

**WORKS  
INSPECTION &  
TESTING  
Bulk Earthworks**

**PROPOSED  
RESIDENTIAL  
DEVELOPMENT**

**WOODLINKS VILLAGE  
STAGE 22**

**JOB NO: P2090 comp01**



Prepared for Shadforths Civil  
13<sup>th</sup> January 2022

# Document Information

Prepared for Shadforths Civil  
Project Name Proposed Residential Development – Woodlinks Village Stage 22  
  
Job Number P2090  
Date 13<sup>th</sup> January 2022

# Document Control

**Document Control** - This Document Is:- ORIGINAL  COPY

Report ID	Date	Author	Reviewer			
P2090 comp 01	13/01/2022	Wayne Gorman	WG	Dean Stimpson	DS	
<b>Distributed to:</b>			<b>No.</b>	<b>Original</b>	<b>Copy</b>	<b>Electronic</b>
Shadforths Civil			1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
<i>Construction Sciences - Archives</i>			1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Contact : Wayne Gorman  
[wayne.gorman@constructionsciences.net](mailto:wayne.gorman@constructionsciences.net)  
1 Fox Road  
Acacia Ridge QLD 4110

© Construction Sciences 2017. Copyright in the whole and every part of this document belongs to CS and may not be used, sold, transferred, copied or reproduced in whole or in part in any manner or form or in or on any media to any person other than by agreement with CS.

This document is produced by CS solely for the benefit and use by the client in accordance with the terms of the engagement. CS does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by any third party on the content of this document.

## Table of Contents

<b>INTRODUCTION</b>	<b>4</b>
<b>SCOPE OF WORKS</b>	<b>4</b>
Level 1	
<b>SPECIFICATION REQUIREMENTS</b>	<b>4</b>
<b>SITE WORKS - BULK EARTHWORKS</b>	<b>5</b>
General	
Compaction Control Testing	
<b>CONCLUSION</b>	<b>5</b>
<b>SITE PHOTOGRAPHS</b>	

## Appendices

**Appendix A Bulk Earthworks – Compaction**

**Appendix B Lot Certificates**

## INTRODUCTION

Construction Sciences was commissioned by **Shadforths Civil** to carry out the geotechnical inspection and testing required for the proposed development at Collingwood Park, which was carried out between 27<sup>th</sup> August 2021 and 10<sup>th</sup> September 2021.

## 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, **Ipswich 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><i>Item</i></b>	<b><i>Minimum Compaction Requirement</i></b>
<b><i>Bulk Earthworks Fill</i></b>	<b><i>95% Wet Density Ratio - Standard</i></b>

## 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 gravelly to sandy CLAYS and clayey 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 total of 45 field density tests were carried out throughout the earthworks. The average wet density ratio was recorded to be 99.0%. The maximum wet density ratio was 101.5% and minimum was 95.5%.

## CONCLUSION

We confirm that:

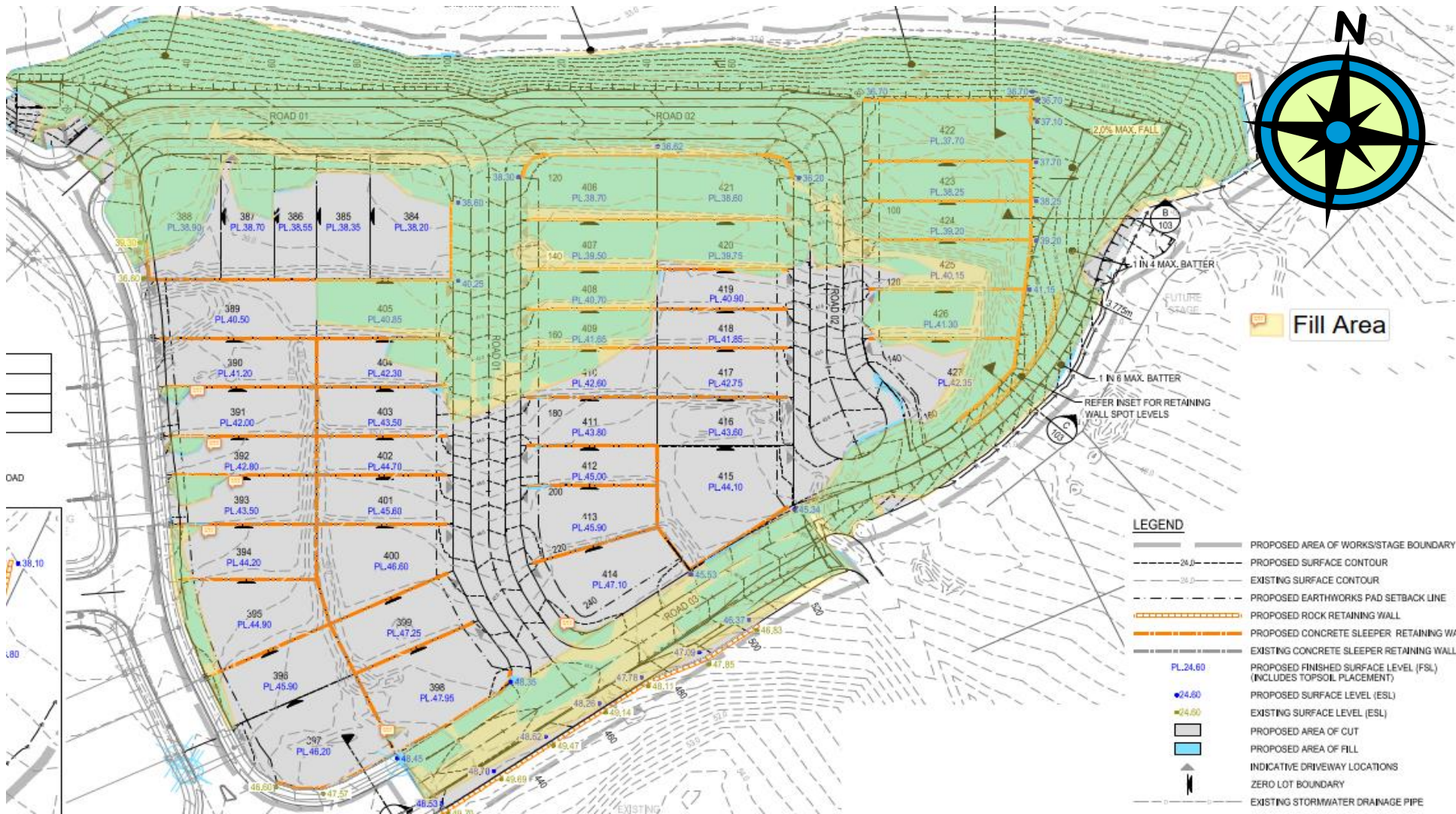
- (a) Our representative was in full time site attendance whilst bulk earthworks filling was in progress between 27<sup>th</sup> September 2021 and 10<sup>th</sup> August 2021 at Woodlinks Village Stage 22
- (b) Pre – fill ground preparation was carried out in accordance with the specifications and site 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**



CLIENT: <b>Shadforths Civil</b>	JOB No.: <b>P 2090</b>
PROJECT: <b>Woodlinks Village Stage 22</b>	SKETCH No.: <b>SK 1</b>
TEST ITEM: <b>Site Photos</b>	DATE ISSUED: <b>13/01/2022</b>



CLIENT: **Shadforths Civil**  
 PROJECT: **Woodlinks Village Stage 22**  
 TEST ITEM: **Fill Area**

JOB No **P2090**  
 SKETCH No.: **SK 02**  
 DATE ISSUED: **13/01/2022**

APPENDIX

# A

BULK EARTHWORKS







## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth's Civil <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Woodlinks Stage 22 <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/62778-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> Bulk Fill <b>Internal Test Request:</b> 1979/T/33678 <b>Client Reference/s:</b> WR: 7220 <b>Report Date / Page:</b> 25/10/2021 <span style="float: right;">Page 1 of 2</span>
---	---

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/170580	1979/S/170581	1979/S/170582	1979/S/170583
ID / Client ID	-	-	-	-
Lot Number	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Date / Time Tested	27/09/2021 09:00	27/09/2021 09:05	27/09/2021 09:10	27/09/2021 09:20
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	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)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Allotment 423 Offset North/East Corner 3m South, 8m West	Allotment 422 Offset North/East Corner 4m South, 6m West	Allotment 424 Offset North/East Corner 2m South, 4m West	Allotment 421 Offset North/East Corner 5m South, 7m West
Level	Finished Level	Finished Level	Finished Level	Finished Level
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/170580	1979/S/170581	1979/S/170582	1979/S/170583
Sample Description	Sandy CLAY - Brown	clayey sandy brown	Clay sandy brown	Clayey sandy brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	9.8	9.7	6.8	10.2
Adjusted / Moisture Variation (%)	2.0	1.5	1.5	1.5
Optimum Moisture Content (%)	11.5	11.0	8.5	12.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	<b>84.0</b>	<b>87.5</b>	<b>80.0</b>	<b>85.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.23	2.24	2.21	2.22
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.19	2.28	2.24	2.24
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>101.5</b>	<b>98.0</b>	<b>98.5</b>	<b>99.0</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



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforths Civil <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Woodlinks Stage 22 <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/62778-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> Bulk Fill <b>Internal Test Request:</b> 1979/T/33678 <b>Client Reference/s:</b> WR: 7220 <b>Report Date / Page:</b> 25/10/2021 <span style="float: right;">Page 2 of 2</span>
--	---

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/170584	1979/S/170585	1979/S/170586	1979/S/170587
ID / Client ID	-	-	-	-
Lot Number	Bulk Fill	Bulk Fill	Bulk Fill	Bulk Fill
Date / Time Tested	27/09/2021 09:30	27/09/2021 09:40	27/09/2021 09:50	27/09/2021 10:00
Material Source	On-Site	On-Site	On-Site	On-Site
Material Type	Allotment Fill	Allotment Fill	Allotment Fill	Allotment Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	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)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Allotment 420 Offset North/East Corner 3m South, 5m West	Allotment 406 Offset North/East Corner 5m South, 4m West	Allotment 384 Offset North/East Corner 2m South, 3m West	Allotment 388 Offset North/East Corner 4m South, 5m West
Level	Finished Level	Finished Level	Finished Level	Finished Level
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/170584	1979/S/170585	1979/S/170586	1979/S/170587
Sample Description	Sandy CLAY - Brown	Clayey gravel brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	8.5	11.3	9.5	9.9
Adjusted / Moisture Variation (%)	2.0	1.5	1.5	1.5
Optimum Moisture Content (%)	10.5	13.0	11.0	11.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
<b>Moisture Ratio (%)</b>	<b>81.0</b>	<b>87.5</b>	<b>88.0</b>	<b>84.5</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.21	2.21	2.24	2.22
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.24	2.24	2.26	2.25
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>98.5</b>	<b>98.5</b>	<b>99.5</b>	<b>99.0</b>

Remarks
---------

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



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 1 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176482	1979/S/176483	1979/S/176484	1979/S/176485
ID / Client ID	-	-	-	-
Lot Number	2/8/21	2/8/21	2/8/21	2/8/21
Date / Time Tested	2/08/2021 11:04	2/08/2021 11:09	2/08/2021 11:15	2/08/2021 11:22
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Road 1	Road 2	Road 2	Road 2
Chainage	m 65	m 10	m 70	m 90
Offset	m 5.0m Left of CL	m 4.0m Left of CL	m 4.0m Left of CL	m 4.0m Left of CL
Level	m 1.8m Below F/L	m 1.8m Below F/L	m 1.7 Below F/L	m 1.7 Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176482	1979/S/176483	1979/S/176484	1979/S/176485
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.4	11.5	11.7	11.6
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	11.5	11.5	11.5	11.5
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(at OMC)
<b>Moisture Ratio (%)</b>	<b>101.0</b>	<b>102.0</b>	<b>101.0</b>	<b>100.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.26	2.22	2.20	2.20
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.29	2.28	2.27	2.29
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>98.5</b>	<b>97.5</b>	<b>96.5</b>	<b>96.0</b>

Remarks
---------

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



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 2 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176486	1979/S/176487	1979/S/176488	1979/S/176489
ID / Client ID	-	-	-	-
Lot Number	3/8/21	3/8/21	3/8/21	3/8/21
Date / Time Tested	3/08/2021 09:45	3/08/2021 09:52	3/08/2021 10:03	3/08/2021 10:11
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Road 1	Road 1	Road 2	Road 2
Chainage	m 50	m 95	m 25	m 60
Offset	m 7.0m Left of CL	m 0.5m Left of CL	m 2.5m Left of CL	m 1.5m Right of CL
Level	m 1.5m Below F/L	m 1.6m Below F/L	m 1.4m Below F/L	m 1.4m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176486	1979/S/176487	1979/S/176488	1979/S/176489
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.5	12.2	12.3	12.5
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	12.5	12.0	12.5	12.5
Moisture Variation from OMC	(Wetter than OMC)	(at OMC)	(at OMC)	(at OMC)
<b>Moisture Ratio (%)</b>	<b>101.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.25	2.25	2.28	2.28
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.27	2.29	2.27	2.29
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>99.0</b>	<b>98.5</b>	<b>100.5</b>	<b>99.5</b>

Remarks
---------

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



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 3 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176490	1979/S/176491	1979/S/176492	1979/S/176493
ID / Client ID	-	-	-	-
Lot Number	3/8/21	4/8/21	4/8/21	4/8/21
Date / Time Tested	3/08/2021 10:22	4/08/2021 11:15	4/08/2021 11:24	4/08/2021 11:33
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Road 2	Road 1	Road 1	Road 2
Chainage	m 80	m 55	m 85	m 5
Offset	m 4.5m Left of CL	m 1.0m Left of CL	m 2.5m Left of CL	m 5.0m Left of CL
Level	m 1.5m Below F/L	m 1.2m Below F/L	m 1.1m Below F/L	m 1.2m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176490	1979/S/176491	1979/S/176492	1979/S/176493
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	12.4	11.6	11.8	11.4
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	12.5	11.5	12.0	11.5
Moisture Variation from OMC	(at OMC)	(Drier than OMC)	(at OMC)	(at OMC)
<b>Moisture Ratio (%)</b>	<b>100.0</b>	<b>99.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.26	2.26	2.27	2.24
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.28	2.27	2.29	2.28
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>99.0</b>	<b>99.5</b>	<b>99.0</b>	<b>98.0</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



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 4 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176494	1979/S/176495	1979/S/176496	1979/S/176497
ID / Client ID	-	-	-	-
Lot Number	4/8/21	4/8/21	4/8/21	5/8/21
Date / Time Tested	4/08/2021 11:41	4/08/2021 11:50	4/08/2021 12:02	5/08/2021 10:41
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Road 2	Road 2	Road 2	Road 1
Chainage	m 30	m 65	m 80	m 70
Offset	m 7.5m Left of CL	m 4.5m Left of CL	m 3.5m Right of CL	m 0.5m Right of CL
Level	m 1.1m Below F/L	m 1.1m Below F/L	m 1.2m Below F/L	m 0.9m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176494	1979/S/176495	1979/S/176496	1979/S/176497
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.7	11.1	11.7	11.7
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	12.0	11.0	11.5	11.5
Moisture Variation from OMC	(Drier than OMC)	(at OMC)	(at OMC)	(at OMC)
<b>Moisture Ratio (%)</b>	<b>99.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.21	2.18	2.21	2.24
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.28	2.28	2.28	2.27
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>97.0</b>	<b>95.5</b>	<b>97.0</b>	<b>98.5</b>

Remarks
---------

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



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 5 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176498	1979/S/176499	1979/S/176500	1979/S/176501
ID / Client ID	-	-	-	-
Lot Number	5/8/21	5/8/21	5/8/21	5/8/21
Date / Time Tested	5/08/2021 10:50	5/08/2021 10:58	5/08/2021 11:04	5/08/2021 11:11
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Road 1	Road 2	Road 2	Road 2
Chainage	m 100	15	45	60
Offset	m 6.5m Left of CL	1.5m Right of CL	1.0m Left of CL	5.0m Left of CL
Level	m 0.9m Below F/L	0.8m Below F/L	0.8m Below F/L	0.9m Below F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176498	1979/S/176499	1979/S/176500	1979/S/176501
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.8	11.8	11.6	11.6
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	12.0	11.5	11.5	11.5
Moisture Variation from OMC	(at OMC)	(Wetter than OMC)	(at OMC)	(Wetter than OMC)
<b>Moisture Ratio (%)</b>	<b>100.0</b>	<b>101.0</b>	<b>100.0</b>	<b>101.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.25	2.26	2.24	2.25
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.27	2.28	2.28	2.28
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>99.0</b>	<b>99.0</b>	<b>98.5</b>	<b>98.5</b>

Remarks
---------

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



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 6 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176502	1979/S/176503	1979/S/176504	1979/S/176505
ID / Client ID	-	-	-	-
Lot Number	5/8/21	6/8/21	6/8/21	6/8/21
Date / Time Tested	5/08/2021 11:24	6/08/2021 09:31	6/08/2021 09:38	6/08/2021 09:50
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Road 2	Road 1	Road 1	Lot 394
Chainage <span style="float: right;">m</span>	75	65	80	N/W Corner
Offset <span style="float: right;">m</span>	3.0m Left of CL	CL	6.0m Left of CL	2m S, 1m E
Level <span style="float: right;">m</span>	0.8m Below F/L	0.5m Below F/L	0.5m Below F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176502	1979/S/176503	1979/S/176504	1979/S/176505
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.5	11.7	11.1	11.6
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	11.5	11.5	11.0	11.5
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)	(Wetter than OMC)
<b>Moisture Ratio (%)</b>	<b>101.0</b>	<b>101.0</b>	<b>101.0</b>	<b>101.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.25	2.27	2.26	2.27
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.28	2.27	2.28	2.28
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>98.5</b>	<b>100.0</b>	<b>99.0</b>	<b>99.5</b>

Remarks
---------

Accredited for compliance with ISO/IEC 17025 – Testing  	<div style="text-align: center;">             Approved Signatory: Dean Stimpson            Form ID: W5ASRep Rev 2         </div>
Accreditation Number: 1986 Corporate Site Number: 1979	





## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 7 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176506	1979/S/176507	1979/S/176508	1979/S/176509
ID / Client ID	-	-	-	-
Lot Number	6/8/21	6/8/21	6/8/21	6/8/21
Date / Time Tested	6/08/2021 09:59	6/08/2021 10:10	6/08/2021 10:24	6/08/2021 10:36
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Lot 393	Lot 392	Lot 391	Lot 387
Chainage	m N/W Corner	m N/W Corner	m N/W Corner	m N/E Corner
Offset	m 3m S, 4m E	m 2m S, 2m E	m 2m S, 2m E	m 4m S, 3m W
Level	m F/L	m F/L	m F/L	m F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176506	1979/S/176507	1979/S/176508	1979/S/176509
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	11.5	11.2	11.8	11.6
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	11.5	11.0	11.5	11.5
Moisture Variation from OMC	(at OMC)	(Wetter than OMC)	(Wetter than OMC)	(at OMC)
<b>Moisture Ratio (%)</b>	<b>100.0</b>	<b>101.0</b>	<b>101.0</b>	<b>100.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.28	2.26	2.28	2.26
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.28	2.28	2.29	2.28
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>100.0</b>	<b>99.0</b>	<b>100.0</b>	<b>99.0</b>

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing  	<div style="text-align: center;">             Approved Signatory: Dean Stimpson            Form ID: W5ASRep Rev 2         </div>
Accreditation Number: 1986 Corporate Site Number: 1979	



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 8 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176510	1979/S/176511	1979/S/176512	1979/S/176513
ID / Client ID	-	-	-	-
Lot Number	9/8/21	9/8/21	9/8/21	9/8/21
Date / Time Tested	9/08/2021 08:59	9/08/2021 09:10	9/08/2021 09:20	9/08/2021 09:33
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Lot 386	Lot 427	Lot 426	Lot 425
Chainage	m N/W Corner	m N/E Corner	m N/W Corner	m N/E Corner
Offset	m 3m S, 2m E	m 3m S, 4m W	m 5m S, 6m E	m 4m S, 3m W
Level	m F/L	m F/L	m F/L	m F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176510	1979/S/176511	1979/S/176512	1979/S/176513
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	10.1	9.9	10.1	9.8
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	10.0	10.0	10.0	10.0
Moisture Variation from OMC	(at OMC)	(Drier than OMC)	(at OMC)	(at OMC)
<b>Moisture Ratio (%)</b>	<b>100.0</b>	<b>99.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.25	2.24	2.27	2.28
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.30	2.28	2.28	2.29
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>98.0</b>	<b>98.0</b>	<b>99.5</b>	<b>99.5</b>

Remarks
---------

Accredited for compliance with ISO/IEC 17025 – Testing  	<div style="text-align: center;">             Approved Signatory: Dean Stimpson            Form ID: W5ASRep Rev 2         </div>
Accreditation Number: 1986 Corporate Site Number: 1979	



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 9 of 10</span>
---	--

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176514	1979/S/176515	1979/S/176516	1979/S/176517
ID / Client ID	-	-	-	-
Lot Number	9/8/21	9/8/21	9/8/21	10/8/21
Date / Time Tested	9/08/2021 09:42	9/08/2021 09:51	9/08/2021 10:01	10/08/2021 10:53
Material Source	Site Won	Site Won	Site Won	Site Won
Material Type	Bulk Fill	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	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300	300 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Road:	Lot 407	Lot 408	Lot 409	Lot 410
Chainage	m N/E Corner	m N/E Corner	m N/E Corner	m N/E Corner
Offset	m 3m S, 5m W	m 4m S, 3m W	m 2m S, 6m W	m 5m S, 12m W
Level	m F/L	m F/L	m F/L	m F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0	0
Compaction Sample Number	1979/S/176514	1979/S/176515	1979/S/176516	1979/S/176517
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<b>Moisture Test Results:</b>				
Field Moisture Content (%)	10.5	10.0	10.1	10.6
Adjusted / Moisture Variation (%)	0.0	0.0	0.0	0.0
Optimum Moisture Content (%)	10.5	10.0	10.0	10.5
Moisture Variation from OMC	(Drier than OMC)	(at OMC)	(Drier than OMC)	(Wetter than OMC)
<b>Moisture Ratio (%)</b>	<b>99.0</b>	<b>100.0</b>	<b>99.0</b>	<b>101.0</b>
<b>Density Test Results:</b>				
Field Wet Density (t/m <sup>3</sup> )	2.25	2.28	2.25	2.27
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.27	2.28	2.28	2.28
Density Ratio Required (%)	95	95	95	95
<b>Hilf Density Ratio (%)</b>	<b>99.0</b>	<b>100.0</b>	<b>99.0</b>	<b>99.0</b>

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing  	<div style="text-align: center;">             Approved Signatory: Dean Stimpson            Form ID: W5ASRep Rev 2         </div>
Accreditation Number: 1986 Corporate Site Number: 1979	



## WET DENSITY RATIO REPORT

<b>Client:</b> Shadforth Civil Pty Ltd <b>Client Address:</b> 99 Sandalwood Lane, Forest Glen <b>Project:</b> Woodlinks Stage 22 <b>Location:</b> Collingwood Park <b>Component:</b> Bulk Earthworks <b>Area Description:</b> Stage 22	<b>Report Number:</b> 1979/R/63779-1 <b>Project Number:</b> 1979/P/2090 <b>Lot Number:</b> 2/8/21 <b>Internal Test Request:</b> 1979/T/34661 <b>Client Reference/s:</b> Bulk Earthworks <b>Report Date / Page:</b> 15/12/2021 <span style="float: right;">Page 10 of 10</span>
---	---

<b>Test Procedures:</b>	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
-------------------------	--

Sample Number	1979/S/176518	1979/S/176519	
ID / Client ID	-	-	
Lot Number	10/8/21	10/8/21	
Date / Time Tested	10/08/2021 11:01	10/08/2021 11:12	
Material Source	Site Won	Site Won	
Material Type	Bulk Fill	Bulk Fill	
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	
Depths: Test / Nom / Actual (mm)	300 / 300 / 300	300 / 300 / 300	
Standard or Modified	Standard	Standard	
Road:	Lot 404	Lot 405	
Chainage <span style="float: right;">m</span>	N/E Corner	N/E Corner	
Offset <span style="float: right;">m</span>	3m S, 4m W	5m S, 7m W	
Level <span style="float: right;">m</span>	F/L	F/L	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	1979/S/176518	1979/S/176519	
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	
<b>Moisture Test Results:</b>			
Field Moisture Content (%)	10.6	10.7	
Adjusted / Moisture Variation (%)	0.0	0.0	
Optimum Moisture Content (%)	10.5	10.5	
Moisture Variation from OMC	(Wetter than OMC)	(Wetter than OMC)	
<b>Moisture Ratio (%)</b>	<b>102.0</b>	<b>101.0</b>	
<b>Density Test Results:</b>			
Field Wet Density (t/m <sup>3</sup> )	2.24	2.21	
Adj/Peak Conv Wet Density (t/m <sup>3</sup> )	2.30	2.29	
Density Ratio Required (%)	95	95	
<b>Hilf Density Ratio (%)</b>	<b>97.5</b>	<b>96.5</b>	

Remarks
---------

<div style="text-align: center;">Accredited for compliance with ISO/IEC 17025 – Testing</div>  <p>Accreditation Number: 1986 Corporate Site Number: 1979</p>	  Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2
--	--

APPENDIX

# B

LOT CERTIFICATES



Ref: 1979/L/1

Project Ref: 1979/P/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 384, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 385, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 386, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 387, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 388, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 391, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 392, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 393, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 394, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 395, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 396, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 398, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 403, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 404, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 405, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 406, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 407, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 408, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 409, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 410, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 413, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 414, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 419, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 420, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 421, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 422, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 423, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 424, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 425, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 426, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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/2090

Construction Sciences Pty Ltd  
ABN 74 128 806 735

13/01/2022

1 Fox Road  
Acacia Ridge QLD 4110  
Australia

Shadforths Civil  
99 Sandalwood Lane  
Forest Glen Qld 4556

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 427, WOODLINKS VILLAGE, COLLINGWOOD PARK**

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

1 Fox Road  
Acacia Ridge, QLD 4110

Telephone: (07) 3320 8500  
Facsimile: (07) 3320 8599

[brisbane@constructionsciences.net](mailto:brisbane@constructionsciences.net)  
[www.constructionsciences.net](http://www.constructionsciences.net)