WORKS INSPECTION & TESTING

Bulk Earthworks

PROPOSED RESIDENTIAL DEVELOPMENT

Woodlinks Estate, Future Stage 10 - Bulk Earthworks

JOB NO: P2194 comp01

Prepared for Shadforths Civil

10th March 2023

Construction Sciences

Document Information

Prepared for	Shadforths Civil
Project Name	Proposed Residential Development – Woodlinks Estate, Future Stage 10 Bulk Earthworks
Job Number	P2194
Date	10th March 2022

Document Control

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Report ID	Date	Author		Reviewer			
P2194 comp 03	10/03/2023	Wayne Gorman	WG	Dean Stimpson			DS
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Construction Sciences

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 April and September 2022.

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 Pty Ltd** 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

SPECIFICATIONS	
Item	***Minimum Compaction Requirement***
Bulk Earthworks Fill	*95% Wet Density Ratio - Standard*

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 to gravelly SANDS.

The material used in the bulk earthworks filling was sourced from imported fill & site won material.

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”.

CONCLUSION

We confirm that:

(a) Our representative was in full time site attendance whilst bulk earthworks filling was in progress between April and September 2022 at Woodlinks Estate, Stage 10 Future Earthworks.

(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

APPENDIX A

BULK EARTHWORKS

Construction Sciences

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.

LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED EARTHWORKS PAD SETBACK LINE
- PROPOSED SLEEPER RETAINING WALL
- EXISTING SLEEPER RETAINING WALL
- PROPOSED PAD LEVEL (PL) (INCLUDES TOPSOIL PLACEMENT)
- EXISTING SURFACE LEVEL (ESL)
- FUTURE SURFACE LEVEL
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- INDICATIVE DRIVEWAY LOCATIONS
- ZERO LOT BOUNDARY
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING ROOFWATER DRAINAGE PIPE
- EXISTING SEWERAGE MAIN
- EXISTING WATER MAIN
- EXISTING WATER CONDUIT
- EXISTING ELECTRICAL CABLE U/G
- EXISTING ELECTRICAL CABLE O/H
- EXISTING GAS MAIN
- EXISTING DRAIN

THE APPLICANT MUST SUBMIT TO THE ASSESSMENT MANAGER A COPY OF ALL RELEVANT BUILDING APPROVALS AND ASSOCIATED DESIGN AND CONSTRUCTION FOR ALL EARTH RETAINING STRUCTURES THAT ARE NOT APPROVED BY THIS DEVELOPMENT PERMIT AND ARE CONSIDERED BUILDING WORKS IN ACCORDANCE WITH BUILDING ACT 1975.

BATTER 1:6 OR STEEPER ARE TO BE VEGETATED AND CERTIFIED AS STABLE BY AN EXPERIENCED AND SUITABLY QUALIFIED RPEQ ENGINEER.

RETAINING WALLS DO NOT FORM PART OF THIS APPROVAL.

BULK EARTHS MUST REMAIN WITHIN SITE BOUNDARY

RETAINING WALL TO EXTEND OUT 2 PANELS

DRIVEWAY 02

ROAD 12

ROAD 14

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	17.06.22	CL	AK	ISSUED FOR CONSTRUCTION

RECEIVED
By Document Control at 10:24 am, Jul 08, 2022

DRAWN: AK

STATUS: ISSUED FOR CONSTRUCTION

DESIGN: CL

APPROVED: SCOTT THOMAS RPEQ 04618
S. Thomas
FOR AND ON BEHALF OF PEAKURBAN PTY LTD

PEAKURBAN Achieve more.
ENQUIRIES@PEAKURBAN.COM.AU

SCALE: 1:500 / 1:1000 (10 5 0 10 20) A1 A3

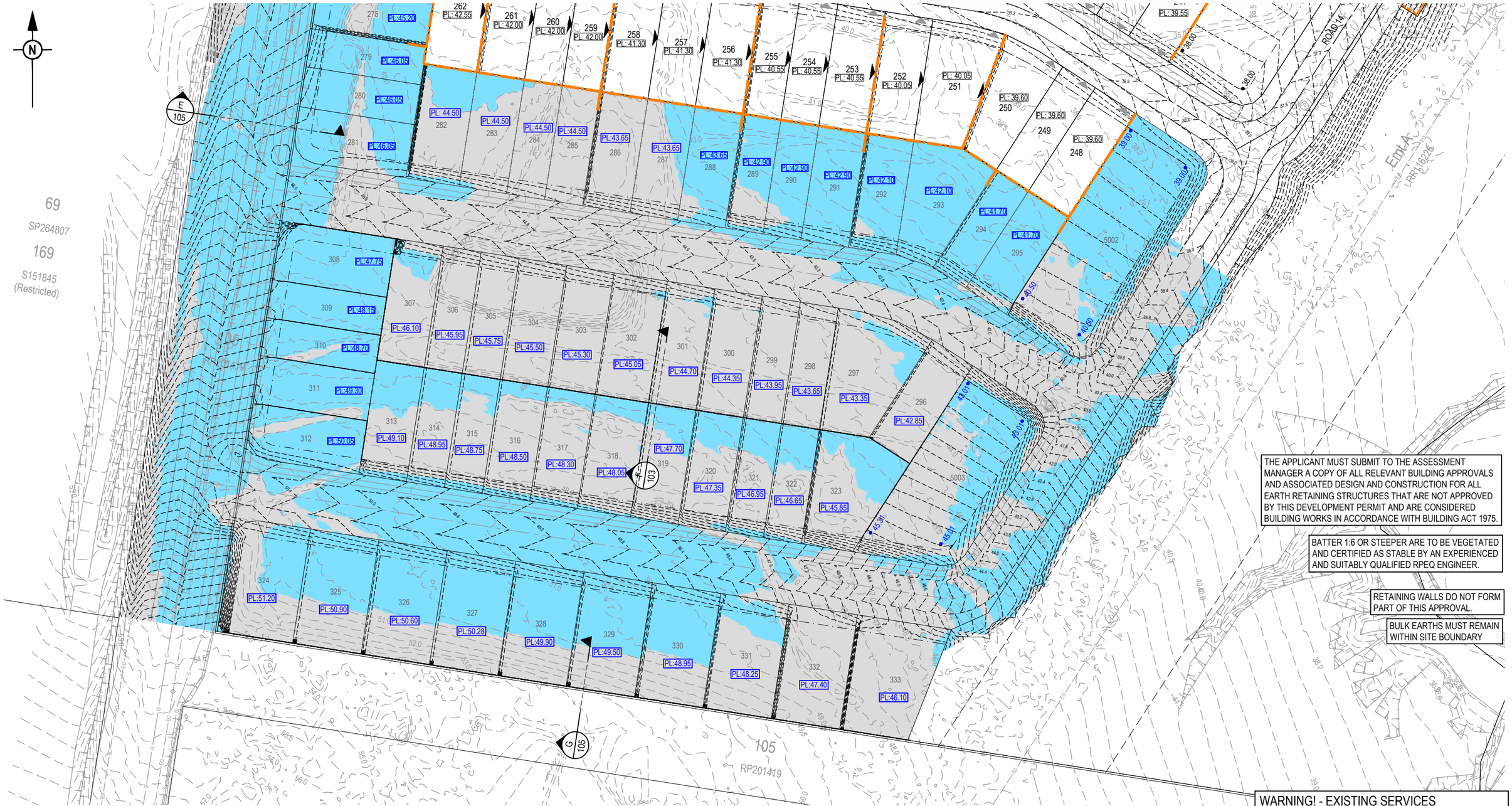
CLIENT: CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED

ASSOCIATED CONSULTANT: SAUNDERS HAVILL GROUP PH: 1300 123 744

PROJECT NAME: WOODLINKS VILLAGE - STAGE 10
COLLINGWOOD DRIVE, COLLINGWOOD PARK

DRAWING TITLE: BULK EARTHWORKS BORROW LAYOUT PLAN SHEET 1 OF 2

PROJECT No.	DRAWING No.	REVISION
18-0176	401	A



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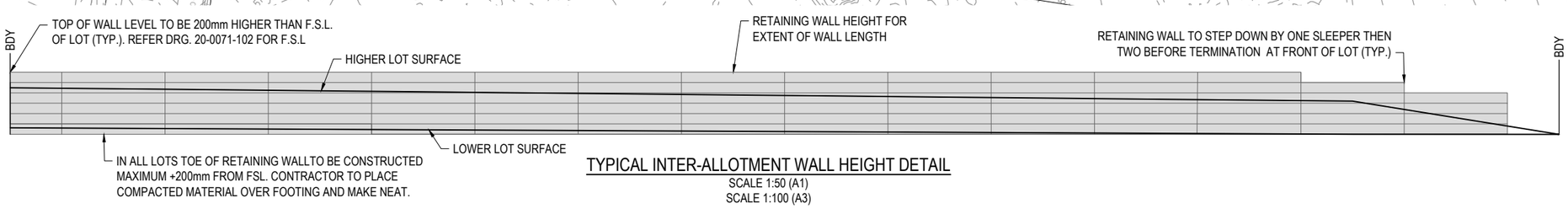
BULK EARTHS MUST REMAIN WITHIN SITE BOUNDARY



TYPICAL INTER-ALLOTMENT WALL HEIGHT DETAIL

SCALE 1:50 (A1)
SCALE 1:100 (A3)

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SCALE: 1:500 / 1:1000 — 10 5 0 10 20 — A1 / A3

CLIENT: CANBERRA ESTATES CONSORTIUM NO. 36 PTY LIMITED

ASSOCIATED CONSULTANT: SAUNDERS HAVILL GROUP PH: 1300 123 744

PROJECT NAME: WOODLINKS VILLAGE - STAGE 10
COLLINGWOOD DRIVE, COLLINGWOOD PARK

DRAWING TITLE: BULK EARTHWORKS BORROW LAYOUT PLAN SHEET 2 OF 2

PROJECT No.	DRAWING No.	REVISION
18-0176	402	A

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WET DENSITY RATIO REPORT

Client:	Shadforth Civil Pty Ltd	Report Number:	1979/R/90216-1
Client Address:	99 Sandalwood Lane, Forest Glen	Project Number:	1979/P/2194
Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/46405
Component:	Bulk Earthworks	Client Reference/s:	WR001521
Area Description:	Future Stages	Report Date / Page:	6/02/2023 Page 1 of 8

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/240177	1979/S/240178	1979/S/240179	1979/S/240180
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022 09:15	6/12/2022 09:20	6/12/2022 09:25	6/12/2022 09:30
Material Source	On-Site	On-Site	On-Site	On-Site
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)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 269	Lot 270	Lot 271	Lot 272
	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr
	5m S, 8m W	6m S, 5m W	7m S, 11m W	5m S, 7m W
Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	2	0
Compaction Sample Number	1979/S/240177	1979/S/240178	1979/S/240179	1979/S/240180
Sample Description	Sandy Clay - Brown	Sandy Clay - Brown	Clayey Sand	Sandy Clay - Brown
Moisture Test Results:				
Field Moisture Content (%)	12.1	11.9	12.3	13.4
Adjusted / Moist. Variation (%)	**0.0**	**1.5**	**1.5**	**1.5**
Optimum Moisture Content (%)	12.5	13.5	14.0	15.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	**98.5**	**89.0**	**88.5**	**89.5**
Density Test Results:				
Field Wet Density (t/m³)	2.03	2.09	2.08	2.07
Adj/Peak Conv Wet Density (t/m³)	2.07	2.16	2.05	2.16
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	**98.0**	**97.0**	**101.5**	**96.0**

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing

NATA

Accreditation Number: 1986
Corporate Site Number: 1979

Approved Signatory: Dean Stimpson
Form ID: W5ASMRRep Rev 2

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Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/46405
Component:	Bulk Earthworks	Client Reference/s:	WR001521
Area Description:	Future Stages	Report Date / Page:	6/02/2023 Page 2 of 8

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/240181	1979/S/240182	1979/S/240183	1979/S/240184
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022 09:35	6/12/2022 09:40	6/12/2022 09:45	6/12/2022 09:50
Material Source	On-Site	On-Site	On-Site	On-Site
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)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 273	Lot 274	Lot 275	Lot 276
	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr
	3m S, 6m W	6m S, 9m W	4m S, 7m W	6m S, 8m W
Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	2	0
Compaction Sample Number	1979/S/240181	1979/S/240182	1979/S/240183	1979/S/240184
Sample Description	Sandsy Clay - Brown	Sandy Clay - Brown	Sandy Clay - Brown	Sandy Clay - Brown
Moisture Test Results:				
Field Moisture Content (%)	13.0	11.2	15.0	14.0
Adjusted / Moist. Variation (%)	**2.0**	**1.5**	**2.0**	**2.0**
Optimum Moisture Content (%)	15.0	13.0	17.0	16.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	**86.5**	**87.5**	**87.0**	**86.0**
Density Test Results:				
Field Wet Density (t/m³)	2.02	2.10	2.07	2.09
Adj/Peak Conv Wet Density (t/m³)	2.11	2.06	2.12	2.07
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	**96.0**	**101.5**	**97.5**	**101.0**

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Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/46405
Component:	Bulk Earthworks	Client Reference/s:	WR001521
Area Description:	Future Stages	Report Date / Page:	6/02/2023 Page 3 of 8

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/240185	1979/S/240186	1979/S/240187	1979/S/240188
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022 09:55	6/12/2022 10:00	6/12/2022 10:05	6/12/2022 10:10
Material Source	On-Site	On-Site	On-Site	On-Site
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)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 277	Lot 278	Lot 279	Lot 280
	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr
	5m S, 10m W	5m S, 12m W	6m S, 15m W	4m S, 5m W
Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	1	0	2	0
Compaction Sample Number	1979/S/240185	1979/S/240186	1979/S/240187	1979/S/240188
Sample Description	Sandy Clay - Brown	Sandy Clay - Brown	Clayey Sand	Clayey Sand
Moisture Test Results:				
Field Moisture Content (%)	14.3	14.5	14.0	13.5
Adjusted / Moist. Variation (%)	**1.5**	**1.5**	**1.5**	**-0.5**
Optimum Moisture Content (%)	16.0	16.0	15.5	13.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)
Moisture Ratio (%)	**89.5**	**89.5**	**89.0**	**104.0**
Density Test Results:				
Field Wet Density (t/m³)	2.09	2.06	2.10	2.10
Adj/Peak Conv Wet Density (t/m³)	2.06	2.05	2.07	2.11
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	**101.5**	**100.5**	**101.5**	**99.5**

Remarks

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Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/46405
Component:	Bulk Earthworks	Client Reference/s:	WR001521
Area Description:	Future Stages	Report Date / Page:	6/02/2023 Page 4 of 8

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/240189	1979/S/240190	1979/S/240191	1979/S/240192
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022 10:15	6/12/2022 10:20	6/12/2022 10:25	6/12/2022 10:30
Material Source	On-Site	On-Site	On-Site	On-Site
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)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 281	Lot 308	Lot 309	Lot 310
	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr
	3m S, 9m W	7mS, 5m W	6m S, 8m W	4m S, 9m W
Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
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/240189	1979/S/240190	1979/S/240191	1979/S/240192
Sample Description	Sandy Clay - Brown	Clayey Sand	Clayey Sand	Clayey Sand
Moisture Test Results:				
Field Moisture Content (%)	13.0	13.5	14.3	13.6
Adjusted / Moist. Variation (%)	**2.0**	**0.0**	**2.0**	**0.0**
Optimum Moisture Content (%)	15.0	13.5	16.0	14.0
Moisture Variation from OMC	(Drier than OMC)	(at OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	**87.0**	**100.0**	**88.5**	**98.5**
Density Test Results:				
Field Wet Density (t/m³)	2.13	2.14	2.12	2.13
Adj/Peak Conv Wet Density (t/m³)	2.10	2.16	2.14	2.06
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	**101.5**	**99.5**	**99.0**	**103.0**

Remarks

NATA

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Approved Signatory: Dean Stimpson
Form ID: W5ASMRRep Rev 2

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Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/46405
Component:	Bulk Earthworks	Client Reference/s:	WR001521
Area Description:	Future Stages	Report Date / Page:	6/02/2023 Page 5 of 8

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/240193	1979/S/240194	1979/S/240195	1979/S/240196
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022 10:35	6/12/2022 10:40	6/12/2022 10:45	6/12/2022 10:50
Material Source	On-Site	On-Site	On-Site	On-Site
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)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 311	Lot 312	Lot 282	Lot 283
	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr
	6m S, 14m W	5m S, 8m W	12m S, 5m W	9m S, 4m W
Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	2	2	2	2
Compaction Sample Number	1979/S/240193	1979/S/240194	1979/S/240195	1979/S/240196
Sample Description	Clayey Sand	Clayey Sand	Clayey Sand	Clayey Sand
Moisture Test Results:				
Field Moisture Content (%)	14.0	14.8	13.9	12.1
Adjusted / Moist. Variation (%)	**2.0**	**2.0**	**1.5**	**2.0**
Optimum Moisture Content (%)	16.0	16.5	15.5	14.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	**88.0**	**89.0**	**89.5**	**86.5**
Density Test Results:				
Field Wet Density (t/m³)	2.15	2.13	2.16	2.18
Adj/Peak Conv Wet Density (t/m³)	2.13	2.10	2.14	2.24
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	**101.0**	**101.0**	**101.0**	**97.5**

Remarks

Accredited for compliance with ISO/IEC 17025 – Testing

NATA

Accreditation Number: 1986
Corporate Site Number: 1979

Approved Signatory: Dean Stimpson
Form ID: W5ASMRRep Rev 2

Construction Sciences

Construction Sciences Pty Ltd
ABN: 74 128 806 735

Address:
57 Mudgee Street,
Kingston QLD 4114

Laboratory: **Brisbane South Laboratory**
Phone: 1300 165 769
Fax:
Email: Brisbane@constructionsciences.net

WET DENSITY RATIO REPORT

Client:	Shadforth Civil Pty Ltd	Report Number:	1979/R/90216-1
Client Address:	99 Sandalwood Lane, Forest Glen	Project Number:	1979/P/2194
Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/46405
Component:	Bulk Earthworks	Client Reference/s:	WR001521
Area Description:	Future Stages	Report Date / Page:	6/02/2023 Page 6 of 8

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/240197	1979/S/240198	1979/S/240199	1979/S/240200
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022 10:55	6/12/2022 11:00	6/12/2022 11:05	6/12/2022 11:10
Material Source	On-Site	On-Site	On-Site	On-Site
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)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 284	Lot 285	Lot 286	Lot 287
	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr
	15m S, 3m W	5m S, 4m W	7m S, 7m W	15m S, 3m W
Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	5	1	0	4
Compaction Sample Number	1979/S/240197	1979/S/240198	1979/S/240199	1979/S/240200
Sample Description	Clayey Sand	Clayey Sand	Clayey Sand	Clayey Sand
Moisture Test Results:				
Field Moisture Content (%)	13.5	12.9	13.5	13.4
Adjusted / Moist. Variation (%)	**1.5**	**2.0**	**1.5**	**0.0**
Optimum Moisture Content (%)	15.5	15.0	15.0	13.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Wetter than OMC)
Moisture Ratio (%)	**88.0**	**86.5**	**90.0**	**101.0**
Density Test Results:				
Field Wet Density (t/m³)	2.14	2.12	2.15	2.14
Adj/Peak Conv Wet Density (t/m³)	2.13	2.08	2.13	2.11
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	**100.5**	**102.0**	**101.0**	**101.5**

Remarks

NATA

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Laboratory: **Brisbane South Laboratory**
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Email: Brisbane@constructionsciences.net

WET DENSITY RATIO REPORT

Client:	Shadforth Civil Pty Ltd	Report Number:	1979/R/90216-1
Client Address:	99 Sandalwood Lane, Forest Glen	Project Number:	1979/P/2194
Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/46405
Component:	Bulk Earthworks	Client Reference/s:	WR001521
Area Description:	Future Stages	Report Date / Page:	6/02/2023 Page 7 of 8

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/240201	1979/S/240202	1979/S/240203	1979/S/240204
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022 11:15	6/12/2022 11:20	6/12/2022 11:25	6/12/2022 11:30
Material Source	On-Site	On-Site	On-Site	On-Site
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)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 288	Lot 289	Lot 290	Lot 291
	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr
	14m S, 7m W	16m S, 4m W	8m S, 5m	10m S, 3m W
Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	1	2	0
Compaction Sample Number	1979/S/240201	1979/S/240202	1979/S/240203	1979/S/240204
Sample Description	Clayey Sand	Clayey Sand	Clayey Sand	Clayey Sand
Moisture Test Results:				
Field Moisture Content (%)	12.3	13.5	13.7	13.6
Adjusted / Moist. Variation (%)	**2.0**	**1.5**	**2.0**	**1.5**
Optimum Moisture Content (%)	14.5	15.0	15.5	15.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	**86.0**	**90.5**	**88.0**	**90.5**
Density Test Results:				
Field Wet Density (t/m³)	2.14	2.12	2.11	2.17
Adj/Peak Conv Wet Density (t/m³)	2.18	2.12	2.13	2.23
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	**98.0**	**100.0**	**99.0**	**97.0**

Remarks

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WET DENSITY RATIO REPORT

Client:	Shadforth Civil Pty Ltd	Report Number:	1979/R/90216-1
Client Address:	99 Sandalwood Lane, Forest Glen	Project Number:	1979/P/2194
Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/46405
Component:	Bulk Earthworks	Client Reference/s:	WR001521
Area Description:	Future Stages	Report Date / Page:	6/02/2023 Page 8 of 8

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/240205	1979/S/240206	1979/S/240207	1979/S/240208
ID / Client ID	-	-	-	-
Lot Number	-	-	-	-
Date / Time Tested	6/12/2022 11:35	6/12/2022 11:40	6/12/2022 11:45	6/12/2022 11:50
Material Source	On-Site	On-Site	On-Site	On-Site
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)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard	Standard
Location	Lot 292	Lot 293	Lot 294	Lot 295
	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr	Offset Nth/East Cnr
	10m S, 5m W	12m S, 4m W	4m S, 3m W	12m S, 4m W
Level	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL	0.2m Below FSL
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	1	0	0
Compaction Sample Number	1979/S/240205	1979/S/240206	1979/S/240207	1979/S/240208
Sample Description	Clay	Clayey Sand	Clayey Sand	Clayey Sand
Moisture Test Results:				
Field Moisture Content (%)	12.8	13.3	13.0	12.5
Adjusted / Moist. Variation (%)	**1.5**	**2.0**	**2.0**	**2.0**
Optimum Moisture Content (%)	14.5	15.0	15.0	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	**89.0**	**88.0**	**87.0**	**86.0**
Density Test Results:				
Field Wet Density (t/m³)	2.18	2.15	2.17	2.13
Adj/Peak Conv Wet Density (t/m³)	2.26	2.14	2.21	2.12
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	**96.5**	**100.0**	**98.0**	**100.5**

Remarks

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WET DENSITY RATIO REPORT

Client:	Shadforth Civil Pty Ltd	Report Number:	1979/R/95625-1
Client Address:	99 Sandalwood Lane, Forest Glen	Project Number:	1979/P/2194
Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/45760
Supplied To:	Shadforth Civil Pty Ltd	Client Reference/s:	24/11/2022
Area Description:		Report Date / Page:	10/03/2023 Page 1 of 1

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/236303	1979/S/236304		
ID / Client ID				
Lot Number	-	-		
Date / Time Tested	24/11/2022 08:00	24/11/2022 08:15		
Material Source	On-Site	On-Site		
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)	275 / 200 / 300	275 / 300 / 300		
Standard or Modified	Standard	Standard		
Location	Lot 5002	Lot 5003		
	N/E Corner	N/E Corner		
	12m S, 5m W	7m S, 4m W		
Level	F/L	F/L		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/236303	1979/S/236304		
Sample Description	Sandy Clay - Brown	Sandy Clay - Brown		
Moisture Test Results:				
Field Moisture Content (%)	15.4	16.6		
Adjusted / Moist. Variation (%)	**2.0**	**1.5**		
Optimum Moisture Content (%)	17.0	18.0		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
Moisture Ratio (%)	**89.5**	**91.0**		
Density Test Results:				
Field Wet Density (t/m³)	2.05	2.09		
Adj/Peak Conv Wet Density (t/m³)	2.01	2.14		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	**102.0**	**98.0**		

Remarks

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WET DENSITY RATIO REPORT

Client:	Shadforth Civil Pty Ltd	Report Number:	1979/R/95628-1
Client Address:	99 Sandalwood Lane, Forest Glen	Project Number:	1979/P/2194
Project:	Woodlinks Stage 10	Lot Number:	
Location:	Collingwood Park	Internal Test Request:	1979/T/45773
Component:	Bulk Earthworks	Client Reference/s:	25/11/2022
Area Description:	Stage 10	Report Date / Page:	10/03/2023 Page 1 of 1

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1

Sample Number	1979/S/236361	1979/S/236362		
ID / Client ID	-	-		
Lot Number	-	-		
Date / Time Tested	25/11/2022 14:20	25/11/2022 14:30		
Material Source	On-Site	On-Site		
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)	275 / 300 / 300	275 / 300 / 300		
Standard or Modified	Standard	Standard		
Location	Lot 320	Lot 322		
	N/E Corner	N/E Corner		
	4m S, 3m W	5m S, 5m W		
Level	F/L	F/L		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	4	0		
Compaction Sample Number	1979/S/236361	1979/S/236362		
Sample Description	Sandy Clay, Brown	Sandy Clay, Brown		
Moisture Test Results:				
Field Moisture Content (%)	12.0	13.2		
Adjusted / Moist. Variation (%)	**2.0**	**1.5**		
Optimum Moisture Content (%)	14.0	15.0		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
Moisture Ratio (%)	**85.5**	**89.0**		
Density Test Results:				
Field Wet Density (t/m³)	2.08	2.01		
Adj/Peak Conv Wet Density (t/m³)	2.06	2.04		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	**101.0**	**98.0**		

Remarks

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Corporate Site Number: 1979

Approved Signatory: Dean Stimpson
Form ID: W5ASMRRep Rev 2

APPENDIX B

LOT CERTIFICATES

Construction Sciences

Project Ref: 1979/P2194

Construction Sciences Pty Ltd
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57 Mudgee Street
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Phone: 61 7 3320 8500
www.constructionsciences.net

27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 269, WOODLINKS FUTURE STAGES EARTHWORKS, 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

Project Ref: 1979/P2194

Construction Sciences Pty Ltd
ABN 74 128 806 735

57 Mudgee Street
Kingston QLD 4114
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 270, WOODLINKS FUTURE STAGES EARTHWORKS, 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”.

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Yours faithfully

Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Project Ref: 1979/P2194

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ABN 74 128 806 735

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Australia

Phone: 61 7 3320 8500
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27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 271, WOODLINKS FUTURE STAGES EARTHWORKS, 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

Project Ref: 1979/P2194

Construction Sciences Pty Ltd
ABN 74 128 806 735

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Kingston QLD 4114
Australia

Phone: 61 7 3320 8500
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27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 272, WOODLINKS FUTURE STAGES EARTHWORKS, 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

Project Ref: 1979/P2194

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27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 273, WOODLINKS FUTURE STAGES EARTHWORKS, 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

Project Ref: 1979/P2194

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27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 274, WOODLINKS FUTURE STAGES EARTHWORKS, 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

Project Ref: 1979/P2194

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Phone: 61 7 3320 8500
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27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 275, WOODLINKS FUTURE STAGES EARTHWORKS, 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

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27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 276, WOODLINKS FUTURE STAGES EARTHWORKS, 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

Project Ref: 1979/P2194

Construction Sciences Pty Ltd
ABN 74 128 806 735

57 Mudgee Street
Kingston QLD 4114
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 277, WOODLINKS FUTURE STAGES EARTHWORKS, 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”.

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Yours faithfully

Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Project Ref: 1979/P2194

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Dear Sir/Madam,

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LOT 281, WOODLINKS FUTURE STAGES EARTHWORKS, COLLINGWOOD PARK

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LOT 307, WOODLINKS FUTURE STAGES EARTHWORKS, COLLINGWOOD PARK

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LOT 309, WOODLINKS FUTURE STAGES EARTHWORKS, 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”.

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Yours faithfully

Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Project Ref: 1979/P2194

Construction Sciences Pty Ltd
ABN 74 128 806 735

57 Mudgee Street
Kingston QLD 4114
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

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LOT 333, WOODLINKS FUTURE STAGES EARTHWORKS, COLLINGWOOD PARK

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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

Project Ref: 1979/P2194

Construction Sciences Pty Ltd
ABN 74 128 806 735

57 Mudgee Street
Kingston QLD 4114
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 5002, WOODLINKS FUTURE STAGES EARTHWORKS, 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”.

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Wayne Gorman
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27/02/2023

Shadforths Civil
99 Sandalwood Lane
Forest Glen Qld 4556

Dear Sir/Madam,

INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 5003, WOODLINKS FUTURE STAGES EARTHWORKS, 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”.

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Yours faithfully

Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Contact

57 Mudgee Street
Kingston, QLD 4114

Telephone: (07) 02 2800 6505

brisbane@constructionsciences.net
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