------	----------------





**BULK EARTHWORKS NOTES**

1. 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.
2. 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.
3. 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.
4. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT PRIOR TO COMMENCING THE DEMOLITION OF ANY EXISTING STRUCTURES WITHIN THE SITE AREA.
5. ALL DRAINAGE STRUCTURES TO BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
6. 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.
7. ALL CLEARING SHALL BE CARRIED OUT IN STAGES TO ALLOW FOR RELOCATION OF FAUNA, COMMENCING AT THE LOWER AREAS OF THE SITE.
8. SETBACK TO FRONT OF PADS ARE 3.00m UNLESS OTHERWISE NOTIFIED.
9. CONTRACTOR TO USE INDUSTRY BEST PRACTICE TO ENSURE ADEQUATE DUST CONTROL DURING EARTHWORKS OPERATIONS.
10. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.

**EARTHWORKS QUANTITIES:**

CUT VOLUME : 191 m<sup>3</sup>  
 FILL VOLUME : 57,632 m<sup>3</sup>  
 BAL : 57,441 m<sup>3</sup> IMPORT

**CAUTION !!**  
**UNDERGROUND**  
**TELECOMMS CABLES**  
 UNDERGROUND TELECOMMUNICATION CABLES EXIST IN THIS VICINITY. CONTACT SUPPLIER FOR CABLE LOCATIONS. EXTREME CARE MUST BE TAKEN WHILST EXCAVATING.

**CAUTION !!**  
**OVERHEAD**  
**ELECTRICAL CABLES**  
 OVERHEAD ELECTRICITY CABLES EXIST IN THIS VICINITY. CONTACT ENERGEX WHERE CABLE CLEARANCE IS COMPROMISED BY MACHINERY.

**NOTE:**  
 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**

- 64.0 --- EXISTING SURFACE CONTOUR (0.5m INTERVALS)
- 64.0 --- EXISTING STAGES CURRENTLY UNDER CONSTRUCTION CONTOURS (0.1m INTERVALS)
- 66.0 --- BULK EARTHWORKS SURFACE CONTOUR (0.1m INTERVALS)
- [Blue Area] AREA OF EARTHWORKS CUT
- [Green Area] AREA OF EARTHWORKS FILL
- o 15.27 FINISHED SURFACE SPOT LEVEL
- o EX58.75 EXISTING SURFACE SPOT LEVEL
- [Line with Ticks] PROPOSED EARTHWORKS BATTER
- [Line with Arrow] PROPOSED CUT OFF SWALE

**BATTER AND SWALE SETOUT**

Point No.	Easting	Northing	Level
01	5907.201	2646.317	9.168
02	5954.199	2642.989	8.976
03	6001.335	2641.076	8.782
04	6004.005	2640.787	8.771
05	6015.500	2638.756	8.730
06	6027.032	2624.042	8.727
07	6027.781	2621.566	8.725
08	5906.636	2642.341	8.186
09	5955.153	2635.454	7.059
10	6005.789	2629.393	5.886
11	6197.960	2655.639	7.881
11	6016.121	2628.156	5.736
12	6018.762	2625.046	5.715
13	6018.528	2619.686	5.691
14	6026.783	2609.402	5.626
15	6184.796	2581.560	4.906

**NOTE:**  
 DESIGN LEVELS AND CONTOURS ARE TO FINISH LEVEL.  
 ROAD CARRIAGE WAYS ARE TO BE FILLED TO PAVEMENT SUBGRADE LEVEL ONLY.

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS	SCALE	CLIENT	PROJECT	DRAWING TITLE
1	03.02.21	ISSUED FOR APPROVAL	CR	CR	CR	ISSUED FOR APPROVAL	1:500 1:1000	PEET CABOOLTURE SYNDICATE LTD	RIVERBANK ESTATE STAGE 17	BULK EARTHWORKS LAYOUT PLAN
DESIGN CHECK						APPROVED	FOR & ON BEHALF OF CALIBRE PROFESSIONAL SERVICES PTY LTD		DISCLAIMER	PROJECT No.
HJ						LESLIE ROCHE	RPEQ 14843	ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE.		DRAWING No.
								© calibre calibregroup.com		200
										REVISION
										1





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](mailto:admin@wagnersoiltesting.com.au)  
Website: [www.wagnersoiltesting.com.au](http://www.wagnersoiltesting.com.au)


## Appendix 2 – Field Density Reports

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	02-Feb-22
Project:	Riverbank Estate Stages 17 & 2A	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJ
Report Number:	6 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	W22/1077	W22/1078	W22/1079
Test Location	Lot 1422	Lot 1423	Loy 1424
	Centre	Centre	Centre
	2.0m Below FL	2.0m Below FL	2.0m 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	02-Feb-22	02-Feb-22	02-Feb-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.97	2.02	2.01
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.02	2.06	2.06
Peak Added Moisture (%)	+0.2	+3.8	+3.8
Moisture Correction (%)	+0.3	+4.1	+4.1
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>	<b>98.5</b>	<b>97.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #41845</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 08-02-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	09-Sep-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJMick
Report Number:	7	Page	1 of 1
		Order No:	

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	W22/1437	W22/1438	W22/1439
Test Location	Adjacent Lot 1406	Adjacent Lot 1404	Adjacent Lot 1402
Road 5	1.8m Below FL	1.8m Below FL	1.8m Below FL
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	09-Feb-22	09-Feb-22	09-Feb-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.97	2.01	1.98
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.03	2.04	2.03
Peak Added Moisture (%)	+0.2	+0.2	+0.2
Moisture Correction (%)	+0.2	+0.2	+0.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.5</b>	<b>98.5</b>	<b>97.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42201</b>		



  
 \_\_\_\_\_  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 15-02-22



# WAGNER

SOIL TESTING

ABN: 49 416 679 791



PO Box 171 Wamuran Qld 4512  
296 Old North Road, Wamuran Qld 4512

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	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	10-Feb-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW / JJ
Report Number:	10	Page	3 of 4
		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	W22/1567	W22/1568	W22/1569
Test Location	Lot 1400	Lot 1404	Lot 1402
	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
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.01	1.97	2.00
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.07	2.04	2.07
Peak Added Moisture (%)	+0.1	-0.4	-0.3
Moisture Correction (%)	+0.1	-0.5	-0.4
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>	<b>97.0</b>	<b>97.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	Docket #42211		



Authorised Signatory  
Accreditation No: 15070  
Accredited for compliance ISO/IEC 17025 - Testing

Date 22-02-22

Form No: 95

Version: 5

19-10-21

CONSTRUCTION

MATERIALS

TESTING




## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	10-Feb-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW / JJ
Report Number:	11	Page	4 of 4
		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	W22/1570	W22/1571	W22/1572
Test Location	Lot 1403	Lot 1404	Lot 1405
	Centre	Centre	Centre
	3rd Lift	3rd Lift	3rd Lift
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
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
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.98	1.94	1.96
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.06	2.04	2.04
Peak Added Moisture (%)	-1.1	-1.6	-1.5
Moisture Correction (%)	-1.3	-1.9	-1.8
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>96.5</b>	<b>95.5</b>	<b>96.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42211</b>		



  
 \_\_\_\_\_  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 22-02-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	11-Feb-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJ
Report Number:	14	Page	3 of 3
		Order No:	<b>Nathan</b>

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	W22/1724	W22/1725	W22/1726
Test Location	Lot 1421	Lot 1422	Lot 1423
	Centre	Centre	Centre
	2.0m Below FL	2.0m Below FL	2.0m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
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
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.00	1.97	1.95
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.06	2.05	2.05
Peak Added Moisture (%)	-0.2	-1.2	-2.6
Moisture Correction (%)	-0.2	-1.4	-3.1
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>	<b>96.5</b>	<b>95.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42215</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

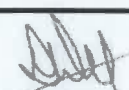
Date 16-02-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Mar-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJ
Report Number:	29	Page	1 of 2
		Order No:	Rob

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	W22/2837	W22/2838	W22/2839
Test Location	Lot 1419	Lot 1420	Lot 1421
	Centre	Centre	Centre
	1.2m Below FL	1.2m Below FL	1.2m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Mar-22	17-Mar-22	17-Mar-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.96	1.97	1.97
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.99	2.02	2.02
Peak Added Moisture (%)	+1.7	+2.3	+3.8
Moisture Correction (%)	+2.0	+2.6	+4.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>98.0</b>	<b>97.5</b>	<b>97.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42312</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 30-03-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Mar-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJ
Report Number:	30	Page	2 of 2
		Order No:	Rob

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	W22/2840	W22/2841	W22/2842
Test Location	Lot 1422	Lot 1423	Lot 1424
	Centre	Centre	Centre
	1.2m Below FL	1.2m Below FL	1.2m 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	17-Mar-22	17-Mar-22	17-Mar-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.00	1.99	1.95
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.07	2.02	2.00
Peak Added Moisture (%)	+4.2	+2.2	+1.8
Moisture Correction (%)	+4.5	+2.5	+2.1
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>	<b>98.0</b>	<b>97.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42312</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 30-03-22




## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	21-Mar-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJ
Report Number:	32	Page	1 of 2
		Order No:	David

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	W22/2982	W22/2983	W22/2984
Test Location	Lot 1407	Lot 1408	Lot 1427
	Centre	Centre	Centre
	2.0m Below FL	2.0m Below FL	2.0m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	21-Mar-22	21-Mar-22	21-Mar-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.99	1.94	1.98
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.97	1.99	2.04
Peak Added Moisture (%)	+2.2	+2.3	+2.3
Moisture Correction (%)	+2.5	+2.6	+2.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>	<b>97.5</b>	<b>97.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42324</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 30-03-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	21-Mar-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJ
Report Number:	33	Page	2 of 2
		Order No:	David

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	W22/2985		
Test Location	Lot 1428		
	Centre		
	2.0m Below FL		
Layer / Elevation	<b>Allotment Fill</b>		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	21-Mar-22		
Material Sampled	After Compaction		
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.95		
In situ Moisture Content (%)	N/A		
PCWD (t/m <sup>3</sup> )	2.00		
Peak Added Moisture (%)	+2.2		
Moisture Correction (%)	+2.5		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
<b>HILF DENSITY RATIO (%)</b>	<b>97.5</b>		
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	<b>Docket #42324</b>		



  
 \_\_\_\_\_  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

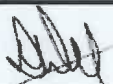
Date 30-03-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	23-Mar-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	34	Page	1 of 2
		Order No:	Rob

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	W22/3115	W22/3116	W22/3117
Test Location	Lot 1410	Lot 1411	Lot 1401
	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	23-Mar-22	23-Mar-22	23-Mar-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.00	1.96	2.01
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.08	2.04	2.08
Peak Added Moisture (%)	+1.0	+2.6	+1.3
Moisture Correction (%)	+1.1	+2.9	+1.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>96.0</b>	<b>96.0</b>	<b>97.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42334</b>		



  
\_\_\_\_\_  
Authorised Signatory  
Accreditation No: 15070  
Accredited for compliance ISO/IEC 17025 - Testing


Date 05-04-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	23-Mar-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	35	Page	2 of 2
		Order No:	Rob

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	W22/3118	W22/3119	W22/3120
Test Location	Lot 1402	Lot 1403	Lot 1404
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	23-Mar-22	23-Mar-22	23-Mar-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.07	2.02	2.05
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.09	2.07	2.10
Peak Added Moisture (%)	+3.3	+2.0	+1.7
Moisture Correction (%)	+3.6	+2.2	+1.9
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>99.0</b>	<b>97.5</b>	<b>97.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42334</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 05-04-22

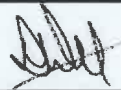


## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	25-May-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJ
Report Number:	45 Page	Order No:	Rob
			1 of 1

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	W22/3229	W22/3230	W22/3231
Test Location	Lot 1404	Lot 1405	Lot 1406
	Centre	Centre	Centre
	1.8m Below FL	1.8m Below FL	1.8m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	25-May-22	25-May-22	25-May-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.95	1.99	1.98
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.99	2.05	2.03
Peak Added Moisture (%)	+1.8	+2.4	+3.9
Moisture Correction (%)	+2.1	+2.1	+4.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>98.0</b>	<b>97.5</b>	<b>97.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42348</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 08-04-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	11-Apr-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	51	Page	1 of 4
		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	W22/3974	W22/3975	W22/3976
Test Location	Lot 1408	Lot 1408	Lot 1407
	Centre Line	Centre Line	Centre Line
	0.6m Below FL	Final Level	0.6m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
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
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.09	2.13	2.13
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.16	2.16	2.13
Peak Added Moisture (%)	+2.6	+0.3	+1.0
Moisture Correction (%)	+2.8	+0.3	+1.1
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>	<b>98.5</b>	<b>100.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #41339</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 03-05-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	11-Apr-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	52	Page	2 of 4
		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	W22/3977	W22/3978	W22/3979
Test Location	Lot 1407	Lot 1406	Lot 1406
	Centre Line	Centre Line	Centre Line
	Final Level	0.6m Below FL	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
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
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.13	2.12	2.11
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.13	2.15	2.16
Peak Added Moisture (%)	+1.6	+3.4	+2.0
Moisture Correction (%)	+1.8	+3.7	+2.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>100.0</b>	<b>99.0</b>	<b>97.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #41339</b>		



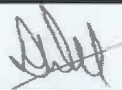
  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 03-05-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	11-Apr-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	53	Page	3 of 4
		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	W22/3980	W22/3981	W22/3982
Test Location	Lot 1405	Lot 1405	Lot 1404
	Centre Line	Centre Line	Centre Line
	0.6m Below FL	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
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
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.11	2.10	2.08
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.13	2.15	2.14
Peak Added Moisture (%)	+0.7	+2.6	+0.9
Moisture Correction (%)	+0.8	+2.8	+1.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>99.0</b>	<b>98.0</b>	<b>97.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #41339</b>		

Authorised Signatory  
Accreditation No: 15070  
Accredited for compliance ISO/IEC 17025 - Testing

Date 03-05-22




## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	11-Apr-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	54 Page 4 of 4	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	W22/3983	W22/3984	W22/3985
Test Location	Lot 1404	Lot 1403	Lot 1403
	Centre Line	Centre Line	Centre Line
	Final Level	0.6m Below FL	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
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
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.13	2.16	2.11
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.15	2.15	2.18
Peak Added Moisture (%)	+2.6	+1.0	+0.5
Moisture Correction (%)	+2.8	+1.1	+0.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>99.5</b>	<b>100.5</b>	<b>96.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #41339</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 03-05-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	12-Apr-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	55 Page	1 of 2	Order No: <b>Mick</b>

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	W22/3936	W22/3937	W22/3938
Test Location	Lot 1425/1426	Lot 1427/1428	Lot 1424/1423
	Centre Line Boundary	Centre Line Boundary	Centre Line Boundary
	0.2m Below FL	0.9m Below FL	2.2m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	12-Apr-22	12-Apr-22	12-Apr-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.05	2.10	1.90
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.09	2.10	2.10
Peak Added Moisture (%)	+0.3	+1.0	-2.7
Moisture Correction (%)	+0.4	+1.1	-3.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>98.5</b>	<b>100.0</b>	<b>90.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #41314</b>		



  
 \_\_\_\_\_  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 05-05-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	12-Apr-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	56	Page	2 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	W22/3939	W22/3940	
Test Location	Lot 1421/1422	Lot 1420/1419	
	1.6m Below FL	1.5m Below FL	
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	
Material Source	Onsite	Onsite	
Depth Tested	175	175	
Layer Thickness	200	200	
Date Tested	12-Apr-22	12-Apr-22	
Material Sampled	After Compaction	After Compaction	
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.05	2.12	
In situ Moisture Content (%)	N/A	N/A	
PCWD (t/m <sup>3</sup> )	2.08	2.10	
Peak Added Moisture (%)	-1.1	-0.2	
Moisture Correction (%)	-1.3	-0.2	
Retaining Sieve (mm)	19.0	19.0	
Percentage Oversize (wet)	0.0	0.0	
<b>HILF DENSITY RATIO (%)</b>	<b>98.5</b>	<b>100.5</b>	
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	
Degree of Compaction	95%	95%	
Remarks	<b>Docket #41314</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 05-05-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	22-Apr-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	58	Page	1 of 1
		Order No:	<b>Mick</b>

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	W22/4645	W22/4646	W22/4647
Test Location	Lot 1423	Lot 1424	Lot 1425
	Rear Centre Line	Rear Centre Line	Centre Line
	1.5m Below FL	0.8m Below FL	1.5m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
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
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.11	2.06	2.06
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.15	2.13	2.14
Peak Added Moisture (%)	-0.9	-1.0	-0.4
Moisture Correction (%)	-1.0	-1.2	-0.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>98.5</b>	<b>96.0</b>	<b>96.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42868</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 09-05-22




## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	29-Apr-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	75	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	W22/4802	W22/4803	W22/4804
Test Location	Road 5	Road 5	Road 5
	Ch 420m	Ch 355m	Ch 302m
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Blended	Blended	Blended
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	29-Apr-22	29-Apr-22	29-Apr-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	2.01	2.03	2.04
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.10	2.13	2.12
Peak Added Moisture (%)	-0.7	-1.2	-0.5
Moisture Correction (%)	-0.5	-1.4	-0.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>95.5</b>	<b>95.5</b>	<b>96.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42878</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 09-05-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	04-May-22
Project:	Riverbank Estate Stage 17	Tested by:	PF
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	79	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	W22/5243	W22/5244	W22/5245
Test Location	Lot 1422	Lot 1424/1425	Lot 1427
	Rear Centre Line	Centre Line Boundary	Rear Centre Line
	0.6m Below FL	0.95m Below FL	0.90m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	04-May-22	04-May-22	04-May-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.88	1.91	2.01
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.00	2.03	2.12
Peak Added Moisture (%)	-2.2	-1.8	-1.8
Moisture Correction (%)	-2.7	-2.1	-2.1
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>94.0</b>	<b>94.5</b>	<b>94.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #42528</b>		




Authorised Signatory  
Accreditation No: 15070  
Accredited for compliance ISO/IEC 17025 - Testing


Date 12-05-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	07-Jun-22
Project:	Riverbank Estate Stage 17	Tested by:	AL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	86	Page	1 of 1
		Order No:	<b>Mick</b>

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	W22/6497	W22/6498	W22/6499
Test Location	Lot 1428	Lot 1430	Lot 1431
	Centre Line RL: 8.12	Rear CL RL: 8.67	Front CL RL: 8.61
	0.8m Below FL	0.8m Below FL	0.8m Below FL
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	07-Jun-22	07-Jun-22	07-Jun-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.98	1.97	1.98
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.03	2.02	2.00
Peak Added Moisture (%)	+1.4	-1.1	+0.6
Moisture Correction (%)	+1.6	-1.3	+0.7
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.5</b>	<b>97.5</b>	<b>99.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43271</b>		



  
 \_\_\_\_\_  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 28-06-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	08-Jun-22
Project:	Riverbank Estate Stage 17	Tested by:	AL
Location:	Caboolture South, Qld	Checked:	DS
Report Number:	87	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	W22/6557	W22/6558	W22/6559
Test Location	East Bund End	Centre Bund	West Bund End
Decating Basin 2	496033	496086	496162
	7002494	7002481	7002472
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	08-Jun-22	08-Jun-22	08-Jun-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.85	1.82	1.84
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.01	2.03	2.04
Peak Added Moisture (%)	-2.6	-2.5	-2.7
Moisture Correction (%)	-3.2	-3.0	-3.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>92.0</b>	<b>89.5</b>	<b>90.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43275</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 10-06-22




## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	124	Page	1 of 11
		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	W22/9346	W22/9347	W22/9348
Test Location	Lot 1433	Lot 1434	Lot 1435
	Front of Lot	Front of Lot	Front of Lot
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
Insitu Wet Density (t/m <sup>3</sup> )	1.96	1.91	2.00
Insitu Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.02	1.98	1.99
Peak Added Moisture (%)	+0.9	+0.5	+2.2
Moisture Correction (%)	+1.0	+0.6	+2.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>	<b>97.0</b>	<b>100.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 01-08-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	125	Page	2 of 11
		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	W22/9349	W22/9350	W22/9351
Test Location	Lot 1418	Lot 1417	Lot 1416
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.94	1.97	1.88
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.99	1.98	1.87
Peak Added Moisture (%)	+0.1	+1.5	+0.0
Moisture Correction (%)	+0.1	+1.7	+0.0
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.5</b>	<b>99.5</b>	<b>100.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
\_\_\_\_\_  
Authorised Signatory  
Accreditation No: 15070  
Accredited for compliance ISO/IEC 17025 - Testing


Date 01-08-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	126	Page	3 of 11
		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	W22/9352	W22/9353	W22/9354
Test Location	Lot 1415	Lot 1414	Lot 1413
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.96	2.01	1.92
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.98	2.01	2.01
Peak Added Moisture (%)	+1.4	+2.9	+1.1
Moisture Correction (%)	+1.6	+3.2	+1.3
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>99.0</b>	<b>100.0</b>	<b>95.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 01-08-22



## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	127	Page	4 of 11
		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	W22/9355	W22/9356	W22/9357
Test Location	Lot 1412	Lot 1409	Lot 1400
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.99	2.01	1.90
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.01	2.00	1.91
Peak Added Moisture (%)	+2.7	+2.1	-0.5
Moisture Correction (%)	+3.0	+2.4	-0.6
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>99.5</b>	<b>100.5</b>	<b>99.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 01-08-22

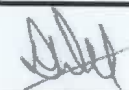


## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	128	Page	5 of 11
		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	W22/9358	W22/9359	W22/9360
Test Location	Lot 1436	Lot 1437	Lot 1438
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.99	1.95	1.92
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.99	1.98	1.94
Peak Added Moisture (%)	+1.4	+1.9	+0.4
Moisture Correction (%)	+1.6	+2.1	+0.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>100.0</b>	<b>98.5</b>	<b>99.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
 \_\_\_\_\_  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

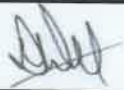
Date 01-08-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	129	Page	6 of 11
		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	W22/9361	W22/9362	W22/9363
Test Location	Lot 1439	Lot 1440	Lot 1419
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	2.00	1.98	1.93
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.00	2.01	1.98
Peak Added Moisture (%)	+2.5	-0.3	+1.1
Moisture Correction (%)	+2.8	-0.4	+1.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>100.5</b>	<b>98.0</b>	<b>97.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 01-08-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	130	Page	7 of 11
		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	W22/9364	W22/9365	W22/9366
Test Location	Lot 1420	Lot 1421	Lot 1422
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.92	1.89	1.95
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.92	1.89	2.00
Peak Added Moisture (%)	+2.1	+0.6	+2.4
Moisture Correction (%)	+2.4	+0.7	+2.7
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>100.0</b>	<b>100.0</b>	<b>97.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
\_\_\_\_\_  
Authorised Signatory  
Accreditation No: 15070  
Accredited for compliance ISO/IEC 17025 - Testing

Date 01-08-22




## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	131 Page 8 of 11	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	W22/9367	W22/9368	W22/9369
Test Location	Lot 1423	Lot 1424	Lot 1425
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.90	1.86	1.91
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.96	1.89	1.90
Peak Added Moisture (%)	-0.6	-1.3	+0.9
Moisture Correction (%)	-0.7	-1.7	+1.1
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>97.5</b>	<b>98.0</b>	<b>100.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 01-08-22




## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	132 Page 9 of 11	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	W22/9370	W22/9371	W22/9372
Test Location	Lot 1426	Lot 1427	Lot 1428
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.99	1.89	1.92
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.99	1.91	1.92
Peak Added Moisture (%)	+0.0	-0.3	+0.4
Moisture Correction (%)	+0.0	-0.4	+0.5
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>100.0</b>	<b>99.0</b>	<b>100.0</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing


Date 01-08-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	JJ
Report Number:	132	Page	1 of 1
		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	W22/9377	W22/9378
Test Location	Road 5	Road 5
	Ch 180m	Ch 240m
	Final Level	Final Level
Layer / Elevation	<b>Embankment Fill</b>	<b>Embankment Fill</b>
Material Source	Onsite	Onsite
Depth Tested	175	175
Layer Thickness	200	200
Date Tested	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction
<b>Test Results</b>		
In situ Wet Density (t/m <sup>3</sup> )	1.94	1.99
In situ Moisture Content (%)	N/A	N/A
PCWD (t/m <sup>3</sup> )	2.04	2.02
Peak Added Moisture (%)	+0.5	+2.1
Moisture Correction (%)	+0.6	+2.4
Retaining Sieve (mm)	19.0	19.0
Percentage Oversize (wet)	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>95.5</b>	<b>98.5</b>
<b>MOISTURE VARIATION (%)</b>		
Compaction Type	Standard	Standard
Degree of Compaction	95%	95%
Remarks	<b>Docket #43954</b>	



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

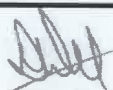
Date 01-08-22

## REPORT ON FIELD HILF DENSITY - NUCLEAR METER

Client:	CCA Winslow	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	133 Page 10 of 11	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	W22/9373	W22/9374	W22/9375
Test Location	Lot 1429	Lot 1430	Lot 1431
	Centre	Centre	Centre
	Final Level	Final Level	Final Level
Layer / Elevation	<b>Allotment Fill</b>	<b>Allotment Fill</b>	<b>Allotment Fill</b>
Material Source	Onsite	Onsite	Onsite
Depth Tested	175	175	175
Layer Thickness	200	200	200
Date Tested	17-Jul-22	17-Jul-22	17-Jul-22
Material Sampled	After Compaction	After Compaction	After Compaction
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.94	1.99	1.90
In situ Moisture Content (%)	N/A	N/A	N/A
PCWD (t/m <sup>3</sup> )	1.97	2.02	1.97
Peak Added Moisture (%)	+1.0	+0.6	+1.0
Moisture Correction (%)	+1.2	+0.7	+1.2
Retaining Sieve (mm)	19.0	19.0	19.0
Percentage Oversize (wet)	0.0	0.0	0.0
<b>HILF DENSITY RATIO (%)</b>	<b>99.0</b>	<b>98.5</b>	<b>96.5</b>
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard	Standard	Standard
Degree of Compaction	95%	95%	95%
Remarks	<b>Docket #43954</b>		



  
 Authorised Signatory  
 Accreditation No: 15070  
 Accredited for compliance ISO/IEC 17025 - Testing

Date 01-08-22





# WAGNER

SOIL TESTING

ABN: 49 416 679 791



PO Box 171 Wamuran Qld 4512  
296 Old North Road, Wamuran Qld 4512  
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	Job No:	J22/09
Client Address:	1587 Ipswich Road, Rocklea Qld 4106	Date:	17-Jul-22
Project:	Riverbank Estate Stage 17	Tested by:	JL
Location:	Caboolture South, Qld	Checked:	DW
Report Number:	134	Page	11 of 11
		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	W22/9376		
Test Location	Lot 1432		
	Centre		
	Final Level		
Layer / Elevation	<b>Allotment Fill</b>		
Material Source	Onsite		
Depth Tested	175		
Layer Thickness	200		
Date Tested	17-Jul-22		
Material Sampled	After Compaction		
<b>Test Results</b>			
In situ Wet Density (t/m <sup>3</sup> )	1.90		
In situ Moisture Content (%)	N/A		
PCWD (t/m <sup>3</sup> )	1.95		
Peak Added Moisture (%)	+0.4		
Moisture Correction (%)	+0.5		
Retaining Sieve (mm)	19.0		
Percentage Oversize (wet)	0.0		
<b>HILF DENSITY RATIO (%)</b>	<b>97.0</b>		
<b>MOISTURE VARIATION (%)</b>			
Compaction Type	Standard		
Degree of Compaction	95%		
Remarks	<b>Docket #43954</b>		



Authorized Signatory  
Accreditation No: 15070  
Accredited for compliance ISO/IEC 17025 - Testing

Date 01-08-22

Form No: 95

Version: 5

19-10-21



## Appendix 3 – Typical Site Conditions





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@wagnersoilstesting.com.au](mailto:admin@wagnersoilstesting.com.au)  
Website: [www.wagnersoilstesting.com.au](http://www.wagnersoilstesting.com.au)

## Appendix 4 – Site Information

# 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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1400
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1401
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1402
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1403
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1404
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1405
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1406
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1407
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1408
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1409
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1410
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1411
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1412
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1413
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1414
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1415
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1416
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1417
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1418
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1419
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1420
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1421
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1422
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1423
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1424
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1425
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1426
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1427
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1428
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1429
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1430
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1431
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1432
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1433
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1434
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1435
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1436
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1437
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1438
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.



## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1439
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.

## Lot Level One Certification

### Guidelines on Earthworks for Commercial & Residential Developments – AS3798

<b>Project:</b>	Riverbank Estate Stage 17
<b>Lot No:</b>	1440
<b>Job No:</b>	J22/09
<b>Earthworks Contractor:</b>	CCA Winslow
<b>Date:</b>	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”**.



Jacob Jones  
Laboratory Manager  
Wagner Soil Testing

**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.