

# WORKS INSPECTION & TESTING Bulk Earthworks

PROPOSED  
RESIDENTIAL  
DEVELOPMENT

**Pebble Creek –  
Stage 3**

JOB NO: P1966 comp01



Prepared for CCA Winslow  
16<sup>th</sup> November 2020

## Document Information

Prepared for CCA Winslow  
Project Name Proposed Residential Development – Pebble Creek – Stage 3

Job Number P1966  
Date 16<sup>th</sup> November 2020

## Document Control

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## INTRODUCTION

Construction Sciences was commissioned by **CCA Winslow** to carry out the geotechnical inspection and testing required for the proposed development at Pebble Creek, which was carried out between 3<sup>rd</sup> September 2020 and 3<sup>rd</sup> November 2020.

## SCOPE OF WORKS

The Earthworks on this development was monitored in accordance with the scope of our commission as follows:

**Level 1:** Bulk earthworks stripping and filling was inspected and tested on a Level 1 basis, in accordance with AS 3798-2007.

Scope of Level 1 responsibility: ***"The primary objective of Level 1 Inspection and Testing is for the geotechnical inspection and testing authority (GITA) to be able to express an opinion on the compliance of the work. The GITA is responsible for ensuring that the inspection and testing is sufficient for this purpose.***

***The GITA needs to have competent personnel on site at all times while earthwork operations are undertaken. Such operations include the following:***

- (a) ***Completion of removal of topsoil.***
- (b) ***Placing of imported or cut material.***
- (c) ***Compaction and adding/removal of moisture.***
- (d) ***Trenching and backfilling, where applicable.***
- (e) ***Test rolling.***
- (f) ***Testing.***

***The superintendent should agree on a suitable inspection and testing plan prior to the commencement of the works".***

*reference AS3798 – Section 8.2*

## SPECIFICATION REQUIREMENTS

Earthworks on this development was inspected and tested in accordance with the specification of the design engineer, **Peak Urban** and to the specifications of the local authority, **Logan City Council**.

The following table is a summary of the basic compaction and quality requirements for the project.

Testing procedures used to confirm that these requirements were met were all in accordance with Australian Standard test methods

<b>SPECIFICATIONS</b>	
<b>Item</b>	<b>Minimum Compaction Requirement</b>
<i>Bulk Earthworks Fill</i>	<i>95% Wet Density Ratio - Standard</i>

## SITE WORKS - BULK EARTHWORKS

**General:** Full time site inspection was maintained in accordance with Level 1 requirements whilst earthworks were carried out on this development. Fill areas included residential allotments, roads and embankments.

The areas to be filled were stripped and proof rolled in accordance with the specification requirements. Areas displaying instability were generally excavated until competent conditions were encountered. Benching was provided on slopes where filling was to be placed.

The natural ground in the areas of filling generally comprised of sandy CLAYS and clayey to SANDS.

The material used in the bulk earthworks filling was sourced from site cutting to design levels.

**Compaction Control Testing:** Compaction control testing via the nuclear densometer method was carried out at regular intervals throughout the placement of fill, in accordance with the minimum test frequency recommendations included in AS3798 "Guidelines on Earthworks for Commercial and Residential Developments".

All test results are included in Appendix A. A summary of the test results is included as Table 1. A total of 28 field density tests were carried out throughout the earthworks. The average wet density ratio was recorded to be 98.5%. The maximum wet density ratio was 102.5% and minimum was 95%.

## CONCLUSION

We confirm that:

- (a) Our representative was in full time site attendance whilst bulk earthworks filling was in progress between 3<sup>rd</sup> September 2020 and 3<sup>rd</sup> November 2020 at Pebble Creek – Stage 3.
- (b) Pre – fill ground preparation was carried out in accordance with the specifications and site instruction given.
- (c) The structural filling placed to design levels during the term of our engagement on a "Level 1" basis can be termed "controlled filling".
- (d) The results of the compaction control testing indicate that the fill placed during the term of our site attendance, was compacted to at least the minimum specified wet density ratio.
- (e) All test results pertaining to the development are included within appendix A of this report.



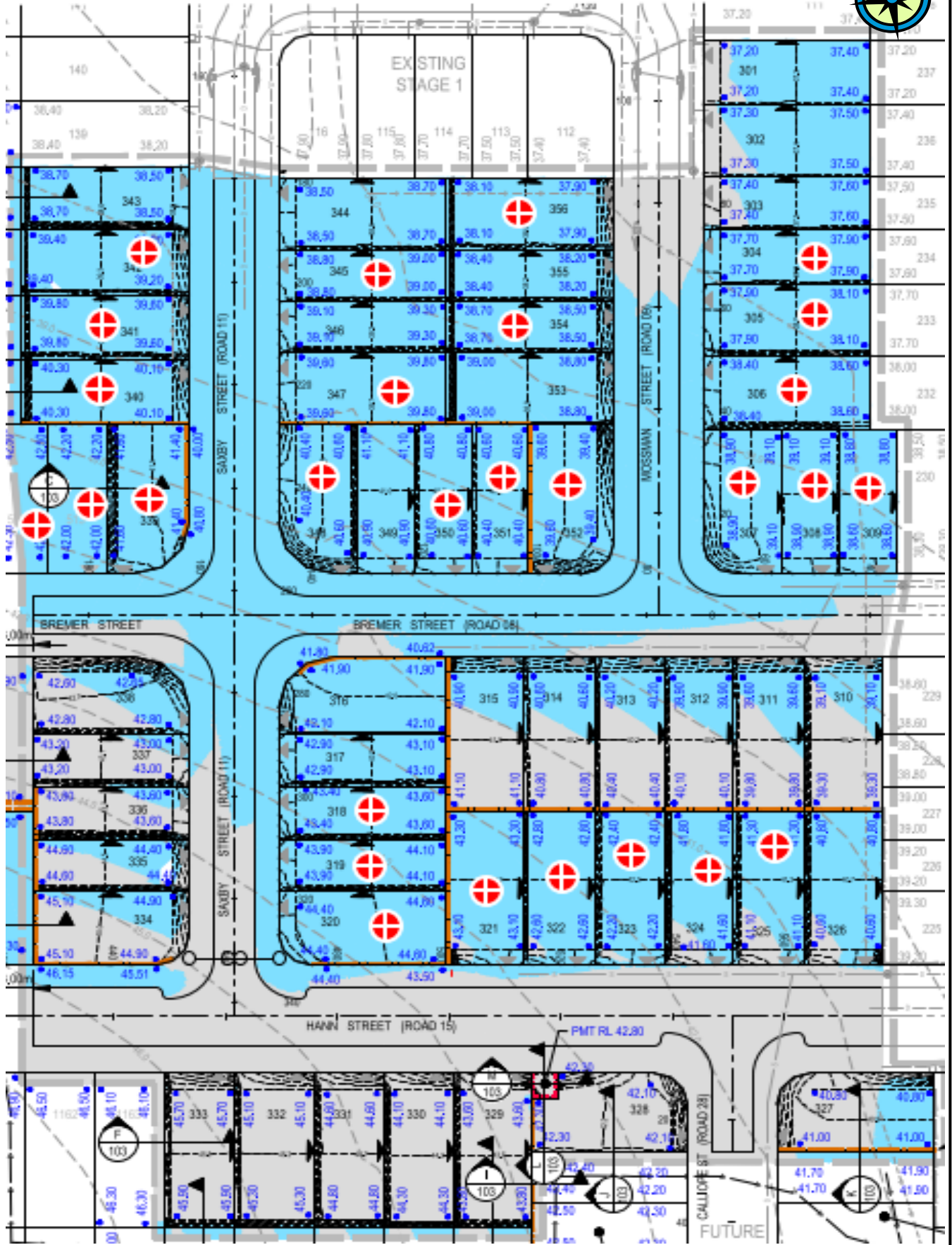
**WAYNE GORMAN**  
**LABORATORY MANAGER**  
**Construction Sciences**

# Bulk Fill

Client:	CCA Winslow	Date Range:	03/09/2020 - 03/11/2020
Project:	1979/P/1966 - Pebble Creek - Stage 3	Material Source:	-
Sub-Project:	-	Material Type:	-

Sample Client Reference	Sample Number	Sample Date	Location 1	Location 2	Location 3	Location 4	Wet Density Ratio	Moisture Ratio
EW-1	1979/S/141598	3/09/2020	6813.859	25495.077	43.191	Lot 319	96.5	86.5
EW-2	1979/S/141599	3/09/2020	6833.613	25495.152	42.377	Lot 321	96.5	87
EW-3	1979/S/141606	4/09/2020	6805.659	25489.937	43.903	Lot 320	97	82.5
EW-4	1979/S/141607	4/09/2020	6844.833	25497.163	41.941	Lot 322	96.5	82
EW-5	1979/S/141608	4/09/2020	6860.683	25498.933	40.975	Lot 323	98	88.5
EW-6	1979/S/141807	7/09/2020	6807.071	25510.695	43.527	Lot 318	103	101
EW-7	1979/S/141808	7/09/2020	6866.278	25481.787	41.682	Lot 324	100.5	100
EW-8	1979/S/141809	7/09/2020	6875.988	25480.442	41.076	Lot 325	101.5	98
EW-9	1979/S/142010	10/09/2020	6854.389	25570.033	39.017	Lot 352	96.5	87
EW-10	1979/S/142011	10/09/2020	6897.029	25563.455	38.008	Lot 308	100	85
EW-11	1979/S/142012	10/09/2020	6824.322	25589.803	39.060	Lot 347	97.5	84
EW-12	1979/S/142158	11/09/2020	6852.655	25618.207	37.951	Lot 356	101	83.5
EW-13	1979/S/142159	11/09/2020	6867.144	25606.206	38.820	Lot 345	99	81.5
EW-14	1979/S/142160	11/09/2020	6867.055	25606.205	38.808	Lot 354	102.5	103
EW-15	1979/S/142352	14/09/2020	6843.366	25569.879	40.353	Lot 351	101	102.5
EW-16	1979/S/142353	14/09/2020	6834.934	25571.877	40.423	Lot 350	100.5	101
EW-17	1979/S/142354	14/09/2020	6812.966	25573.886	40.439	Lot 348	99.5	102
EW-18	1979/S/142367	15/09/2020	6887.800	25557.881	38.370	Lot 307	99.5	99
EW-19	1979/S/142368	15/09/2020	6890.834	25580.834	37.880	Lot 306	102.5	99
EW-20	1979/S/142462	16/09/2020	6906.206	25559.639	38.371	Lot 309	98.5	99.5
EW-21	1979/S/142463	16/09/2020	6902.626	25591.508	37.909	Lot 305	95.5	99.5
EW-22	1979/S/142539	18/09/2020	6899.266	25605.440	37.742	Lot 304	96	98.5
EW-23	1979/S/142540	18/09/2020	6782.503	25586.509	41.493	Lot 339	99.5	98.5
EW-24	1979/S/144824	23/10/2020	6770.310	25579.740	41.630	Lot 513	96	81
EW-25	1979/S/144825	23/10/2020	6761.780	25580.710	41.660	Lot 512	96.5	79.5
EW-26	1979/S/145214	3/11/2020	6771.78	25598.47	39.85	Lot 340	95	82.5
EW-27	1979/S/145215	3/11/2020	6785.98	25608.58	39.34	Lot 341	95.5	80
EW-28	1979/S/145216	3/11/2020	6786.22	25621.61	39.24	Lot 342	95	82






Client: CCA Winslow	Project Number: 1979/P/1966
Project: Pebble Creek - Stage 3	Sketch Number: SK 01
Test Item: Density Testing	Date Issued: 16/11/2020






 <b>Construction Sciences</b>	Client: CCA Winslow	Project Number: 1979/P/1966
	Project: Pebble Creek - Stage 3	Sketch Number: SK 02
	Test Item: Site Photos	Date Issued: 16/11/2020





 <b>Construction Sciences</b>	Client: CCA Winslow	Project Number: 1979/P/1966
	Project: Pebble Creek - Stage 3	Sketch Number: SK 03
	Test Item: Site Photos	Date Issued: 16/11/2020

APPENDIX

# A

BULK EARTHWORKS  
FILL





## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/51230-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	03/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	10/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/141598	1979/S/141599		
ID / Client ID	EW-1	EW-2		
Lot Number	03/09/2020	03/09/2020		
Date / Time Tested	3/09/2020 13:07	3/09/2020 13:19		
Material Source	Cut to Fill	Cut to Fill		
Material Type	Bulk Fill	Bulk Fill		
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200		
Standard or Modified	Standard	Standard		
Easting: m	6813.859	6833.613		
Northing m	25495.077	25495.152		
RL: m	43.191	42.377		
Allotment:	Lot 319	Lot 321		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/141598	1979/S/141599		
Sample Description	Clayey Sand - Brown	Clayey Sand - Brown		
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.7	12.0		
Adjusted / Moisture Variation (%)	2.0	2.0		
Optimum Moisture Content (%)	14.5	14.0		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
<b>Moisture Ratio (%)</b>	<b>86.5</b>	<b>87.0</b>		
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	1.95	1.97		
Adj/Peak Conv Wet Density (t/m³)	2.02	2.05		
Density Ratio Required (%)	95	95		
<b>Hilf Density Ratio (%)</b>	<b>96.5</b>	<b>96.5</b>		

Remarks



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Accreditation Number: 1986

Corporate Site Number: 1979



Approved Signatory: Dean Stimpson

Form ID: W5ASRep Rev 2

## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/51356-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	04/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	11/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/141606	1979/S/141607	1979/S/141608	
ID / Client ID	EW-3	EW-4	EW-5	
Lot Number	04/09/2020	04/09/2020	04/09/2020	
Date / Time Tested	4/09/2020 12:51	4/09/2020 13:02	4/09/2020 13:13	
Material Source	Cut to Fill	Cut to Fill	Cut to Fill	
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Standard	Standard	Standard	
Easting: m	6805.659	6844.833	6860.683	
Northing m	25489.937	25497.163	25498.933	
RL: m	43.903	41.941	40.975	
Allotment:	Lot 320	Lot 322	Lot 323	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	0	
Compaction Sample Number	1979/S/141606	1979/S/141607	1979/S/141608	
Sample Description	Sandy Clay - Light Brown	Sandy Clay - Light Brown	Sandy Clay - Light Brown	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	8.6	8.1	13.0	
Adjusted / Moisture Variation (%)	2.0	2.0	1.5	
Optimum Moisture Content (%)	10.5	10.0	14.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	<b>82.5</b>	<b>82.0</b>	<b>88.5</b>	
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	2.01	2.05	2.06	
Adj/Peak Conv Wet Density (t/m³)	2.07	2.12	2.11	
Density Ratio Required (%)	95	95	95	
<b>Hilf Density Ratio (%)</b>	<b>97.0</b>	<b>96.5</b>	<b>98.0</b>	

Remarks



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## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/51372-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	07/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	14/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/141807	1979/S/141808	1979/S/141809	
ID / Client ID	EW-6	EW-7	EW-8	
Lot Number	07/09/2020	07/09/2020	07/09/2020	
Date / Time Tested	7/09/2020 13:02	7/09/2020 13:08	7/09/2020 13:17	
Material Source	Cut to Fill	Cut to Fill	Cut to Fill	
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Standard	Standard	Standard	
Easting: m	6807.071	6866.278	6875.988	
Northing m	25510.695	25481.787	25480.442	
RL: m	43.527	41.682	41.076	
Allotment:	Lot 318	Lot 324	Lot 325	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	0	
Compaction Sample Number	1979/S/141807	1979/S/141808	1979/S/141809	
Sample Description	Clayey Sand - Brown	Clayey Sand - Brown	Clayey Sand - Brown	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	13.1	18.8	14.7	
Adjusted / Moisture Variation (%)	0.0	0.0	0.5	
Optimum Moisture Content (%)	13.0	19.0	15.0	
Moisture Variation from OMC	(Wetter than OMC)	(at OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	<b>101.0</b>	<b>100.0</b>	<b>98.0</b>	
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	2.13	2.03	2.10	
Adj/Peak Conv Wet Density (t/m³)	2.06	2.02	2.07	
Density Ratio Required (%)	95	95	95	
<b>Hilf Density Ratio (%)</b>	<b>103.0</b>	<b>100.5</b>	<b>101.5</b>	

Remarks


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Accreditation Number: 1986

Corporate Site Number: 1979



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Form ID: W5ASRep Rev 2

## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/51568-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	10/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	22/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/142010	1979/S/142011	1979/S/142012	
ID / Client ID	EW-9	EW-10	EW-11	
Lot Number	10/09/2020	10/09/2020	10/09/2020	
Date / Time Tested	10/09/2020 15:20	10/09/2020 15:32	10/09/2020 15:41	
Material Source	On-Site	On-Site	On-Site	
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Standard	Standard	Standard	
Easting: m	6854.389	6897.029	6824.322	
Northing m	25570.033	25563.455	25589.803	
RL: m	39.017	38.008	39.060	
Allotment:	Lot 352	Lot 308	Lot 347	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	0	
Compaction Sample Number	1979/S/142010	1979/S/142011	1979/S/142012	
Sample Description	Clayey Sand - Brown	Clayey Sand - Brown	Clayey Sand - Brown	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.8	11.9	10.0	
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	
Optimum Moisture Content (%)	13.5	14.0	12.0	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	<b>87.0</b>	<b>85.0</b>	<b>84.0</b>	
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	1.97	2.13	2.08	
Adj/Peak Conv Wet Density (t/m³)	2.04	2.13	2.14	
Density Ratio Required (%)	95	95	95	
<b>Half Density Ratio (%)</b>	<b>96.5</b>	<b>100.0</b>	<b>97.5</b>	

Remarks



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Accreditation Number: 1986

Corporate Site Number: 1979



Approved Signatory: Dean Stimpson

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## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/51714-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	11/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	24/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/142158	1979/S/142159	1979/S/142160	
ID / Client ID	EW-12	EW-13	EW-14	
Lot Number	11/09/2020	11/09/2020	11/09/2020	
Date / Time Tested	11/09/2020 15:15	11/09/2020 15:27	11/09/2020 15:40	
Material Source	Cut to Fill	Cut to Fill	Cut to Fill	
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / -	175 / 200 / -	175 / 200 / -	
Standard or Modified	Standard	Standard	Standard	
Easting: m	6852.655	6867.144	6867.055	
Northing m	25618.207	25606.206	25606.205	
RL: m	37.951	38.820	38.808	
Allotment:	Lot 356	Lot 345	Lot 354	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	0	
Compaction Sample Number	1979/S/142158	1979/S/142159	1979/S/142160	
Sample Description	clayey SAND	clayey SAND	Sand, Clay - Brown	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	8.6	7.6	10.0	
Adjusted / Moisture Variation (%)	2.0	2.0	-0.5	
Optimum Moisture Content (%)	10.5	9.5	9.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)	
<b>Moisture Ratio (%)</b>	<b>83.5</b>	<b>81.5</b>	<b>103.0</b>	
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	2.15	2.09	2.09	
Adj/Peak Conv Wet Density (t/m³)	2.13	2.11	2.04	
Density Ratio Required (%)	95	95	95	
<b>Hilf Density Ratio (%)</b>	<b>101.0</b>	<b>99.0</b>	<b>102.5</b>	

Remarks



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Accreditation Number: 1986

Corporate Site Number: 1979



Approved Signatory: Matthew Ketchup

Form ID: W5ASRep Rev 2

## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/51715-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	14/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	24/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/142352	1979/S/142353	1979/S/142354	
ID / Client ID	EW-15	EW-16	EW-17	
Lot Number	14/09/2020	14/09/2020	14/09/2020	
Date / Time Tested	14/09/2020 15:02	14/09/2020 15:11	14/09/2020 15:22	
Material Source	Cut to Fill	Cut to Fill	Cut to Fill	
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / -	175 / 200 / -	175 / 200 / -	
Standard or Modified	Standard	Standard	Standard	
Easting: m	6843.366	6834.934	6812.966	
Northing m	25569.879	25571.877	25573.886	
RL: m	40.353	40.423	40.439	
Allotment:	Lot 351	Lot 350	Lot 348	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	0	
Compaction Sample Number	1979/S/142352	1979/S/142353	1979/S/142354	
Sample Description	sandy clay - brown	Sand,Clay - Brown	Sand,Clay - Brown	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	9.0	11.2	11.5	
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	
Optimum Moisture Content (%)	9.0	11.0	11.5	
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	
<b>Moisture Ratio (%)</b>	<b>102.5</b>	<b>101.0</b>	<b>102.0</b>	
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	2.13	2.12	2.07	
Adj/Peak Conv Wet Density (t/m³)	2.11	2.11	2.09	
Density Ratio Required (%)	95	95	95	
<b>Hilf Density Ratio (%)</b>	<b>101.0</b>	<b>100.5</b>	<b>99.5</b>	

Remarks



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.  
Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation Number: 1986

Corporate Site Number: 1979



Approved Signatory: Matthew Ketchup

Form ID: W5ASRep Rev 2



## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/51717-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	15/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	24/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/142367	1979/S/142368		
ID / Client ID	EW-18	EW-19		
Lot Number	15/09/2020	15/09/2020		
Date / Time Tested	15/09/2020 10:05	15/09/2020 10:18		
Material Source	Cut to Fill	Cut to Fill		
Material Type	Bulk Fill	Bulk Fill		
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	175 / 200 / -	175 / 200 / -		
Standard or Modified	Standard	Standard		
Easting: m	6887.800	6890.834		
Northing m	25557.881	25580.834		
RL: m	38.370	37.880		
Allotment:	Lot 307	Lot 306		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/142367	1979/S/142368		
Sample Description	clayey SAND	clayey SAND		
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.8	10.3		
Adjusted / Moisture Variation (%)	0.0	0.0		
Optimum Moisture Content (%)	12.0	10.5		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
<b>Moisture Ratio (%)</b>	<b>99.0</b>	<b>99.0</b>		
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	2.11	2.19		
Adj/Peak Conv Wet Density (t/m³)	2.12	2.14		
Density Ratio Required (%)	95	95		
<b>Hilf Density Ratio (%)</b>	<b>99.5</b>	<b>102.5</b>		

Remarks



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Accreditation Number: 1986

Corporate Site Number: 1979



Approved Signatory: Matthew Ketchup

Form ID: W5ASRep Rev 2

## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/51657-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	16/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	24/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/142462	1979/S/142463		
ID / Client ID	EW-20	EW-21		
Lot Number	16/09/2020	16/09/2020		
Date / Time Tested	16/09/2020 09:47	16/09/2020 09:59		
Material Source	Cut to Fill	Cut to Fill		
Material Type	Bulk Fill	Bulk Fill		
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200		
Standard or Modified	Standard	Standard		
Easting: m	6906.206	6902.626		
Northing m	25559.639	25591.508		
RL: m	38.371	37.909		
Allotment:	Lot 309	Lot 305		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/142462	1979/S/142463		
Sample Description	Clayey Sand - Brown	Clayey Sand - Brown		
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	14.9	75.7		
Adjusted / Moisture Variation (%)	0.0	0.5		
Optimum Moisture Content (%)	15.0	76.0		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
<b>Moisture Ratio (%)</b>	<b>99.5</b>	<b>99.5</b>		
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	2.10	2.04		
Adj/Peak Conv Wet Density (t/m³)	2.13	2.14		
Density Ratio Required (%)	95	95		
<b>Hilf Density Ratio (%)</b>	<b>98.5</b>	<b>95.5</b>		

Remarks



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Accreditation Number: 1986

Corporate Site Number: 1979



Approved Signatory: Dean Stimpson

Form ID: W5ASRep Rev 2

## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/52345-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	18/09/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	29/09/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/142539	1979/S/142540		
ID / Client ID	EW-22	EW-23		
Lot Number	18/09/2020	18/09/2020		
Date / Time Tested	18/09/2020 10:11	18/09/2020 10:42		
Material Source	Cut to Fill	Cut to Fill		
Material Type	Bulk Fill	Bulk Fill		
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200		
Standard or Modified	Standard	Standard		
Easting: m	6899.266	6782.503		
Northing m	25605.440	25586.509		
RL: m	37.742	41.493		
Allotment:	Lot 304	Lot 339		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/142539	1979/S/142540		
Sample Description	Clayey Sand - Brown	Clayey Sand - Brown		
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.5	11.5		
Adjusted / Moisture Variation (%)	0.0	0.0		
Optimum Moisture Content (%)	11.5	11.5		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
<b>Moisture Ratio (%)</b>	<b>98.5</b>	<b>98.5</b>		
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	2.12	2.12		
Adj/Peak Conv Wet Density (t/m³)	2.21	2.13		
Density Ratio Required (%)	95	95		
<b>Hilf Density Ratio (%)</b>	<b>96.0</b>	<b>99.5</b>		

Remarks



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Accreditation Number: 1986

Corporate Site Number: 1979



Approved Signatory: Dean Stimpson

Form ID: W5ASRep Rev 2



## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/53016-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	23/10/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	28/10/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/144824	1979/S/144825		
ID / Client ID	EW-24	EW-25		
Lot Number	23/10/2020	23/10/2020		
Date / Time Tested	23/10/2020 14:37	23/10/2020 14:45		
Material Source	On-Site	On-Site		
Material Type	Bulk Fill	Bulk Fill		
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b		
Depths: Test / Nom / Actual (mm)	175 / 200 / 200	175 / 200 / 200		
Standard or Modified	Standard	Standard		
Easting: m	6770.310	6761.780		
Northing m	25579.740	25580.710		
RL: m	41.630	41.660		
Allotment:	Lot 513	Lot 512		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/144824	1979/S/144825		
Sample Description	Clayey Sand - Brown	Clayey Sand - Brown		
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	8.2	8.2		
Adjusted / Moisture Variation (%)	2.0	2.0		
Optimum Moisture Content (%)	10.0	10.5		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
<b>Moisture Ratio (%)</b>	<b>81.0</b>	<b>79.5</b>		
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	1.99	2.02		
Adj/Peak Conv Wet Density (t/m³)	2.08	2.10		
Density Ratio Required (%)	95	95		
<b>Hilf Density Ratio (%)</b>	<b>96.0</b>	<b>96.5</b>		

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing		
	Accreditation Number: 1986 Corporate Site Number: 1979	
		Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



## WET DENSITY RATIO REPORT

Client:	CCA Winslow	Report Number:	1979/R/53264-1
Client Address:	1587 Ipswich Road, Rocklea	Project Number:	1979/P/1966
Project:	Pebble Creek - Stage 3	Lot Number:	03/11/2020
Location:	230 Mountain Ridge Road, South McLean	Internal Test Request:	1979/T/28038
Component:	Bulk Fill	Client Reference/s:	Earthworks level 1
Area Description:	Earthworks	Report Date / Page:	11/11/2020 <span style="float: right;">Page 1 of 1</span>

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/145214	1979/S/145215	1979/S/145216	
ID / Client ID	EW-26	EW-27	EW-28	
Lot Number	03/11/2020	03/11/2020	03/11/2020	
Date / Time Tested	3/11/2020 10:05	3/11/2020 10:16	3/11/2020 10:28	
Material Source	On-Site	On-Site	On-Site	
Material Type	Bulk Fill	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	AS1289.1.2.1 CI 6.4b	
Depths: Test / Nom / Actual (mm)	175 / 200 / -	175 / 200 / -	175 / 200 / -	
Standard or Modified	Standard	Standard	Standard	
Easting: m	6771.78	6785.98	6786.22	
Northing m	25598.47	25608.58	25621.61	
RL: m	39.85	39.34	39.24	
Allotment:	Lot 340	Lot 341	Lot 342	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	0	
Compaction Sample Number	1979/S/145214	1979/S/145215	1979/S/145216	
Sample Description	Sandy Clay Brown	Sandy Clay Brown	Sandy Clay Brown	
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	9.3	8.4	9.5	
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	
Optimum Moisture Content (%)	11.5	10.5	11.5	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	
<b>Moisture Ratio (%)</b>	<b>82.5</b>	<b>80.0</b>	<b>82.0</b>	
<b>Density Test Results:</b>				
Field Wet Density (t/m³)	2.05	1.96	1.94	
Adj/Peak Conv Wet Density (t/m³)	2.16	2.04	2.05	
Density Ratio Required (%)	95	95	95	
<b>Hilf Density Ratio (%)</b>	<b>95.0</b>	<b>95.5</b>	<b>95.0</b>	

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing


 Accreditation Number: 1986  
 Corporate Site Number: 1979



 Approved Signatory: Dean Stimpson  
 Form ID: W5ASRep Rev 2

APPENDIX

# B

LOT CERTIFICATES



Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

1 Fox Road  
Acacia Ridge QLD 4110  
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CCA Winslow  
1587 Ipswich Road  
ROCKLEA QLD 4106

PO Box 253  
Acacia Ridge QLD 4110  
Australia

Phone: 61 7 3320 8500  
[www.constructionsciences.net](http://www.constructionsciences.net)

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 301, PEBBLE CREEK – STAGE 3, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman  
Lab Manager  
For Brisbane South  
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

1 Fox Road  
Acacia Ridge QLD 4110  
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Australia

Phone: 61 7 3320 8500  
[www.constructionsciences.net](http://www.constructionsciences.net)

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 302, PEBBLE CREEK – STAGE 3, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Yours faithfully



Wayne Gorman  
Lab Manager  
For Brisbane South  
Construction Sciences



Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

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PO Box 253  
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Phone: 61 7 3320 8500  
[www.constructionsciences.net](http://www.constructionsciences.net)

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 303, PEBBLE CREEK – STAGE 3, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman  
Lab Manager  
For Brisbane South  
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

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PO Box 253  
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Australia

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 304, PEBBLE CREEK – STAGE 3, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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Yours faithfully



Wayne Gorman  
Lab Manager  
For Brisbane South  
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

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Acacia Ridge QLD 4110  
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Phone: 61 7 3320 8500  
[www.constructionsciences.net](http://www.constructionsciences.net)

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 305, PEBBLE CREEK – STAGE 3, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

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I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman  
Lab Manager  
For Brisbane South  
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

1 Fox Road  
Acacia Ridge QLD 4110  
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Australia

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[www.constructionsciences.net](http://www.constructionsciences.net)

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 306, PEBBLE CREEK – STAGE 3, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

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I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman  
Lab Manager  
For Brisbane South  
Construction Sciences



Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

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[www.constructionsciences.net](http://www.constructionsciences.net)

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 307, PEBBLE CREEK – STAGE 3, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman  
Lab Manager  
For Brisbane South  
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 308, PEBBLE CREEK – STAGE 3, FLAGSTONE**

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Lab Manager  
For Brisbane South  
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1966

Construction Sciences Pty Ltd  
ABN 74 128 806 735

16/11/2020

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Phone: 61 7 3320 8500  
[www.constructionsciences.net](http://www.constructionsciences.net)

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 309, PEBBLE CREEK – STAGE 3, FLAGSTONE**

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For Brisbane South  
Construction Sciences

Ref: 1979/L/1

Project Ref: 1979/P/1966

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ABN 74 128 806 735

16/11/2020

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL  
LOT 356, PEBBLE CREEK – STAGE 3, FLAGSTONE**

This is to confirm that placement and compaction of the allotment fill for the above project and Lot was supervised by Construction Sciences Pty Ltd under Level 1 arrangements as described in AS3798-2007 "Guidelines on earthworks for commercial and residential developments".

This indicates that the fill was compacted to at least the minimum density ratio in accordance with the specification requirements and it is considered that the fill may be deemed to be "controlled fill" in accordance with AS2870-2011 "Residential Slabs & Footings".

It may be that non-structural topsoil was placed on the block after completion of the structural fill. This would need to be removed as part of the site preparation for building and driveway construction.

I trust this meets your requirements. Please do not hesitate to contact me if you have any queries.

Yours faithfully



Wayne Gorman  
Lab Manager  
For Brisbane South  
Construction Sciences

## Contact

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