



Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur, Q. 4503

Ph. (07) 3285 6536

Email. brissoil@bigpond.net.au

Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

Job No. 202139

21st of October 2021

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Kayt Scott

RE: COMMUNITY LINKS ESTATE – STAGE 5 (Revised Report)

(Allotment Fill– Geotechnical Inspection & Testing)

(Revised to now include further controlled fill to Lot 125)

SCOPE

Brisbane Soil Testing were commissioned by BMD Urban Pty Ltd to provide geotechnical inspection and testing of the allotment earthworks on the above stage subdivision.

Some filling was required as part of the development and for this work, our site presence was maintained in accordance with AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Developments" Appendix B, "Level 1". As directed the scope of the Level 1 inspection and testing was:

- (i) check adequacy of pre-fill ground preparation
- (ii) remove unsuitable materials
- (iii) inspect and carry out compaction control testing of placed fill materials

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on the 11th of August 2021 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff.

On-site cut materials were used for filling and these materials were generally placed in 0.20m loose horizontal layers and compacted with an 815 compactor and vibrating pad foot roller.

Eleven field density tests were carried between the 11th of August 2021 and the 18th of October 2021. These tests recorded Dry Density Ratios between 99.5% and 107.5% relative to the standard compaction test and field moisture contents within -1.0% and +1.5% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/3 (Report Nos. 46852, 46897, 46899, 46918, 47110 & 47143) provide full test data for the compaction control tests.

No fill was placed on Lots 94, 95, 96, 99, 104, 105, 106, 107 & 108 during our Level 1 Inspection and Testing Commission.

CONCLUSION

Based on the test results and site inspections, we conclude that the fill foundation is considered to comply with requirements of Table 5.1- Item 1 of AS3798-2007 and the project specifications.

We confirm that all vegetation and topsoil was removed, and that a sound base for the proposed filling was provided. We further confirm that all filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.



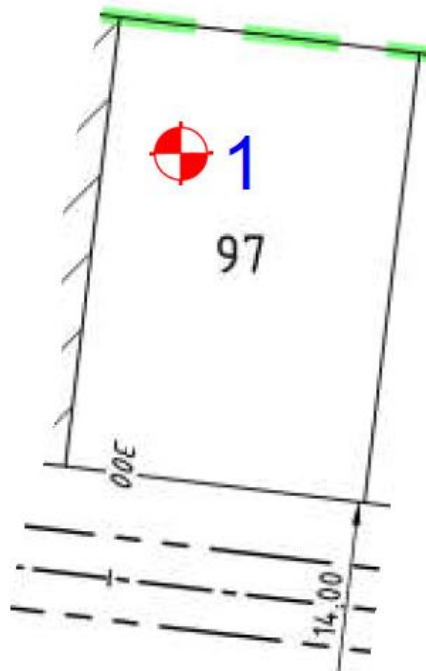
GREG McGRANN
BRISBANE SOIL TESTING
Managing Director



Brisbane Soil Testing

20/1191 Anzac Ave
Kallangur, Q. 4503

**EARTHWORKS SUMMARY REPORT
COMMUNITY LINKS ESTATE – STAGE 5
LOT 97**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24337)	18/08/2021	o/s 9m Rear bdy, o/s 4m Left bdy R.L. 10.70	107.5

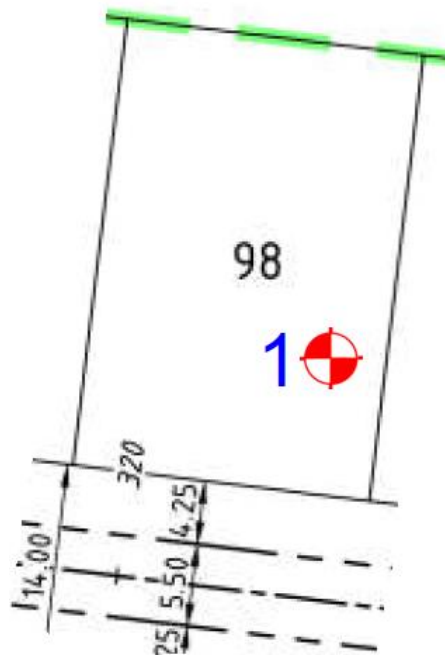
In our opinion all fill on Lot 97 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT
COMMUNITY LINKS ESTATE – STAGE 5
LOT 98**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24278)	12/08/2021	o/s 11m Front bdy, o/s 3m Right bdy R.L. 9.93	100.5

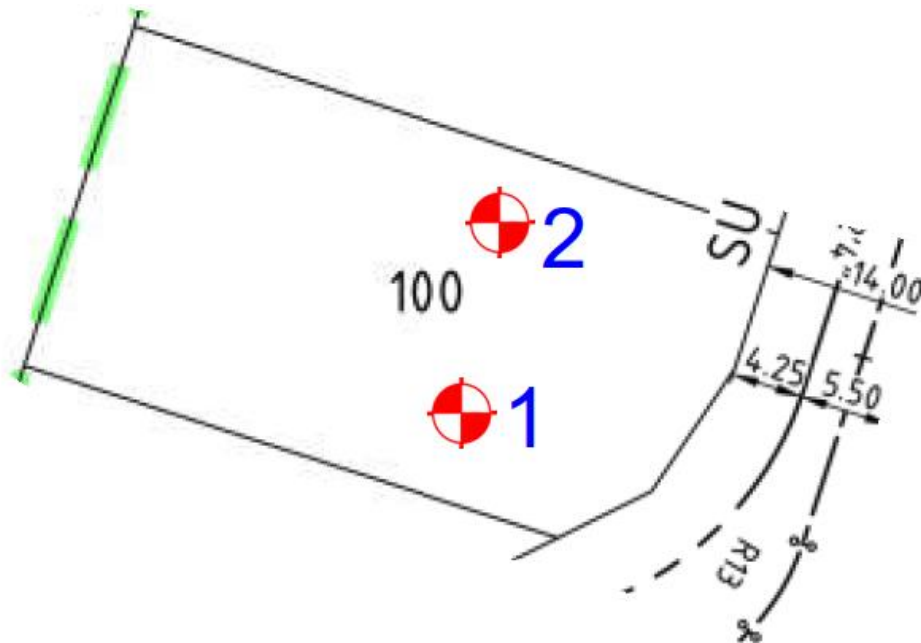
In our opinion all fill on Lot 98 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT
COMMUNITY LINKS ESTATE – STAGE 5
LOT 100**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24277)	12/08/2021	o/s 12m Front bdy, o/s 5m Left bdy R.L. 8.83	99.5
2 (24302)	13/08/2021	o/s 17m Front bdy, o/s 3m Right bdy R.L. 9.47	102.0

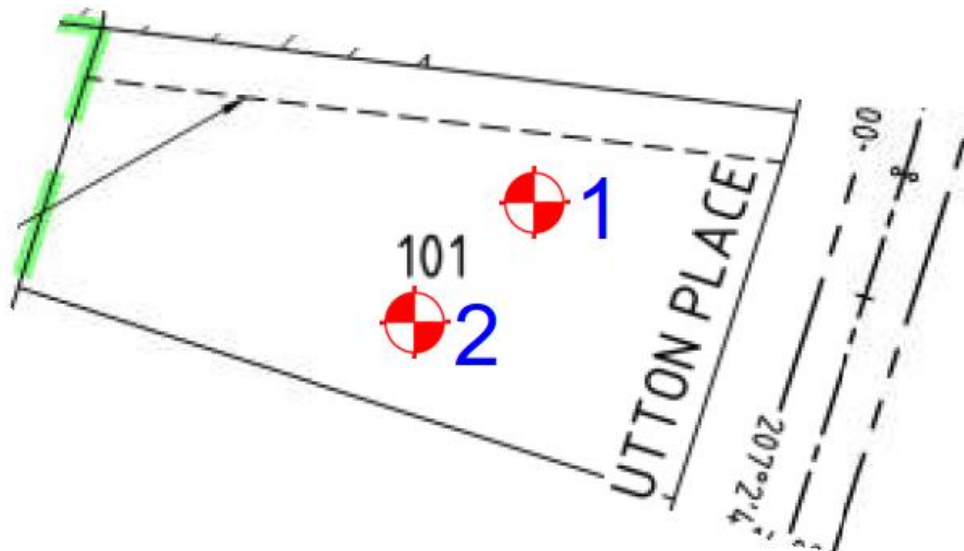
In our opinion all fill on Lot 100 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT
COMMUNITY LINKS ESTATE – STAGE 5
LOT 101**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24276)	12/08/2021	o/s 12m Front bdy, o/s 6m Right bdy R.L. 8.92	101.5
2 (24301)	13/08/2021	o/s 17m Front bdy, o/s 6m Left bdy R.L. 9.66	102.5

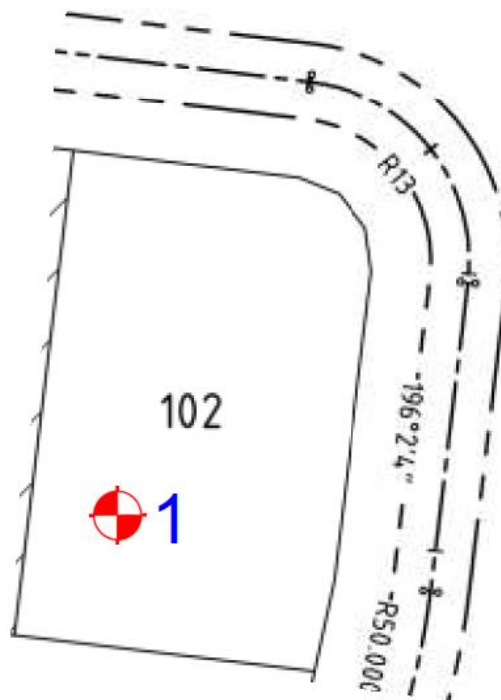
In our opinion all fill on Lot 101 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT
COMMUNITY LINKS ESTATE – STAGE 5
LOT 102**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24274)	11/08/2021	o/s 8m Rear bdy, o/s 6m Right bdy R.L. 9.61	99.5

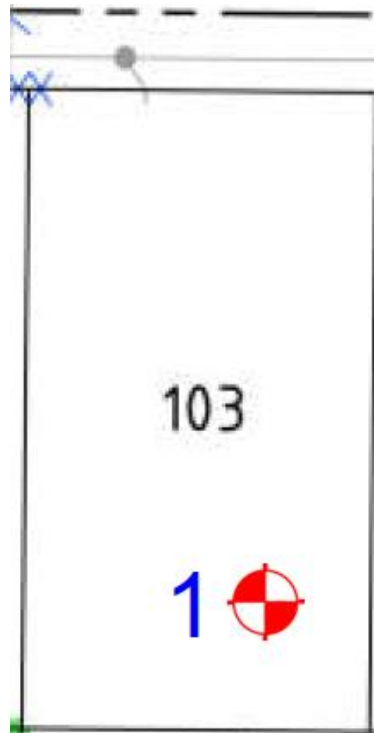
In our opinion all fill on Lot 102 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT
COMMUNITY LINKS ESTATE – STAGE 5
LOT 103**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24275)	11/08/2021	o/s 6m Rear bdy, o/s 3m Left bdy R.L. 9.47	99.5

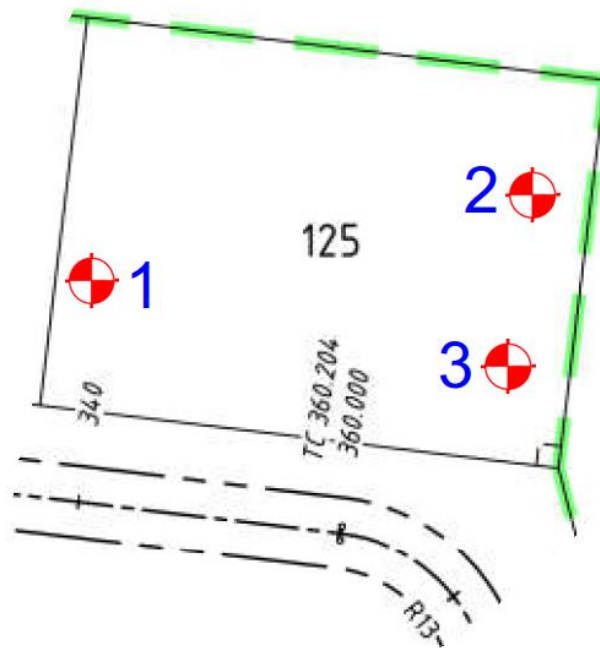
In our opinion all fill on Lot 103 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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EARTHWORKS SUMMARY REPORT COMMUNITY LINKS ESTATE – STAGE 5 LOT 125



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (24279)	12/08/2021	o/s 11m Front bdy, o/s 1m Left bdy R.L. 9.90	101.0
2 (24903)	07/10/2021	o/s 7m Rear bdy, o/s 3m Right bdy R.L. 8.01	100.0
3 (24952)	18/10/2021	o/s 8m Front bdy, o/s 3m Right bdy R.L. 8.48	105.0

In our opinion all fill on Lot 125 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46852
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202139
Project	COMMUNITY LINKS ESTATE – STAGE 5	Date Tested	11/08/2021	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
24274	10:00	150	LOT 102 8m Rear bdy, 6m Right bdy R.L. 9.61	24274	-	16.5	15.0	Adj. 1.5 WET	2.11	Adj. 2.12	99.5
Material Description: GREY BROWN SILTY SANDY CLAY											
24275	10:30	150	LOT 103 6m Rear bdy, 3m Left bdy R.L. 9.47	24275	-	16.0	15.5	Adj. 0.5 WET	2.11	Adj. 2.12	99.5
Material Description: REDDISH BROWN & GREY SILTY SANDY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 14/08/2021



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 14/08/2021



Brisbane Soil Testing

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46897
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202139
Project	COMMUNITY LINKS ESTATE – STAGE 5	Date Tested	12/08/2021	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
24276	7:30	150	LOT 101 12m Front bdy, 6m Right bdy R.L. 8.92	24276	-	14.0	13.5	Adj. 0.5 WET	2.24	Adj. 2.21	101.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS											
24277	8:00	150	LOT 100 12m Front bdy, 5m Left bdy R.L. 8.83	24277	-	14.0	13.5	Adj. 0.5 WET	2.19	Adj. 2.20	99.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS											
24278	8:30	150	LOT 98 11m Front bdy, 3m Right bdy R.L. 9.93	24278	-	16.0	15.0	Adj. 1.0 WET	2.18	Adj. 2.17	100.5
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS											
24279	9:00	150	LOT 125 11m Front bdy, 1m Left bdy R.L. 9.90	24279	-	12.5	12.0	Adj. 0.5 WET	2.24	Adj. 2.22	101.0
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 25/08/2021



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 25/08/2021



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46899
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202139
Project	COMMUNITY LINKS ESTATE – STAGE 5	Date Tested	13/08/2021	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
24301	8:30	150	LOT 101 17m Front bdy, 6m Left bdy R.L. 9.66	24301	-	10.0	11.0	Adj. 1.0 DRY	2.20	Adj. 2.15	102.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
24302	9:00	150	LOT 100 17m Front bdy, 3m Right bdy R.L. 9.47	24302	-	10.0	11.0	Adj. 1.0 DRY	2.20	Adj. 2.16	102.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 25/08/2021



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 25/08/2021



Brisbane Soil Testing

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	46918
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202139
Project	COMMUNITY LINKS ESTATE – STAGE 5	Date Tested	18/08/2021	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
24337	7:30	150	LOT 97 9m Rear bdy, 4m Left bdy R.L. 10.70	24337	-	9.5	10.5	Adj. 1.0 DRY	2.27	Adj. 2.11	107.5
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 31/08/2021



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: G MCGRANN

Greg McGrann/Manager

Approved Signatory

Date: 31/08/2021



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47110
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202139
Project	COMMUNITY LINKS ESTATE – STAGE 5	Date Tested	07/10/2021	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
24903	7:15	150	LOT 125 7m Rear bdy, 3m Right bdy R.L. 8.01	24903	-	10.0	9.5	Adj. 0.5 WET	2.20	Adj. 2.20	100.0
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 08/10/2021



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: G MCGRANN

Greg McGrann/Manager

Approved Signatory

Date: 08/10/2021



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ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47143
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202139
Project	COMMUNITY LINKS ESTATE – STAGE 5	Date Tested	18/10/2021	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
24952	9:00	150	LOT 125 8m Front bdy, 3m Right bdy R.L. 8.48	24952	-	11.0	11.5	Adj. 0.5 DRY	2.21	Adj. 2.10	105.0
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 20/10/2021



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 20/10/2021