

**WORKS
INSPECTION &
TESTING
Bulk Earthworks**

**PROPOSED
RESIDENTIAL
DEVELOPMENT**

The Banks Stage 2

**370-398 LOGAN
RESERVE ROAD**

JOB NO: P2000 comp01



Prepared for BMD Urban
23rd March 2021

Document Information

Prepared for BMD Urban
 Project Name Proposed Residential Development – The Banks Stage 2

Job Number P 2000
 Date 23rd March 2021

Document Control

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Report ID	Date	Author	Reviewer			
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Distributed to:			No.	Original	Copy	Electronic
BMD Urban			1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Table of Contents

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

Appendices

Appendix A Bulk Earthworks - Compaction

Appendix B - Lot Letters

INTRODUCTION

Construction Sciences was commissioned by **BMD Urban** to carry out the geotechnical inspection and testing required for the proposed development at The Banks Stage 2 - 370-398 Logan Reserve Road, which was carried out between 23rd November 2020 and 9th February 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, **Empower Engineers and Project Managers** and to the specifications of the local authority, **Logan City Council**.

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

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

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

SITE WORKS - BULK EARTHWORKS

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

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

The natural ground in the areas of filling generally comprised silty 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 summary of the test results is included as Table 1. A total of 68 field density tests were carried out throughout the earthworks. The average wet density ratio was recorded to be 98.5%. The maximum wet density ratio was 101% and minimum was 95%. The average moisture variation was 1.74%.

CONCLUSION


We confirm that:

- (a) Our representative was in full time site attendance whilst bulk earthworks filling was in progress between 23rd November 2020 and 9th February 2021 at The Banks Stage 2 - 270-298 Logan Reserve Road.
- (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: BMD Urban	JOB No.: P 2000
	PROJECT: The Banks Stage 2	SKETCH No.: SK 1
	TEST ITEM: SITE PHOTOS	DATE ISSUED: 23/03/2021

Client: BMD Urban Pty Ltd	Project: 1979/P/2000 - The Banks, Stage 2
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Sample Client Reference	Sample Number	Sample Date/Time	Source	Material	Easting	Northing	RL	Allotment	Wet Density Ratio	Moisture Variation
EW-01	1979/S/146778	23/11/2020 1:42:00 PM	On-Site	Bulk Fill	511824	6934221	0.2m Below F/L	131	99.5	1.5
EW-02	1979/S/146905	24/11/2020 10:21:00 AM	On-Site	Bulk Fill	511758	6934221	0.2m Below F/L	130	99.0	2.0
EW-03	1979/S/146906	24/11/2020 1:26:00 PM	On-Site	Bulk Fill	511716	6934166	F/L	143	99.5	2.0
EW-04	1979/S/146907	24/11/2020 1:38:00 PM	On-Site	Bulk Fill	511746	6934164	0.2m Below F/L	144	100.0	2.0
EW-05	1979/S/147096	26/11/2020 9:58:00 AM	On-Site	Bulk Fill	511496	6934281	1.8m Below F/L	Western Drain	100.0	0.5
EW-06	1979/S/147097	26/11/2020 10:09:00 AM	On-Site	Bulk Fill	511499	6934249	0.4m Below F/L	Western Drain	95.5	0.0
EW-07	1979/S/147098	26/11/2020 1:58:00 PM	On-Site	Bulk Fill	511494	6934227	0.6m Below F/L	Western Drain	98.0	2.0
EW-08	1979/S/147220	27/11/2020 1:32:00 PM	On-Site	Bulk Fill	1492.4	34284.0	12.4	Western Drain	100.0	2.0
EW-09	1979/S/147221	27/11/2020 1:43:00 PM	On-Site	Bulk Fill	1494.4	34260.7	12.6	Western Drain	99.5	1.5
EW-10	1979/S/147222	27/11/2020 1:55:00 PM	On-Site	Bulk Fill	1484.9	34218.1	12.5	Western Drain	95.0	2.0
EW-11	1979/S/147351	1/12/2020 1:30:00 PM	On-Site	Bulk Fill	1491.5	34245	13.3	West Fill Area	97.5	1.5
EW-12	1979/S/147352	1/12/2020 1:38:00 PM	On-Site	Bulk Fill	1472.2	34222.8	12.9	West Fill Area	98.5	1.5
EW-13	1979/S/147353	1/12/2020 1:45:00 PM	On-Site	Bulk Fill	1472.0	34250.4	12.9	West Fill Area	98.5	0.5
EW-14	1979/S/147354	1/12/2020 1:55:00 PM	On-Site	Bulk Fill	1469.2	34266.9	12.9	West Fill Area	96.0	0.5
EW-15	1979/S/147355	1/12/2020 2:03:00 PM	On-Site	Bulk Fill	1466.1	34285.7	13.2	West Fill Area	99.0	0.0
EW-16	1979/S/148192	11/12/2020 1:29:00 PM	On-Site	Bulk Fill	511473	6934231	14.4	Western Drain	95.0	2.0
EW-17	1979/S/148193	11/12/2020 1:35:00 PM	On-Site	Bulk Fill	511473	6934215	14.5	Western Drain	97.0	2.0
EW-18	1979/S/148194	11/12/2020 1:40:00 PM	On-Site	Bulk Fill	511475	6934202	14.5	Western Drain	99.0	2.0
EW-19	1979/S/148195	11/12/2020 1:46:00 PM	On-Site	Bulk Fill	511494	6934194	14.4	Western Drain	101.0	2.0
EW-20	1979/S/148196	11/12/2020 1:52:00 PM	On-Site	Bulk Fill	511502	6934208	14.2	Western Drain	101.0	2.0
EW-21	1979/S/148197	11/12/2020 2:00:00 PM	On-Site	Bulk Fill	511490	6934225	14.2	Western Drain	99.0	1.0
EW-22	1979/S/148869	8/01/2021 10:30:00 AM	On-Site	Bulk Fill	153.11584	-27.71576	F/L	Stage 4	96.0	2.0
EW-23	1979/S/148870	8/01/2021 10:40:00 AM	On-Site	Bulk Fill	153.11592	-27.71546	F/L	Stage 4	95.5	2.0
EW-24	1979/S/148871	8/01/2021 10:49:00 AM	On-Site	Bulk Fill	153.11604	-27.71515	F/L	Stage 4	95.5	1.5
EW-25	1979/S/148872	8/01/2021 11:04:00 AM	On-Site	Bulk Fill	153.11609	-27.71479	F/L	Stage 4	96.0	1.5
EW-26	1979/S/148873	8/01/2021 11:22:00 AM	On-Site	Bulk Fill	153.11637	-27.71459	F/L	Stage 4	100.0	2.0
EW-27	1979/S/148874	8/01/2021 11:36:00 AM	On-Site	Bulk Fill	153.11615	-27.71524	F/L	Stage 4	95.5	2.0
EW-28	1979/S/148721	6/01/2021 12:02:00 PM	On-Site	Bulk Fill	511483	6934196	F/L	Western Fill Area	97.5	2.0
EW-29	1979/S/148722	6/01/2021 12:10:00 PM	On-Site	Bulk Fill	511471	6934191	F/L	Western Fill Area	98.0	2.0
EW-30	1979/S/148723	6/01/2021 12:15:00 PM	On-Site	Bulk Fill	511460	6934192	F/L	Western Fill Area	96.5	2.0
EW-31	1979/S/148724	6/01/2021 12:20:00 PM	On-Site	Bulk Fill	511462	6934205	F/L	Western Fill Area	97.0	2.0
EW-32	1979/S/148725	6/01/2021 12:25:00 PM	On-Site	Bulk Fill	511450	6934175	F/L	Western Fill Area	100.0	2.0
EW-33	1979/S/151091	10/12/2020 10:45:00 AM	On-Site	Bulk Fill	Lot 187	N/E Corner	3m S, 4m W	F/L	100.5	2.0
EW-34	1979/S/151092	10/12/2020 10:50:00 AM	On-Site	Bulk Fill	Lot 204	N/E Corner	5m S, 3m W	F/L	96.5	1.5
EW-35	1979/S/151093	10/12/2020 10:54:00 AM	On-Site	Bulk Fill	Lot 189	N/E Corner	3m S, 6m W	F/L	97.0	2.0
EW-36	1979/S/151094	10/12/2020 10:59:00 AM	On-Site	Bulk Fill	Lot 191	N/E Corner	1m S, 4m W	F/L	101.0	2.0
EW-37	1979/S/151095	10/12/2020 11:10:00 AM	On-Site	Bulk Fill	Lot 193	S/E Corner	2m N, 5m W	F/L	98.0	2.0
EW-38	1979/S/151096	10/12/2020 11:20:00 AM	On-Site	Bulk Fill	Lot 198	S/W Corner	1m N, 6m E	F/L	99.5	2.0
EW-39	1979/S/151097	10/12/2020 11:25:00 AM	On-Site	Bulk Fill	Lot 200	S/W Corner	3m N, 4m E	F/L	99.0	1.5
EW-40	1979/S/151098	10/12/2020 11:29:00 AM	On-Site	Bulk Fill	Lot 132	S/E Corner	4m N, 2m W	F/L	98.5	2.0
EW-41	1979/S/151099	10/12/2020 11:36:00 AM	On-Site	Bulk Fill	Lot 147	S/E Corner	3m N, 5m W	F/L	99.5	2.0
EW-42	1979/S/151100	10/12/2020 11:41:00 AM	On-Site	Bulk Fill	Lot 148	N/E Corner	6m N, 4m W	F/L	97.0	2.0
EW-43	1979/S/151101	10/12/2020 11:45:00 AM	On-Site	Bulk Fill	Lot 150	N/W Corner	8m S, 4m E	F/L	100.0	1.5
EW-44	1979/S/151102	10/12/2020 11:51:00 AM	On-Site	Bulk Fill	Lot 152	N/W Corner	4m S, 3m E	F/L	100.5	1.5

Client: BMD Urban Pty Ltd	Project: 1979/P/2000 - The Banks, Stage 2
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Sample Client Reference	Sample Number	Sample Date/Time	Source	Material	Easting	Northing	RL	Allotment	Wet Density Ratio	Moisture Variation
EW-45	1979/S/151103	10/12/2020 11:56:00 AM	On-Site	Bulk Fill	Lot 142	N/E Corner	4m S, 2m W	F/L	98.5	2.0
EW-46	1979/S/151104	10/12/2020 12:01:00 PM	On-Site	Bulk Fill	Lot 140	N/W Corner	4m S, 1m E	F/L	100.5	2.0
EW-47	1979/S/151105	11/12/2020 12:05:00 PM	On-Site	Bulk Fill	Lot 157	S/E Corner	2m N, 2m W	F/L	100.5	2.0
EW-48	1979/S/151106	11/12/2020 12:09:00 PM	On-Site	Bulk Fill	Lot 165	S/W Corner	3m N, 1m E	F/L	101.0	2.0
EW-49	1979/S/151107	11/12/2020 12:14:00 PM	On-Site	Bulk Fill	Lot 167	S/E Corner	5m N, 4m W	F/L	96.5	2.0
EW-50	1979/S/151108	11/12/2020 12:19:00 PM	On-Site	Bulk Fill	Lot 169	S/W Corner	4m N, 3m E	F/L	100.5	1.5
EW-51	1979/S/151109	11/12/2020 12:24:00 PM	On-Site	Bulk Fill	Lot 172	N/E Corner	12m S, 3m W	F/L	100.0	2.0
EW-52	1979/S/151110	11/12/2020 12:29:00 PM	On-Site	Bulk Fill	Lot 174	S/E Corner	3m N, 4m W	F/L	99.0	2.0
EW-53	1979/S/151111	11/12/2020 12:34:00 PM	On-Site	Bulk Fill	Lot 176	S/E Corner	4m N, 5m W	F/L	97.5	2.0
EW-54	1979/S/151112	11/12/2020 12:38:00 PM	On-Site	Bulk Fill	Lot 177	S/W Corner	3m N, 2m E	F/L	99.0	2.0
EW-55	1979/S/151113	11/12/2020 12:42:00 PM	On-Site	Bulk Fill	Lot 179	S/W Corner	4m N, 5m E	F/L	97.5	2.0
EW-56	1979/S/151114	11/12/2020 12:47:00 PM	On-Site	Bulk Fill	Lot 180	S/W Corner	5m N, 3m E	F/L	96.5	2.0
EW-57	1979/S/151115	11/12/2020 12:51:00 PM	On-Site	Bulk Fill	Lot 182	S/W Corner	4m N, 1m E	F/L	98.5	1.5
EW-58	1979/S/151116	11/12/2020 12:56:00 PM	On-Site	Bulk Fill	Lot 183	S/E Corner	6m N, 6m W	F/L	99.0	1.5
EW-59	1979/S/151117	11/12/2020 1:01:00 PM	On-Site	Bulk Fill	Lot 185	S/W Corner	3m N, 4m E	F/L	99.0	1.5
EW-60	1979/S/151630	9/02/2021 1:05:00 PM	On-Site	Bulk Fill	Lot 13	N/E Corner	6m S, 4m W	F/L	99.0	1.5
EW-61	1979/S/151631	9/02/2021 1:08:00 PM	On-Site	Bulk Fill	Lot 14	N/E Corner	3m S, 5m W	F/L	99.0	2.0
EW-62	1979/S/151632	9/02/2021 1:12:00 PM	On-Site	Bulk Fill	Lot 15	N/E Corner	5m S, 7m W	F/L	100.0	1.5
EW-63	1979/S/151633	9/02/2021 1:13:00 PM	On-Site	Bulk Fill	Lot 16	S/E Corner	3m N, 5m W	F/L	98.5	2.0
EW-64	1979/S/151634	9/02/2021 1:16:00 PM	On-Site	Bulk Fill	Lot 17	N/E Corner	4m S, 12m W	F/L	99.0	2.0
EW-65	1979/S/151635	9/02/2021 1:19:00 PM	On-Site	Bulk Fill	Lot 18	N/E Corner	5m S, 3m W	F/L	98.5	2.0
EW-66	1979/S/151636	9/02/2021 1:22:00 PM	On-Site	Bulk Fill	Lot 19	S/E Corner	2m S, 11m W	F/L	98.0	1.5
EW-67	1979/S/151637	9/02/2021 1:25:00 PM	On-Site	Bulk Fill	Lot 20	N/E Corner	3m S, 8m W	F/L	100.0	2.0
EW-68	1979/S/151638	9/02/2021 1:28:00 PM	On-Site	Bulk Fill	Lot 21	S/W Corner	4m N, 6m E	F/L	99.0	2.0

TABLE 1

APPENDIX

A

BULK EARTHWORKS
FILL





 Denotes Approximate Density Location



CLIENT: BMD URBAN PTY LTD
 PROJECT: THE BANKS STAGE 2
 TEST ITEM: DENSITY LOCATION

JOB No.: P 2000
 SKETCH No.: SK 2
 DATE ISSUED: 23/03/2021



⊕ Denotes Approximate Density Location



CLIENT: BMD URBAN PTY LTD
 PROJECT: THE BANKS STAGE 2
 TEST ITEM: DENSITY LOCATION

JOB No.: P 2000
 SKETCH No.: SK 3
 DATE ISSUED: 23/03/2021



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Stage 2 Area Description: Bulk Earthworks	Report Number: 1979/R/53840-1 Project Number: 1979/P/2000 Lot Number: Various Internal Test Request: 1979/T/28967 Client Reference/s: Bulk Earthworks Report Date / Page: 8/12/2020 Page 1 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/146778	1979/S/146905	1979/S/146906	1979/S/146907
ID / Client ID	EW-01	EW-02	EW-03	EW-04
Lot Number	23/11	24/11	24/11	24/11
Date / Time Tested	23/11/2020 13:42	24/11/2020 10:21	24/11/2020 13:26	24/11/2020 13:38
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)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Easting: m	511824	511758	511716	511746
Northing m	6934221	6934221	6934166	6934164
RL: m	0.2m Below F/L	0.2m Below F/L	F/L	0.2m Below F/L
Allotment:	131	130	143	144
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	5	0	0
Compaction Sample Number	1979/S/146778	1979/S/146905	1979/S/146906	1979/S/146907
Sample Description	Silty Clay Brown	Clayey Sand w gravel Brown	Clayey Sand w gravel Brown	Clayey Sand w gravel Brown
Moisture Test Results:				
Field Moisture Content (%)	18.4	9.8	11.1	11.3
Adjusted / Moisture Variation (%)	1.5	1.5	2.0	2.0
Optimum Moisture Content (%)	20.0	11.5	13.0	13.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	92.5	84.5	85.5	85.5
Density Test Results:				
Field Wet Density (t/m ³)	1.96	2.05	2.08	2.13
Adj/Peak Conv Wet Density (t/m ³)	1.97	2.08	2.09	2.13
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	99.5	99.0	99.5	100.0

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Stage 2 Area Description: Bulk Earthworks	Report Number: 1979/R/53840-1 Project Number: 1979/P/2000 Lot Number: Various Internal Test Request: 1979/T/28967 Client Reference/s: Bulk Earthworks Report Date / Page: 8/12/2020 Page 2 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/147096	1979/S/147097	1979/S/147098	1979/S/147220
ID / Client ID	EW-05	EW-06	EW-07	EW-08
Lot Number	26/11	26/11	26/11	27/11
Date / Time Tested	26/11/2020 09:58	26/11/2020 10:09	26/11/2020 13:58	27/11/2020 13:32
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)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Easting: m	511496	511499	511494	1492.4
Northing m	6934281	6934249	6934227	34284.0
RL: m	1.8m Below F/L	0.4m Below F/L	0.6m Below F/L	12.4
Allotment:	Western Drain	Western Drain	Western Drain	Western Drain
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/147096	1979/S/147097	1979/S/147098	1979/S/147220
Sample Description	Clay Brown	Brown Clay	Clay - Brown	Sandy Clay brown
Moisture Test Results:				
Field Moisture Content (%)	25.1	26.2	13.2	10.5
Adjusted / Moisture Variation (%)	0.5	0.0	2.0	2.0
Optimum Moisture Content (%)	25.5	26.0	15.0	12.5
Moisture Variation from OMC	(Drier than OMC)	(Wetter than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	98.5	101.0	87.5	84.0
Density Test Results:				
Field Wet Density (t/m ³)	1.95	1.94	1.97	2.05
Adj/Peak Conv Wet Density (t/m ³)	1.95	2.04	2.01	2.05
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.0	95.5	98.0	100.0

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Stage 2 Area Description: Bulk Earthworks	Report Number: 1979/R/53840-1 Project Number: 1979/P/2000 Lot Number: Various Internal Test Request: 1979/T/28967 Client Reference/s: Bulk Earthworks Report Date / Page: 8/12/2020 Page 3 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/147221	1979/S/147222		
ID / Client ID	EW-09	EW-10		
Lot Number	27/11	27/11		
Date / Time Tested	27/11/2020 13:43	27/11/2020 13:55		
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)	175 / 200 / 200	175 / 200 / 200		
Standard or Modified	Standard	Standard		
Easting: m	1494.4	1484.9		
Northing m	34260.7	34218.1		
RL: m	12.6	12.5		
Allotment:	Western Drain	Western Drain		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/147221	1979/S/147222		
Sample Description	Sandy Clay brown	Silty Clay Brown		
<i>Moisture Test Results:</i>				
Field Moisture Content (%)	14.0	13.6		
Adjusted / Moisture Variation (%)	1.5	2.0		
Optimum Moisture Content (%)	15.5	15.5		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
Moisture Ratio (%)	90.5	89.0		
<i>Density Test Results:</i>				
Field Wet Density (t/m ³)	2.10	1.84		
Adj/Peak Conv Wet Density (t/m ³)	2.11	1.93		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	99.5	95.0		

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Bulk Earthworks Area Description: Stage 2	Report Number: 1979/R/54013-1 Project Number: 1979/P/2000 Lot Number: 1/12 Internal Test Request: 1979/T/29093 Client Reference/s: 1/12 Report Date / Page: 15/12/2020 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/147351	1979/S/147352	1979/S/147353	1979/S/147354
ID / Client ID	EW-11	EW-12	EW-13	EW-14
Lot Number	1/12	1/12	1/12	1/12
Date / Time Tested	1/12/2020 13:30	1/12/2020 13:38	1/12/2020 13:45	1/12/2020 13:55
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
Easting m	1491.5	1472.2	1472.0	1469.2
Northing m	34245	34222.8	34250.4	34266.9
RL m	13.3	12.9	12.9	12.9
	West Fill Area	West Fill Area	West Fill Area	West Fill Area
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	1	1	0	0
Compaction Sample Number	1979/S/147351	1979/S/147352	1979/S/147353	1979/S/147354
Sample Description	sandy clay brown	sandy clay brown	sandy clay brown	sandy clay brown
Moisture Test Results:				
Field Moisture Content (%)	9.7	10.0	9.4	11.0
Adjusted / Moisture Variation (%)	1.5	1.5	0.5	0.5
Optimum Moisture Content (%)	11.0	11.5	9.5	11.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	87.5	86.0	97.0	95.0
Density Test Results:				
Field Wet Density (t/m ³)	2.04	2.08	2.06	2.02
Adj/Peak Conv Wet Density (t/m ³)	2.08	2.11	2.09	2.10
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	97.5	98.5	98.5	96.0

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Bulk Earthworks Area Description: Stage 2	Report Number: 1979/R/54013-1 Project Number: 1979/P/2000 Lot Number: 1/12 Internal Test Request: 1979/T/29093 Client Reference/s: 1/12 Report Date / Page: 15/12/2020 Page 2 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/147355		
ID / Client ID	EW-15		
Lot Number	1/12		
Date / Time Tested	1/12/2020 14:03		
Material Source	On-Site		
Material Type	Bulk Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	275 / 300 / 300		
Standard or Modified	Standard		
Easting	m 1466.1		
Northing	m 34285.7		
RL	m 13.2		
	West Fill Area		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	1		
Compaction Sample Number	1979/S/147355		
Sample Description	sandy clay brown		
Moisture Test Results:			
Field Moisture Content (%)	11.8		
Adjusted / Moisture Variation (%)	0.0		
Optimum Moisture Content (%)	12.0		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	99.0		
Density Test Results:			
Field Wet Density (t/m ³)	2.07		
Adj/Peak Conv Wet Density (t/m ³)	2.10		
Density Ratio Required (%)	95		
Hilf Density Ratio (%)	99.0		

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Bulk Earthworks Area Description: West Fill Area	Report Number: 1979/R/54112-1 Project Number: 1979/P/2000 Lot Number: - Internal Test Request: 1979/T/29255 Client Reference/s: Bulk Earthworks Report Date / Page: 17/12/2020 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/148192	1979/S/148193	1979/S/148194	1979/S/148195
ID / Client ID	EW-16	EW-17	EW-18	EW-19
Lot Number	-	-	-	-
Date / Time Tested	11/12/2020 13:29	11/12/2020 13:35	11/12/2020 13:40	11/12/2020 13:46
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
Easting m	511473	511473	511475	511494
Northing m	6934231	6934215	6934202	6934194
RL m	14.4	14.5	14.5	14.4
	Western Drain	Western Drain	Western Drain	Western Drain
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/148192	1979/S/148193	1979/S/148194	1979/S/148195
Sample Description	sandy clay brown	sandy clay brown	sandy clay brown	sandy clay brown
Moisture Test Results:				
Field Moisture Content (%)	13.7	14.2	13.2	13.6
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	16.0	16.0	15.5	16.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	85.5	88.0	85.0	86.0
Density Test Results:				
Field Wet Density (t/m ³)	1.95	1.96	2.02	2.04
Adj/Peak Conv Wet Density (t/m ³)	2.05	2.02	2.04	2.02
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	95.0	97.0	99.0	101.0

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Bulk Earthworks Area Description: West Fill Area	Report Number: 1979/R/54112-1 Project Number: 1979/P/2000 Lot Number: - Internal Test Request: 1979/T/29255 Client Reference/s: Bulk Earthworks Report Date / Page: 17/12/2020 Page 2 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/148196	1979/S/148197		
ID / Client ID	EW-20	EW-21		
Lot Number	-	-		
Date / Time Tested	11/12/2020 13:52	11/12/2020 14:00		
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		
Easting	m 511502	511490		
Northing	m 6934208	6934225		
RL	m 14.2	14.2		
	Western Drain	Western Drain		
Test Fraction (mm)	< 19.0 mm	< 19.0 mm		
Sample Oversize (%)	0	0		
Compaction Sample Number	1979/S/148196	1979/S/148197		
Sample Description	sandy clay brown	sandy clay brown		
Moisture Test Results:				
Field Moisture Content (%)	10.0	9.6		
Adjusted / Moisture Variation (%)	2.0	1.0		
Optimum Moisture Content (%)	12.0	10.5		
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)		
Moisture Ratio (%)	82.0	92.5		
Density Test Results:				
Field Wet Density (t/m ³)	2.06	2.10		
Adj/Peak Conv Wet Density (t/m ³)	2.04	2.12		
Density Ratio Required (%)	95	95		
Hilf Density Ratio (%)	101.0	99.0		

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
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WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Bulk Earthworks Area Description: West Fill Area	Report Number: 1979/R/54438-1 Project Number: 1979/P/2000 Lot Number: 08/01/2021 Internal Test Request: 1979/T/29255 Client Reference/s: Bulk Earthworks Report Date / Page: 20/01/2021 Page 1 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/148869	1979/S/148870	1979/S/148871	1979/S/148872
ID / Client ID	EW-22	EW-23	EW-24	EW-25
Lot Number	08/01/2021	08/01/2021	08/01/2021	08/01/2021
Date / Time Tested	8/01/2021 10:30	8/01/2021 10:40	8/01/2021 10:49	8/01/2021 11:04
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)	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200	175 / 200 / 200
Standard or Modified	Standard	Standard	Standard	Standard
Easting m	153.11584	153.11592	153.11604	153.11609
Northing m	-27.71576	-27.71546	-27.71515	-27.71479
RL m	F/L	F/L	F/L	F/L
	Stage 4	Stage 4	Stage 4	Stage 4
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/148869	1979/S/148870	1979/S/148871	1979/S/148872
Sample Description	Clay - Brown	Clay - Brown	Clay - Brown	Clay - Brown
Moisture Test Results:				
Field Moisture Content (%)	14.0	12.6	14.3	12.7
Adjusted / Moisture Variation (%)	2.0	2.0	1.5	1.5
Optimum Moisture Content (%)	16.0	14.5	16.0	14.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	87.0	87.5	89.5	88.0
Density Test Results:				
Field Wet Density (t/m ³)	2.00	2.01	1.97	2.03
Adj/Peak Conv Wet Density (t/m ³)	2.08	2.11	2.07	2.11
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	96.0	95.5	95.5	96.0

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

Client: BMD Urban Pty Ltd	Report Number: 1979/R/54438-1
Client Address: PO Box 197, WYNNUM	Project Number: 1979/P/2000
Project: The Banks, Stage 2	Lot Number: 08/01/2021
Location: 370-398 Logan Reserve Road	Internal Test Request: 1979/T/29255
Component: Bulk Earthworks	Client Reference/s: Bulk Earthworks
Area Description: West Fill Area	Report Date / Page: 20/01/2021 Page 2 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/148873	1979/S/148874	
ID / Client ID	EW-26	EW-27	
Lot Number	08/01/2021	08/01/2021	
Date / Time Tested	8/01/2021 11:22	8/01/2021 11:36	
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)	175 / 200 / 200	175 / 200 / 200	
Standard or Modified	Standard	Standard	
Easting m	153.11637	153.11615	
Northing m	-27.71459	-27.71524	
RL m	F/L	F/L	
	Stage 4	Stage 4	
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	
Sample Oversize (%)	0	0	
Compaction Sample Number	1979/S/148873	1979/S/148874	
Sample Description	Clay - Brown	Clay - Brown	
<i>Moisture Test Results:</i>			
Field Moisture Content (%)	14.4	12.2	
Adjusted / Moisture Variation (%)	2.0	2.0	
Optimum Moisture Content (%)	16.5	14.0	
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	
Moisture Ratio (%)	87.5	86.0	
<i>Density Test Results:</i>			
Field Wet Density (t/m ³)	2.05	1.98	
Adj/Peak Conv Wet Density (t/m ³)	2.05	2.08	
Density Ratio Required (%)	95	95	
Hilf Density Ratio (%)	100.0	95.5	

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 1979/R/54402-2
Client Address: PO Box 197, WYNNUM	Project Number: 1979/P/2000
Project: The Banks, Stage 2	Lot Number: -
Location: 370-398 Logan Reserve Road	Internal Test Request: 1979/T/29344
Component: Earthworks	Client Reference/s: 06/01
Area Description: West Fill Area	Report Date / Page: 20/01/2021 Page 1 of 2

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/148721	1979/S/148722	1979/S/148723	1979/S/148724
ID / Client ID	EW-28	EW-29	EW-30	EW-31
Lot Number	-	-	-	-
Date / Time Tested	6/01/2021 12:02	6/01/2021 12:10	6/01/2021 12:15	6/01/2021 12:20
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
Easting: m	511483	511471	511460	511462
Northing m	6934196	6934191	6934192	6934205
RL: m	F/L	F/L	F/L	F/L
Allotment:	Western Fill Area	Western Fill Area	Western Fill Area	Western Fill Area
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/148721	1979/S/148722	1979/S/148723	1979/S/148724
Sample Description	Silty Gravelly Clay Brown	Silty Gravelly Clay Brown	Silty Gravelly Clay Brown	Silty Gravelly Clay Brown
Moisture Test Results:				
Field Moisture Content (%)	9.8	10.0	9.8	10.5
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	11.5	12.0	12.0	12.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	84.5	82.0	82.5	84.0
Density Test Results:				
Field Wet Density (t/m ³)	1.98	2.03	1.96	2.01
Adj/Peak Conv Wet Density (t/m ³)	2.03	2.07	2.03	2.07
Density Ratio Required (%)	95	95	95	95
Half Density Ratio (%)	97.5	98.0	96.5	97.0

Remarks	Re-issued Report Replaces Report No 1979/R/54402-1 (reason: Client Reference Amended).
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	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 1979		Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: West Fill Area	Report Number: 1979/R/54402-2 Project Number: 1979/P/2000 Lot Number: - Internal Test Request: 1979/T/29344 Client Reference/s: 06/01 Report Date / Page: 20/01/2021 Page 2 of 2
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/148725		
ID / Client ID	EW-32		
Lot Number	-		
Date / Time Tested	6/01/2021 12:25		
Material Source	On-Site		
Material Type	Bulk Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	275 / 300 / 300		
Standard or Modified	Standard		
Easting: m	511450		
Northing m	6934175		
RL: m	F/L		
Allotment:	Western Fill Area		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	0		
Compaction Sample Number	1979/S/148725		
Sample Description	Silty Gravelly Clay Brown		
Moisture Test Results:			
Field Moisture Content (%)	7.8		
Adjusted / Moisture Variation (%)	2.0		
Optimum Moisture Content (%)	9.5		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	80.5		
Density Test Results:			
Field Wet Density (t/m ³)	2.02		
Adj/Peak Conv Wet Density (t/m ³)	2.02		
Density Ratio Required (%)	95		
Hilf Density Ratio (%)	100.0		

Remarks	Re-Issued Report Replaces Report No 1979/R/54402-1 (reason: Client Reference Amended).
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	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 1979	Approved Signatory: Dean Stimpson Form ID: W5ASRep Rev 2	



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: Stage 2 & 3	Report Number: 1979/R/55380-1 Project Number: 1979/P/2000 Lot Number: - Internal Test Request: 1979/T/29825 Client Reference/s: Docket Number: 3921 Report Date / Page: 24/02/2021 Page 1 of 7
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/151091	1979/S/151092	1979/S/151093	1979/S/151094
ID / Client ID	EW-33	EW-34	EW-35	EW-36
Lot Number	-	-	-	-
Date / Time Tested	10/12/2020 10:45	10/12/2020 10:50	10/12/2020 10:54	10/12/2020 10:59
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 187 N/E Corner 3m S, 4m W	Lot 204 N/E Corner 5m S, 3m W	Lot 189 N/E Corner 3m S, 6m W	Lot 191 N/E Corner 1m S, 4m W
Level	F/L	F/L	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/151091	1979/S/151092	1979/S/151093	1979/S/151094
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<i>Moisture Test Results:</i>				
Field Moisture Content (%)	7.2	7.9	7.9	6.9
Adjusted / Moisture Variation (%)	2.0	1.5	2.0	2.0
Optimum Moisture Content (%)	9.5	9.5	9.5	8.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	77.5	83.0	81.5	80.0
<i>Density Test Results:</i>				
Field Wet Density (t/m ³)	2.10	1.98	1.94	2.03
Adj/Peak Conv Wet Density (t/m ³)	2.08	2.05	2.00	2.01
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	100.5	96.5	97.0	101.0

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: Stage 2 & 3	Report Number: 1979/R/55380-1 Project Number: 1979/P/2000 Lot Number: - Internal Test Request: 1979/T/29825 Client Reference/s: Docket Number: 3921 Report Date / Page: 24/02/2021 Page 2 of 7
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/151095	1979/S/151096	1979/S/151097	1979/S/151098
ID / Client ID	EW-37	EW-38	EW-39	EW-40
Lot Number	-	-	-	-
Date / Time Tested	10/12/2020 11:10	10/12/2020 11:20	10/12/2020 11:25	10/12/2020 11:29
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 193 S/E Corner 2m N, 5m W	Lot 198 S/W Corner 1m N, 6m E	Lot 200 S/W Corner 3m N, 4m E	Lot 132 S/E Corner 4m N, 2m W
Level	F/L	F/L	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/151095	1979/S/151096	1979/S/151097	1979/S/151098
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
Moisture Test Results:				
Field Moisture Content (%)	18.4	16.5	11.1	15.8
Adjusted / Moisture Variation (%)	2.0	2.0	1.5	2.0
Optimum Moisture Content (%)	20.5	18.5	13.0	18.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	89.5	88.5	86.5	88.5
Density Test Results:				
Field Wet Density (t/m ³)	1.98	2.05	2.00	1.99
Adj/Peak Conv Wet Density (t/m ³)	2.02	2.06	2.02	2.02
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	98.0	99.5	99.0	98.5

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: Stage 2 & 3	Report Number: 1979/R/55380-1 Project Number: 1979/P/2000 Lot Number: - Internal Test Request: 1979/T/29825 Client Reference/s: Docket Number: 3921 Report Date / Page: 24/02/2021 Page 3 of 7
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/151099	1979/S/151100	1979/S/151101	1979/S/151102
ID / Client ID	EW-41	EW-42	EW-43	EW-44
Lot Number	-	-	-	-
Date / Time Tested	10/12/2020 11:36	10/12/2020 11:41	10/12/2020 11:45	10/12/2020 11:51
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 147 S/E Corner 3m N, 5m W	Lot 148 N/E Corner 6m N, 4m W	Lot 150 N/W Corner 8m S, 4m E	Lot 152 N/W Corner 4m S, 3m E
Level	F/L	F/L	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/151099	1979/S/151100	1979/S/151101	1979/S/151102
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<i>Moisture Test Results:</i>				
Field Moisture Content (%)	16.3	14.8	12.2	16.0
Adjusted / Moisture Variation (%)	2.0	2.0	1.5	1.5
Optimum Moisture Content (%)	18.5	17.0	14.0	17.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	89.0	87.0	88.5	91.0
<i>Density Test Results:</i>				
Field Wet Density (t/m ³)	2.03	1.99	2.02	2.04
Adj/Peak Conv Wet Density (t/m ³)	2.04	2.06	2.02	2.03
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	99.5	97.0	100.0	100.5

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: Stage 2 & 3	Report Number: 1979/R/55380-1 Project Number: 1979/P/2000 Lot Number: - Internal Test Request: 1979/T/29825 Client Reference/s: Docket Number: 3921 Report Date / Page: 24/02/2021 Page 4 of 7
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/151103	1979/S/151104	1979/S/151105	1979/S/151106
ID / Client ID	EW-45	EW-46	EW-47	EW-48
Lot Number	-	-	-	-
Date / Time Tested	10/12/2020 11:56	10/12/2020 12:01	11/12/2020 12:05	11/12/2020 12:09
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 142 N/E Corner 4m S, 2m W	Lot 140 N/W Corner 4m S, 1m E	Lot 157 S/E Corner 2m N, 2m W	Lot 165 S/W Corner 3m N, 1m E
Level	F/L	F/L	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/151103	1979/S/151104	1979/S/151105	1979/S/151106
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<i>Moisture Test Results:</i>				
Field Moisture Content (%)	7.2	14.8	7.3	8.9
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	9.0	16.5	9.5	11.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	79.0	89.0	78.5	81.0
<i>Density Test Results:</i>				
Field Wet Density (t/m ³)	2.01	2.00	2.04	2.02
Adj/Peak Conv Wet Density (t/m ³)	2.04	2.00	2.03	2.00
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	98.5	100.5	100.5	101.0

Remarks

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

Client: BMD Urban Pty Ltd	Report Number: 1979/R/55380-1
Client Address: PO Box 197, WYNNUM	Project Number: 1979/P/2000
Project: The Banks, Stage 2	Lot Number: -
Location: 370-398 Logan Reserve Road	Internal Test Request: 1979/T/29825
Component: Earthworks	Client Reference/s: Docket Number: 3921
Area Description: Stage 2 & 3	Report Date / Page: 24/02/2021 Page 5 of 7

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/151107	1979/S/151108	1979/S/151109	1979/S/151110
ID / Client ID	EW-49	EW-50	EW-51	EW-52
Lot Number	-	-	-	-
Date / Time Tested	11/12/2020 12:14	11/12/2020 12:19	11/12/2020 12:24	11/12/2020 12:29
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 167 S/E Corner 5m N, 4m W	Lot 169 S/W Corner 4m N, 3m E	Lot 172 N/E Corner 12m S, 3m W	Lot 174 S/E Corner 3m N, 4m W
Level	F/L	F/L	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/151107	1979/S/151108	1979/S/151109	1979/S/151110
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
Moisture Test Results:				
Field Moisture Content (%)	12.8	16.5	11.9	20.4
Adjusted / Moisture Variation (%)	2.0	1.5	2.0	2.0
Optimum Moisture Content (%)	14.5	18.0	13.5	22.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	87.5	90.5	87.0	91.0
Density Test Results:				
Field Wet Density (t/m ³)	2.00	2.01	2.01	2.00
Adj/Peak Conv Wet Density (t/m ³)	2.07	2.00	2.01	2.02
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	96.5	100.5	100.0	99.0

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd	Report Number: 1979/R/55380-1
Client Address: PO Box 197, WYNNUM	Project Number: 1979/P/2000
Project: The Banks, Stage 2	Lot Number: -
Location: 370-398 Logan Reserve Road	Internal Test Request: 1979/T/29825
Component: Earthworks	Client Reference/s: Docket Number: 3921
Area Description: Stage 2 & 3	Report Date / Page: 24/02/2021 Page 6 of 7

Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/151111	1979/S/151112	1979/S/151113	1979/S/151114
ID / Client ID	EW-53	EW-54	EW-55	EW-56
Lot Number	-	-	-	-
Date / Time Tested	11/12/2020 12:34	11/12/2020 12:38	11/12/2020 12:42	11/12/2020 12:47
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 176 S/E Corner 4m N, 5m W	Lot 177 S/W Corner 3m N, 2m E	Lot 179 S/W Corner 4m N, 5m E	Lot 180 S/W Corner 5m N, 3m E
Level	F/L	F/L	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/151111	1979/S/151112	1979/S/151113	1979/S/151114
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
<i>Moisture Test Results:</i>				
Field Moisture Content (%)	7.7	13.0	7.3	12.9
Adjusted / Moisture Variation (%)	2.0	2.0	2.0	2.0
Optimum Moisture Content (%)	9.5	15.0	9.0	15.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	81.0	86.5	80.0	85.0
<i>Density Test Results:</i>				
Field Wet Density (t/m ³)	2.04	2.00	2.01	2.00
Adj/Peak Conv Wet Density (t/m ³)	2.10	2.02	2.06	2.08
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	97.5	99.0	97.5	96.5

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: Stage 2 & 3	Report Number: 1979/R/55380-1 Project Number: 1979/P/2000 Lot Number: - Internal Test Request: 1979/T/29825 Client Reference/s: Docket Number: 3921 Report Date / Page: 24/02/2021 Page 7 of 7
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1
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Sample Number	1979/S/151115	1979/S/151116	1979/S/151117
ID / Client ID	EW-57	EW-58	EW-59
Lot Number	-	-	-
Date / Time Tested	11/12/2020 12:51	11/12/2020 12:56	11/12/2020 13:01
Material Source	On-Site	On-Site	On-Site
Material Type	Bulk Fill	Bulk Fill	Bulk Fill
Sampling Method	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b	AS1289.1.2.1 Cl 6.4b
Depths: Test / Nom / Actual (mm)	275 / 300 / 300	275 / 300 / 300	275 / 300 / 300
Standard or Modified	Standard	Standard	Standard
Location	Lot 182 S/W Corner 4m N, 1m E	Lot 183 S/E Corner 6m N, 6m W	Lot 185 S/W Corner 3m N, 4m E
Level	F/L	F/L	F/L
Test Fraction (mm)	< 19.0 mm	< 19.0 mm	< 19.0 mm
Sample Oversize (%)	0	0	0
Compaction Sample Number	1979/S/151115	1979/S/151116	1979/S/151117
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
Moisture Test Results:			
Field Moisture Content (%)	7.0	14.7	13.5
Adjusted / Moisture Variation (%)	1.5	1.5	1.5
Optimum Moisture Content (%)	8.5	16.0	15.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	81.5	90.5	89.0
Density Test Results:			
Field Wet Density (t/m ³)	2.00	2.05	2.00
Adj/Peak Conv Wet Density (t/m ³)	2.02	2.08	2.02
Density Ratio Required (%)	95	95	95
Hilf Density Ratio (%)	98.5	99.0	99.0

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: Stage 4	Report Number: 1979/R/55584-1 Project Number: 1979/P/2000 Lot Number: Stage 4 Internal Test Request: 1979/T/29906 Client Reference/s: Docket Number: 3921 Report Date / Page: 1/03/2021 Page 1 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.1.4.2
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Sample Number	1979/S/151630	1979/S/151631	1979/S/151632	1979/S/151633
ID / Client ID	EW-60	EW-61	EW-62	EW-63
Lot Number	Stage 4	Stage 4	Stage 4	Stage 4
Date / Time Tested	9/02/2021 13:05	9/02/2021 13:08	9/02/2021 13:12	9/02/2021 13:13
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 13 N/E Corner 6m S, 4m W	Lot 14 N/E Corner 3m S, 5m W	Lot 15 N/E Corner 5m S, 7m W	Lot 16 S/E Corner 3m N, 5m W
Level	F/L	F/L	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/151630	1979/S/151631	1979/S/151632	1979/S/151633
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
Moisture Test Results:				
Field Moisture Content (%)	14.2	13.5	14.1	15.1
Adjusted / Moisture Variation (%)	1.5	2.0	1.5	2.0
Optimum Moisture Content (%)	16.0	15.5	15.5	17.0
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	89.5	88.0	91.0	88.5
Density Test Results:				
Field Wet Density (t/m ³)	2.04	2.02	2.00	2.05
Adj/Peak Conv Wet Density (t/m ³)	2.06	2.04	2.00	2.08
Density Ratio Required (%)	95	95	95	95
Hilf Density Ratio (%)	99.0	99.0	100.0	98.5

Remarks

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



WET DENSITY RATIO REPORT

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: Stage 4	Report Number: 1979/R/55584-1 Project Number: 1979/P/2000 Lot Number: Stage 4 Internal Test Request: 1979/T/29906 Client Reference/s: Docket Number: 3921 Report Date / Page: 1/03/2021 Page 2 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.1.4.2
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Sample Number	1979/S/151634	1979/S/151635	1979/S/151636	1979/S/151637
ID / Client ID	EW-64	EW-65	EW-66	EW-67
Lot Number	Stage 4	Stage 4	Stage 4	Stage 4
Date / Time Tested	9/02/2021 13:16	9/02/2021 13:19	9/02/2021 13:22	9/02/2021 13:25
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 17 N/E Corner 4m S, 12m W	Lot 18 N/E Corner 5m S, 3m W	Lot 19 S/E Corner 2m S, 11m W	Lot 20 N/E Corner 3m S, 8m W
Level	F/L	F/L	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/151634	1979/S/151635	1979/S/151636	1979/S/151637
Sample Description	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown	Sandy CLAY - Brown
Moisture Test Results:				
Field Moisture Content (%)	13.4	15.9	14.6	11.2
Adjusted / Moisture Variation (%)	2.0	2.0	1.5	2.0
Optimum Moisture Content (%)	15.0	18.0	16.0	13.5
Moisture Variation from OMC	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)	(Drier than OMC)
Moisture Ratio (%)	88.0	89.5	90.5	83.5
Density Test Results:				
Field Wet Density (t/m ³)	1.99	2.05	2.06	2.05
Adj/Peak Conv Wet Density (t/m ³)	2.01	2.08	2.10	2.06
Density Ratio Required (%)	95	95	95	95
Hiif Density Ratio (%)	99.0	98.5	98.0	100.0

Remarks

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

Client: BMD Urban Pty Ltd Client Address: PO Box 197, WYNNUM Project: The Banks, Stage 2 Location: 370-398 Logan Reserve Road Component: Earthworks Area Description: Stage 4	Report Number: 1979/R/55584-1 Project Number: 1979/P/2000 Lot Number: Stage 4 Internal Test Request: 1979/T/29906 Client Reference/s: Docket Number: 3921 Report Date / Page: 1/03/2021 Page 3 of 3
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Test Procedures:	AS1289.5.7.1, AS1289.5.8.1, AS1289.2.1.1, AS1289.1.4.2
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Sample Number	1979/S/151638		
ID / Client ID	EW-68		
Lot Number	Stage 4		
Date / Time Tested	9/02/2021 13:28		
Material Source	On-Site		
Material Type	Bulk Fill		
Sampling Method	AS1289.1.2.1 Cl 6.4b		
Depths: Test / Nom / Actual (mm)	275 / 300 / 300		
Standard or Modified	Standard		
Location	Lot 21 S/W Corner 4m N, 6m E		
Level	F/L		
Test Fraction (mm)	< 19.0 mm		
Sample Oversize (%)	0		
Compaction Sample Number	1979/S/151638		
Sample Description	Sandy CLAY - Brown		
<i>Moisture Test Results:</i>			
Field Moisture Content (%)	15.3		
Adjusted / Moisture Variation (%)	2.0		
Optimum Moisture Content (%)	17.5		
Moisture Variation from OMC	(Drier than OMC)		
Moisture Ratio (%)	88.0		
<i>Density Test Results:</i>			
Field Wet Density (t/m ³)	2.04		
Adj/Peak Conv Wet Density (t/m ³)	2.07		
Density Ratio Required (%)	95		
Hilf Density Ratio (%)	99.0		

Remarks

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

APPENDIX

B

LOT LETTERS



Ref: 1979/L/12

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

1 Fox Road
Acacia Ridge QLD 4110
Australia

BMD Urban Pty Ltd
PO Box 197
WYNNUM QLD 4178

PO Box 253
Acacia Ridge QLD 4110
Australia

Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 12, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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/13

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 13, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/14

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 14, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/15

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 15, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/16

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 16, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/17

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 17, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/18

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 18, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/19

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 19, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/20

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 20, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/21

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 21, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L22

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 22, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/23

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 23, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/24

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 24, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/25

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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WYNNUM QLD 4178

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 25, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/26

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 26, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/27

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 27, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/129

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 129, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/130

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 130, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/131

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 131, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/132

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 132, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/133

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 133, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/134

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 134, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/135

Project Ref: 1979/P/2000

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 135, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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/140

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 140, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/141

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 141, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/142

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 142, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/143

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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LOT 143, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/144

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 144, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/145

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 145, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/146

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 146, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Lab Manager
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Construction Sciences

Ref: 1979/L/147

Project Ref: 1979/P/2000

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 147, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/148

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 148, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/149

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 149, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/150

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 150, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/151

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 151, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/152

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 152, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/153

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 153, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/154

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 154, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/12

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 157, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/164

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 164, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/165

Project Ref: 1979/P/2000

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ABN 74 128 806 735

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 165, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Lab Manager
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Ref: 1979/L/166

Project Ref: 1979/P/2000

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 166, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 167, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Wayne Gorman
Lab Manager
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Construction Sciences

Ref: 1979/L/168

Project Ref: 1979/P/2000

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 168, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 169, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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/170

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

1 Fox Road
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WYNNUM QLD 4178

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Phone: 61 7 3320 8500
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 170, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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

Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/171

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 171, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/172

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 172, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/173

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 173, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/174

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 174, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/175

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 175, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/176

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 176, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/177

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 177, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/178

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 178, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/179

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 179, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/180

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

1 Fox Road
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 180, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/181

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

1 Fox Road
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 181, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/182

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 182, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/183

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 183, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/184

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

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LOT 184, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/185

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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LOT 185, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/186

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 186, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/187

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
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23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 187, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/188

Project Ref: 1979/P/2000

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ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 188, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/189

Project Ref: 1979/P/2000

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23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 189, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Lab Manager
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Construction Sciences

Ref: 1979/L/190

Project Ref: 1979/P/2000

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 190, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Wayne Gorman
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Construction Sciences

Ref: 1979/L/191

Project Ref: 1979/P/2000

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 191, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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/192

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

1 Fox Road
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WYNNUM QLD 4178

PO Box 253
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Phone: 61 7 3320 8500
www.constructionsciences.net

Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 192, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/193

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 193, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/198

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 198, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/199

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 199, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/200

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 200, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/201

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 201, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/202

Project Ref: 1979/P/2000

Construction Sciences Pty Ltd
ABN 74 128 806 735

23/03/2021

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 202, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/203

Project Ref: 1979/P/2000

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Dear Sir/Madam,

**INSPECTION OF PLACEMENT AND COMPACTION OF ALLOTMENT FILL
LOT 203, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Yours faithfully



Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Ref: 1979/L/204

Project Ref: 1979/P/2000

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Dear Sir/Madam,

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LOT 204, The Banks Stage 2, 370-398 LOGAN RESERVE ROAD**

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Wayne Gorman
Lab Manager
For Brisbane South
Construction Sciences

Contact

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

brisbane@constructionsciences.net
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