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. 202218

28th of February 2023

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Glen Fuller

RE: THE JUNCTION – STAGE 1
(Allotment Fill– Geotechnical Inspection & Testing)

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 22nd of June 2022 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 a vibrating pad foot roller.

Forty-nine field density tests were carried between the 22nd of June 2022 and the 27th of February 2023. These tests recorded Dry Density Ratios between 95.5% and 104.5% relative to the standard compaction test and field moisture contents within –3.0% and +2.0% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Report Nos. 47685, 47686, 47696, 47699, 47703, 47745, 47747, 47780, 47781, 47782, 47784, 47804, 47806, 47808, 47810, 47814, 47832, 48232, 48251, 48262 & 48526) provide full test data for the compaction control tests.

The location of all tests taken are shown on the attached plan C-E0301 Issue 4 & C-E0302 Issue 4 titled "Allotment fill test locations".

No fill was placed on Lots 125-147 during our level 1 inspection and testing commission.

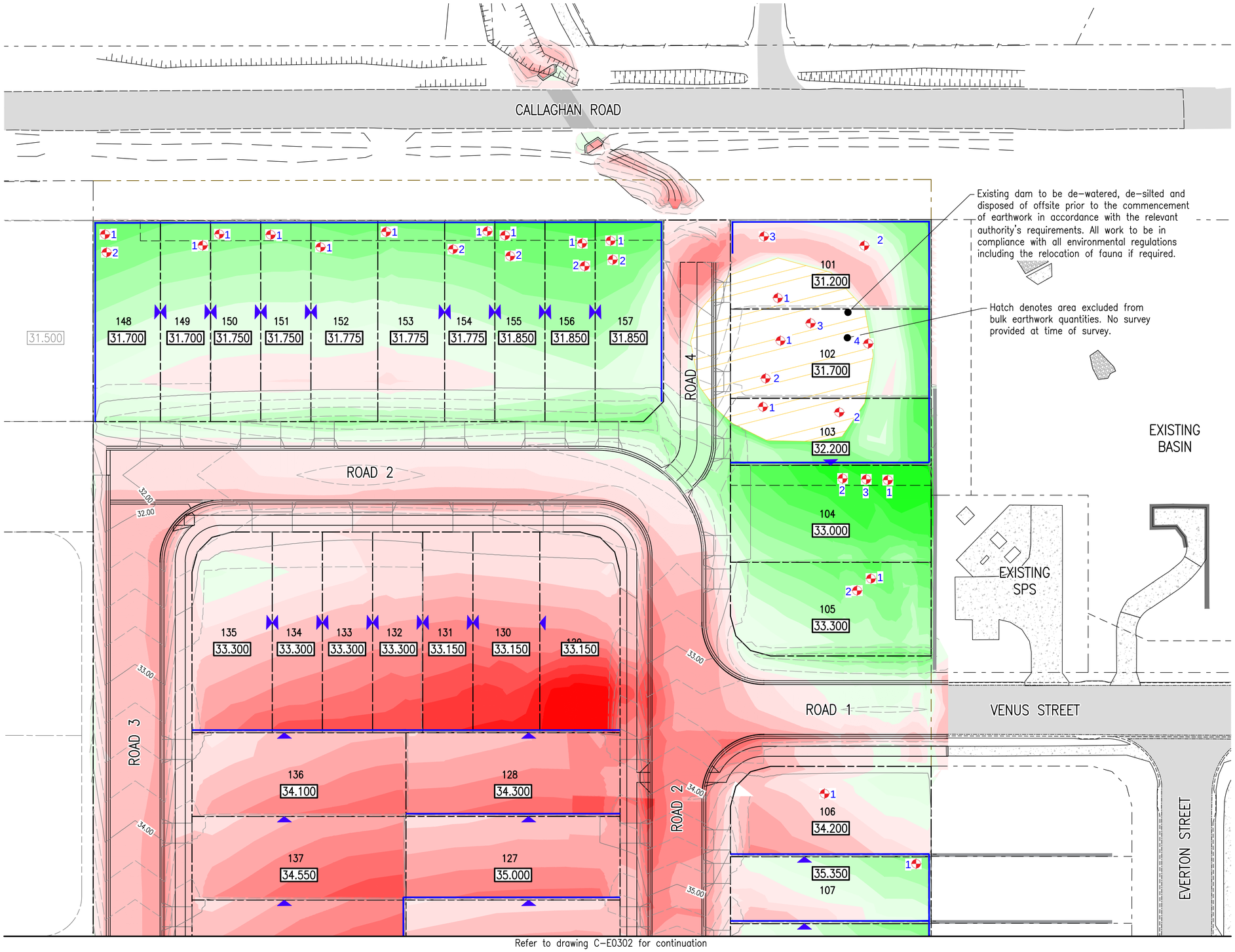
CONCLUSION

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

ALLOTMENT FILL TEST LOCATIONS



Refer to drawing C-E0302 for continuation

NOTE: Contours are finished surface levels within road reserve. Contours and pad levels are earthworks surface levels within lots (150mm below finished surface).

BULK EARTHWORKS LAYOUT PLAN - 1

Scale 1:300 (A1)

LEGEND:

- Existing Property Boundary
- Proposed Property Boundary
- Proposed Easement Boundary
- ###.## Pad Level
- ###.## Indicative Future Pad Level
- Build to Boundary Location
- Existing Retaining Wall
- Proposed Retaining Wall
- Indicative Future Driveway Location
- Design Minor Contours
- 609.00 Design Major Contours

PLAN NOTES:

P.1. Plan to be plotted in colour to distinguish between the ranges of cut and fill.
P.2. Intervals between data ranges – 0.25m.
P.3. Intervals between contours – 0.2m. Contours are design surface levels.
P.4. All volumes shown are solid state volumes and no bulking factors have been applied.
P.5. Volumes have been calculated based on a topsoil strip of 150mm.
P.6. Volumes are a comparison between stripped natural surface and subgrade surface.
P.7. Volumes are an estimate only as the existing structures had not been demolished when these plans were produced.

REFERENCE NOTES:

R.1. This drawing is to be read in conjunction with the earthworks and **erosion and sediment** control drawing set **(E Series)** and all drawings listed on **C-G0101**.
R.2. Refer to the **C-E0100** drawing set for **bulk earthworks** notes and details.
R.3. Refer to the **C-E0200** drawing set for **cut to fill extents** plan and **bulk earthworks volumes**.
R.4. Refer to the **C-E0400** drawing set for **bulk earthwork sections**.
R.5. Refer to the **C-E0500-E0700** drawing sets for **retaining walls**.
R.6. Refer to the **C-E0800-E0900** drawing sets for **erosion and sediment control**.
R.7. Refer to the **C-R0200** drawing set for **pavement design** plans.

CUT & FILL LEGEND

	Colour	Data Range [m]
FILL		> 2.00
		2.00 to 1.80
		1.80 to 1.60
		1.60 to 1.40
		1.40 to 1.20
		1.20 to 1.00
		1.00 to 0.80
		0.80 to 0.60
		0.60 to 0.40
		0.40 to 0.20
		0.20 to 0.00
CUT		0.00 to -0.20
		-0.20 to -0.40
		-0.40 to -0.60
		-0.60 to -0.80
		-0.80 to -1.00
		-1.00 to -1.20
		-1.20 to -1.40
		-1.40 to -1.60
		-1.60 to -1.80
		-1.80 to -2.00
		> -2.00

SCALE BARS
0 3 6 9 12m
1:300(A1) 1:600(A3)

ISSUE	DESCRIPTION	DATE	DWN	DES	CHK	APP
4	FOR CONSTRUCTION	09/06/22	MDL	ART	DAW	DAW
3	FOR APPROVAL	06/05/22	ART	ART	DAW	DAW
2	FOR APPROVAL	13/04/22	ART	ART	DAW	DAW
1	FOR APPROVAL	21/03/22	RNJ	ART	DAW	DAW
0	FOR APPROVAL	23/12/21	TJC	ARB	DAW	DAW

RMA Engineers
www.rmaeng.com.au

CLIENT
ORCHARD (NARANGBA) DEVELOPMENTS PTY LTD
PO BOX 9094 GOLD COAST M.C. 9726

PROJECT
THE JUNCTION
265 CALLAGHAN ROAD
NARANGBA QLD 4504

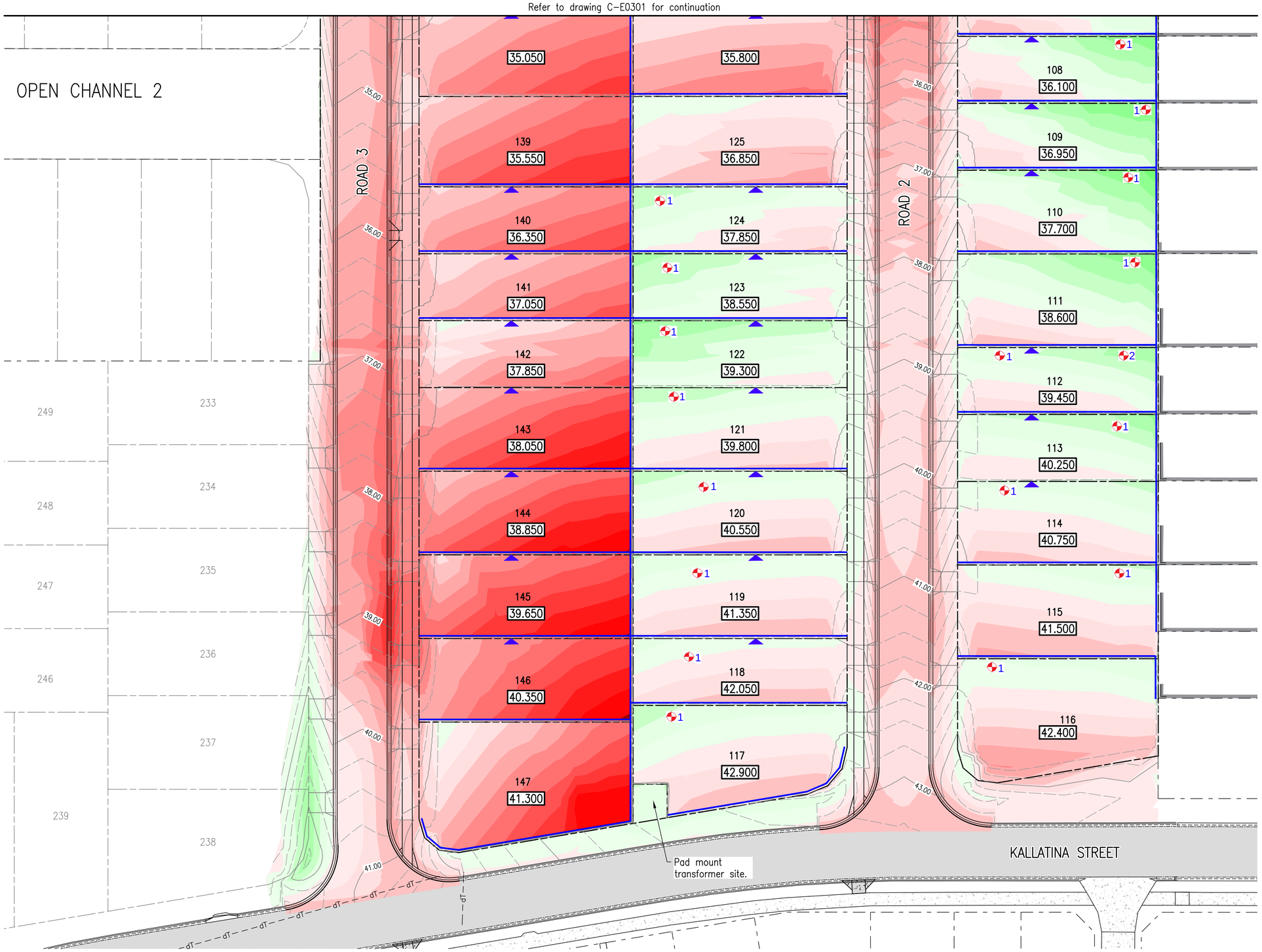
TITLE
BULK EARTHWORKS LAYOUT PLAN - 1

R.P.E.Q.
RMA Engineers
David Waldock
RPEQ 18202

HEIGHT DATUM	GRID	SIZE
AHD	MGA-56	A1

COUNCIL RAL/MCU NO. DA/2021/1519
COUNCIL OW NO. DA/2022/0990
PROJECT NO. 14883
DRAWING NO. C-E0301
ISSUE 4

Last saved: Mark Lobwein
Copyright©: RMA ENGINEERS PTY LTD
N:\Synergy\Projects\14883 Subdivision - 265 Callaghan Rd\3 Drafting\Acad\C-E0101-E0401.dwg



BULK EARTHWORKS LAYOUT PLAN – 2

Scale 1:300 (A1)

NOTE: Contours are finished surface levels within road reserve. Contours and pad levels are earthworks surface levels within lots (150mm below finished surface).

LEGEND:

- Existing Property Boundary
- Proposed Property Boundary
- Proposed Easement Boundary
- ###.## Pad Level
- ###.## Indicative Future Pad Level
- Build to Boundary Location
- Existing Retaining Wall
- Proposed Retaining Wall
- Indicative Future Driveway Location
- Design Minor Contours
- 609.00 Design Major Contours

PLAN NOTES:

P.1. Plan to be plotted in colour to distinguish between the ranges of cut and fill.
P.2. Intervals between data ranges – 0.25m.
P.3. Intervals between contours – 0.2m. Contours are design surface levels.
P.4. All volumes shown are solid state volumes and no bulking factors have been applied.
P.5. Volumes have been calculated based on a topsoil strip of 150mm.
P.6. Volumes are a comparison between stripped natural surface and subgrade surface.
P.7. Volumes are an estimate only as the existing structures had not been demolished when these plans were produced.

REFERENCE NOTES:

R.1. This drawing is to be read in conjunction with the earthworks and **erosion and sediment** control drawing set **(E Series)** and all drawings listed on **C-G0101**.
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R.4. Refer to the **C-E0400** drawing set for **bulk earthwork sections**.
R.5. Refer to the **C-E0500-E0700** drawing sets for **retaining walls**.
R.6. Refer to the **C-E0800-E0900** drawing sets for **erosion and sediment control**.
R.7. Refer to the **C-R0200** drawing set for **pavement design** plans.

CUT & FILL LEGEND

	Colour	Data Range [m]
FILL		> 2.00
		2.00 to 1.80
		1.80 to 1.60
		1.60 to 1.40
		1.40 to 1.20
		1.20 to 1.00
		1.00 to 0.80
		0.80 to 0.60
		0.60 to 0.40
		0.40 to 0.20
		0.20 to 0.00
CUT		0.00 to -0.20
		-0.20 to -0.40
		-0.40 to -0.60
		-0.60 to -0.80
		-0.80 to -1.00
		-1.00 to -1.20
		-1.20 to -1.40
		-1.40 to -1.60
		-1.60 to -1.80
		-1.80 to -2.00
		> -2.00

SCALE BARS

0 3 6 9 12m
1:300(A1) 1:600(A3)

ISSUE	DESCRIPTION	DATE	DWN	DES	CHK	APP
4	FOR CONSTRUCTION	09/06/22	MDL	ART	DAW	DAW
3	FOR APPROVAL	06/05/22	ART	ART	DAW	DAW
2	FOR APPROVAL	13/04/22	ART	ART	DAW	DAW
1	FOR APPROVAL	21/03/22	RNJ	ART	DAW	DAW
0	FOR APPROVAL	23/12/21	TJC	ARB	DAW	DAW

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT NOTES ON DRAWING G0102

VERIFY ALL ON SITE DIMENSIONS AND LEVELS PRIOR TO CONSTRUCTION. NOTIFY RMA IMMEDIATELY OF ANY DISCREPANCIES

RMA Engineers
www.rmaeng.com.au

CLIENT
ORCHARD (NARANGBA) DEVELOPMENTS PTY LTD
PO BOX 9094 GOLD COAST M.C. 9726

PROJECT
THE JUNCTION
265 CALLAGHAN ROAD
NARANGBA QLD 4504

TITLE
BULK EARTHWORKS LAYOUT PLAN - 2

R.P.E.Q.
RMA Engineers
David Waldock
RPEQ 18202

HEIGHT DATUM	GRID	SIZE
AHD	MGA-56	A1

COUNCIL RAL/MCU NO. DA/2021/1519
COUNCIL OW NO. DA/2022/0990

PROJECT NO.	DRAWING NO.	ISSUE
14883	C-E0302	4

Last saved: Mark Lobwein

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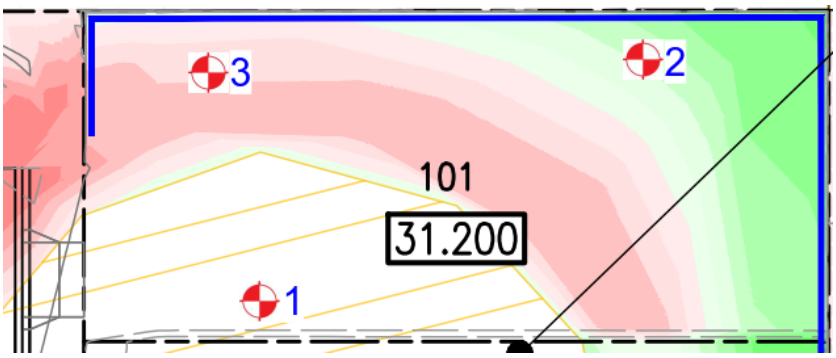
EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 101



Field Density Results **Page 1of 1**

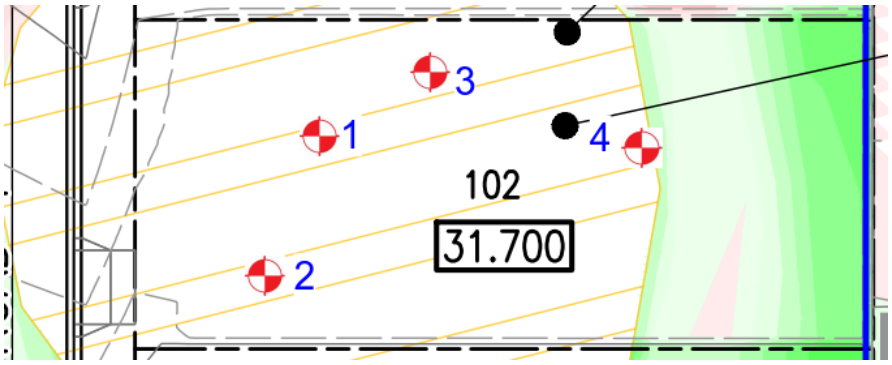
Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26365)	19/07/2022	o/s 10m Front bdy, o/s 3m Right bdy	R.L. 29.83	102.0
2 (26374)	26/07/2022	o/s 12m Rear bdy, o/s 3m Left bdy	R.L. 30.64	98.0
3 (26392)	28/07/2022	o/s 8m Front bdy, o/s 5m Left bdy	R.L. 31.04	96.0

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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 102



Field Density Results **Page 1of 1**

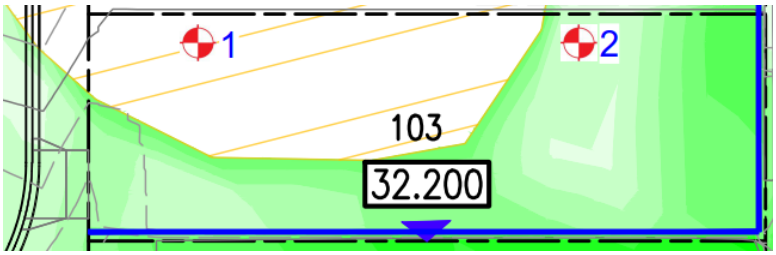
Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26339)	16/07/2022	o/s 9m Front bdy, o/s 5m Left bdy	R.L. 29.92	100.0
2 (26340)	18/07/2022	o/s 7m Front bdy, o/s 3m Right bdy	R.L. 30.51	97.5
3 (26375)	26/07/2022	o/s 13m Front bdy, o/s 2m Left bdy	R.L. 30.97	98.5
4 (26420)	29/07/2022	o/s 8m Rear bdy, o/s 5m Left bdy	R.L. 31.48	100.5

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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 103



Field Density Results

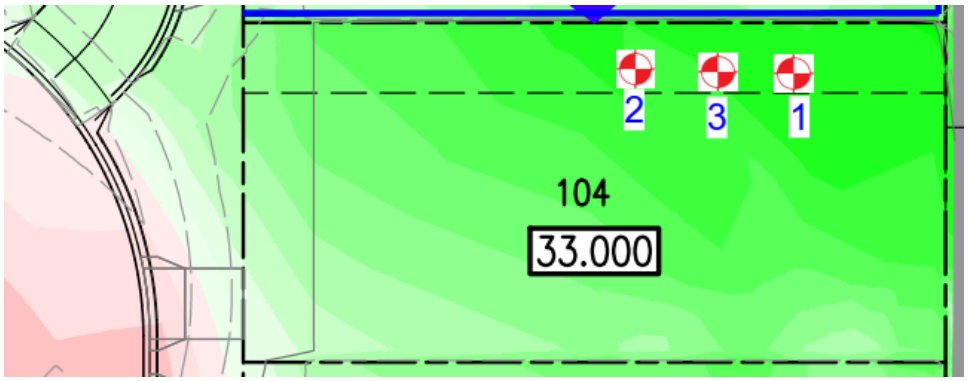
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26341)	18/07/2022	o/s 9m Front bdy, o/s 1m Left bdy R.L. 31.32	102.5
2 (26434)	02/08/2022	o/s 13m Rear bdy, o/s 2m Left bdy R.L. 31.90	102.0

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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 104



Field Density Results **Page 1of 1**

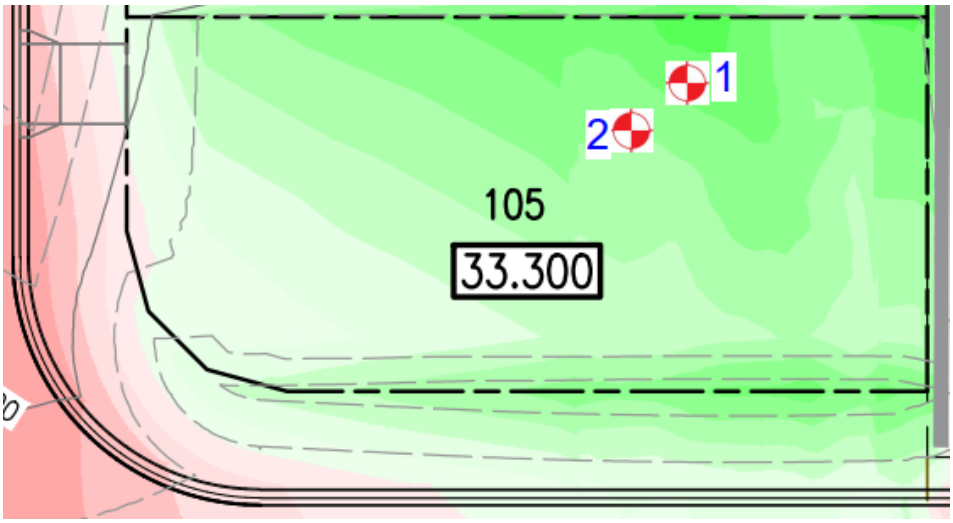
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26393)	28/07/2022	o/s 9m Rear bdy, o/s 3m Left bdy R.L. 31.61	99.0
2 (26435)	02/08/2022	o/s 14m Rear bdy, o/s 3m Left bdy R.L. 32.30	98.0
3 (26447)	03/08/2022	o/s 11m Rear bdy, o/s 3m Left bdy R.L. 32.84	101.0

In our opinion all fill on Lot 104 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 105



Field Density Results **Page 1of 1**

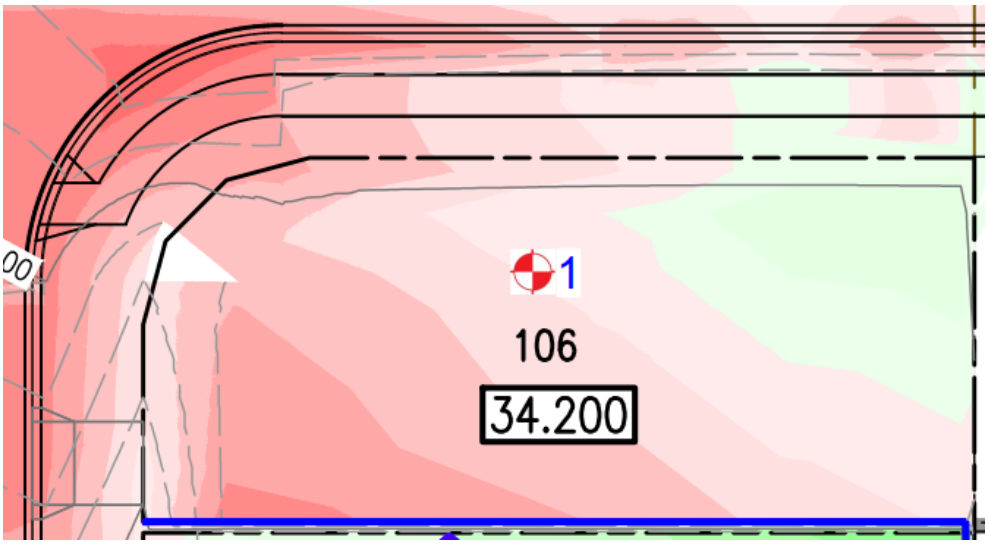
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (27564)	29/11/2022	o/s 9m Rear bdy, o/s 2m Left bdy R.L. 32.64	100.0
2 (27577)	30/11/2022	o/s 12m Rear bdy, o/s 4m Left bdy R.L. 33.08	98.5

In our opinion all fill on Lot 105 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 106



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (28178)	27/02/2023	o/s 11m Front bdy, o/s 4m Left bdy R.L. 33.95	96.0

In our opinion all fill on Lot 106 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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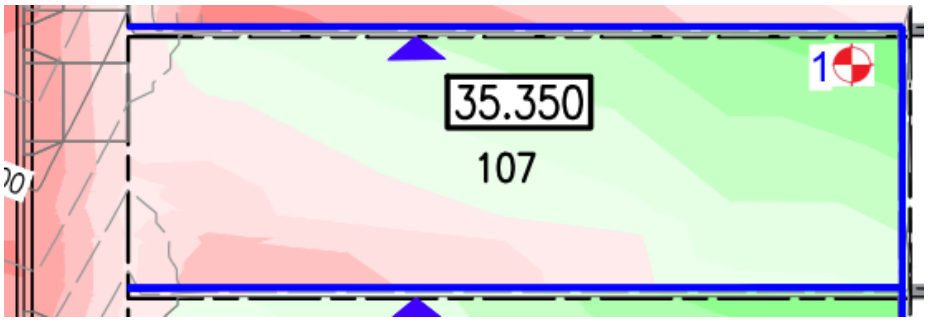
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 107



Field Density Results **Page 1of 1**

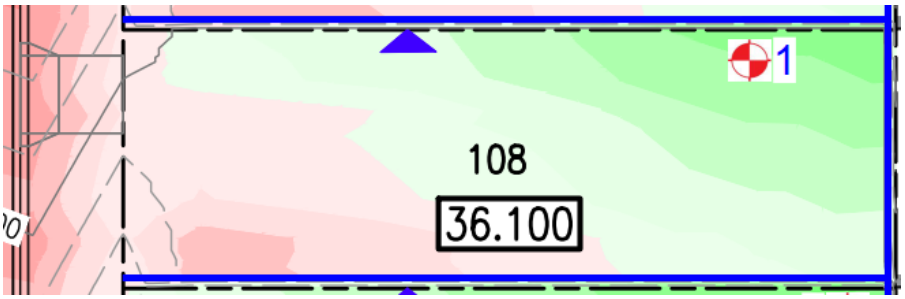
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26157)	23/06/2022	o/s 4m Rear bdy, o/s 2m Left bdy R.L. 35.21	103.0

In our opinion all fill on Lot 107 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 108



Field Density Results **Page 1of 1**

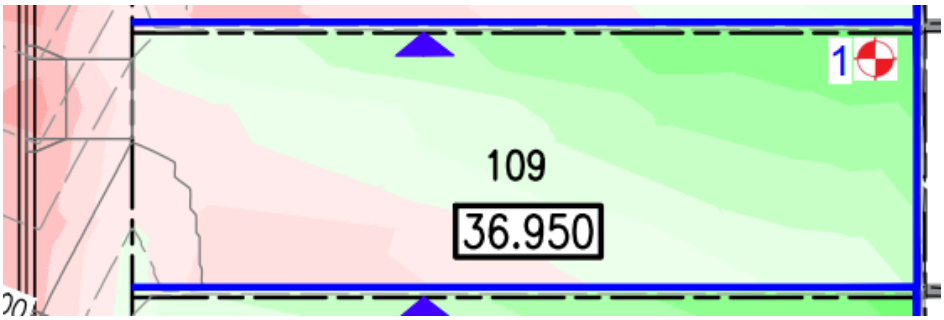
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26342)	18/07/2022	o/s 8m Rear bdy, o/s 2m Left bdy R.L. 36.12	102.0

In our opinion all fill on Lot 108 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 109



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26156)	23/06/2022	o/s 3m Rear bdy, o/s 1m Left bdy R.L. 36.68	101.5

In our opinion all fill on Lot 109 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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Kallangur, Q. 4503
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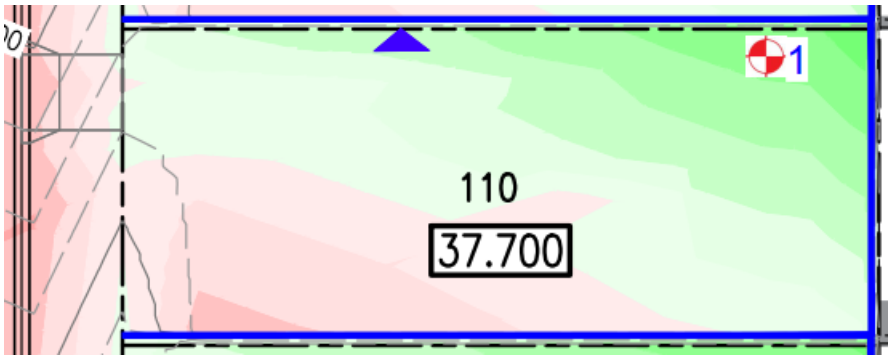
EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 110



Field Density Results **Page 1of 1**

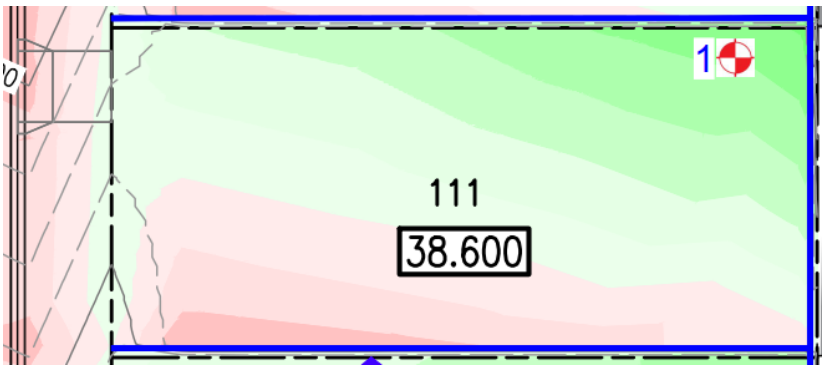
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26316)	12/07/2022	o/s 7m Rear bdy, o/s 2m Left bdy R.L. 37.55	102.5

In our opinion all fill on Lot 110 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 111



Field Density Results **Page 1of 1**

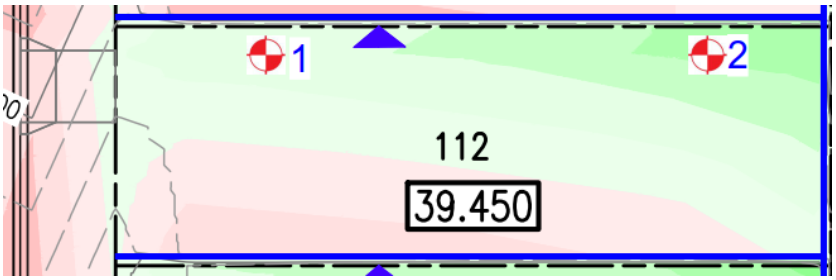
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26315)	12/07/2022	o/s 6m Rear bdy, o/s 2m Left bdy R.L. 38.49	99.5

In our opinion all fill on Lot 111 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 112



Field Density Results **Page 1of 1**

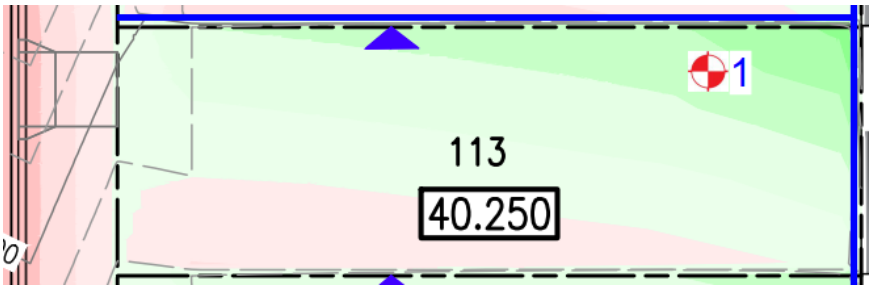
Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26314)	12/07/2022	o/s 10m Front bdy, o/s 2m Left bdy	R.L. 39.40	103.5
2 (26327)	15/07/2022	o/s 8m Rear bdy, o/s 3m Left bdy	R.L. 39.38	102.0

In our opinion all fill on Lot 112 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 113



Field Density Results **Page 1of 1**

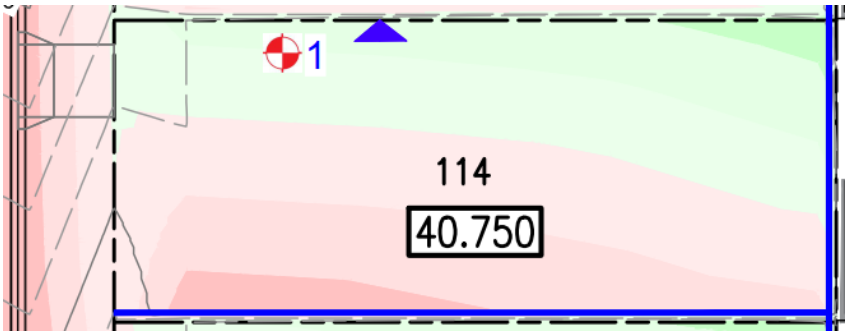
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26326)	15/07/2022	o/s 10m Rear bdy, o/s 4m Left bdy R.L. 40.22	95.5

In our opinion all fill on Lot 113 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 114



Field Density Results **Page 1of 1**

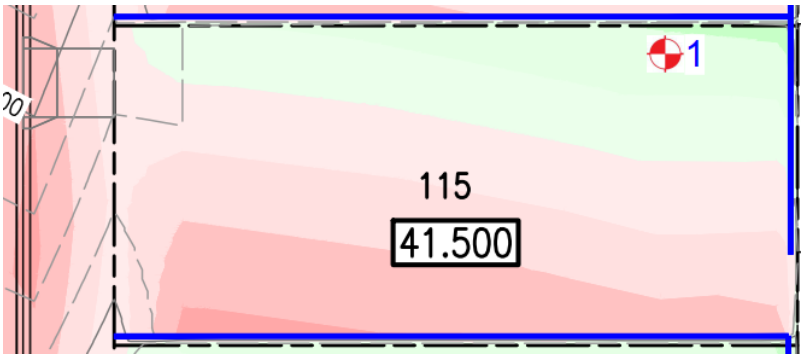
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26312)	12/07/2022	o/s 12m Front bdy, o/s 2m Left bdy R.L. 40.77	102.0

In our opinion all fill on Lot 114 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 115



Field Density Results **Page 1of 1**

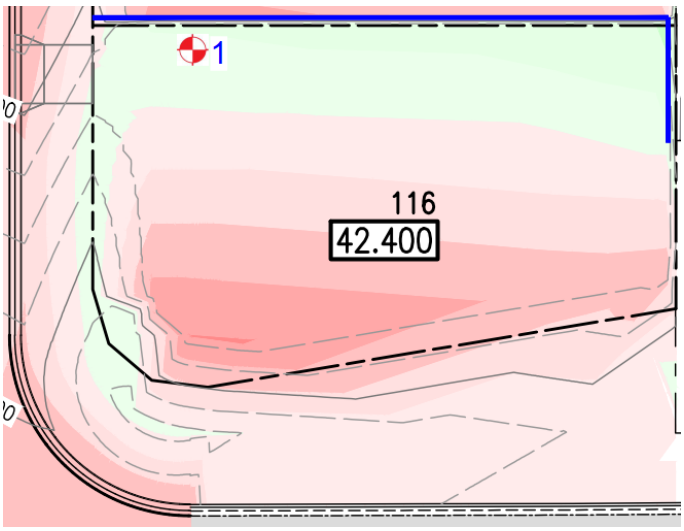
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26311)	12/07/2022	o/s 9m Rear bdy, o/s 2m Left bdy R.L. 41.52	101.0

In our opinion all fill on Lot 115 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 116



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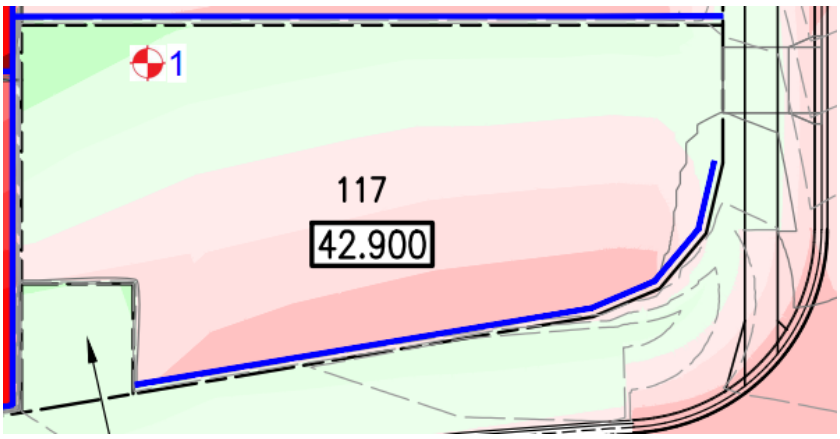
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26313)	12/07/2022	o/s 8m Front bdy, o/s 1m Left bdy R.L. 42.46	99.5

In our opinion all fill on Lot 116 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 117



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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26493)	05/08/2022	o/s 8m Rear bdy, o/s 3m Right bdy R.L.	98.5

In our opinion all fill on Lot 117 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

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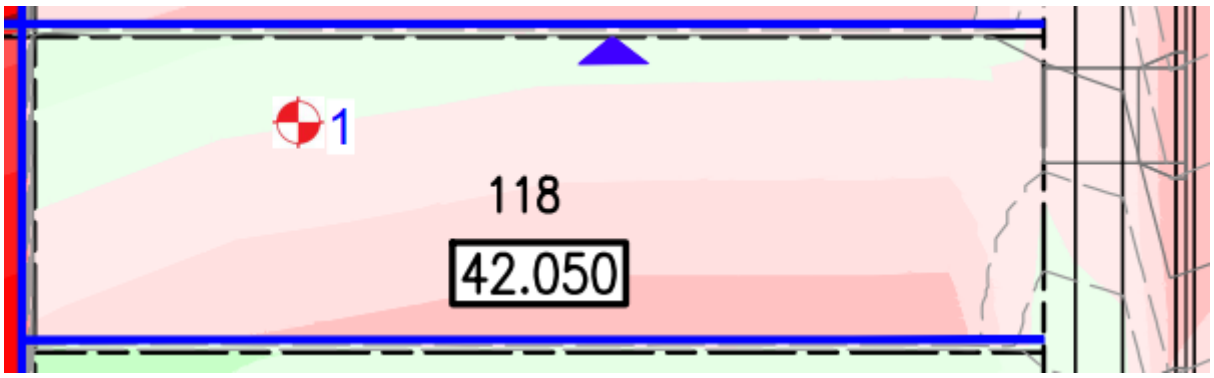
THE JUNCTION – STAGE 1
LOT 118



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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26492)	05/08/2022	o/s 7m Rear bdy, o/s 2m Right bdy R.L.	98.0

In our opinion all fill on Lot 118 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.

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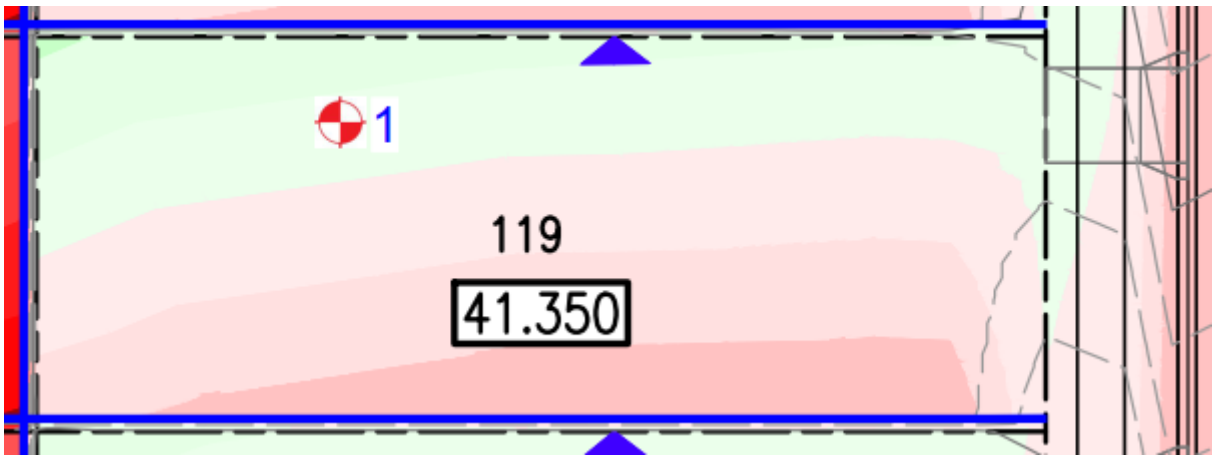
GREG McGRANN

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 119



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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26491)	05/08/2022	o/s 10m Rear bdy, o/s 3m Right bdy R.L.	96.5

In our opinion all fill on Lot 119 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.

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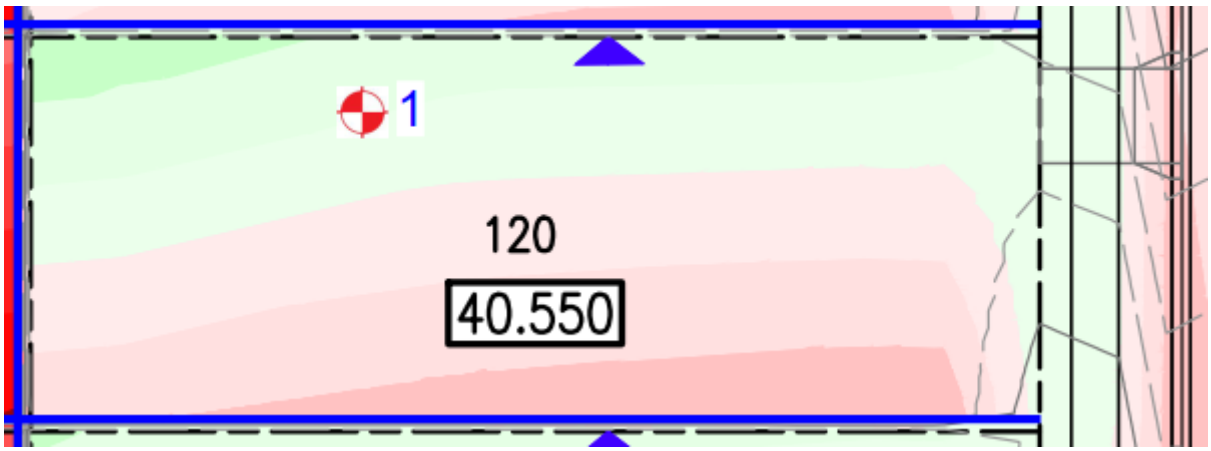
GREG McGRANN

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 120



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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26490)	05/08/2022	o/s 12m Rear bdy, o/s 3m Right bdy R.L.	96.0

In our opinion all fill on Lot 120 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.

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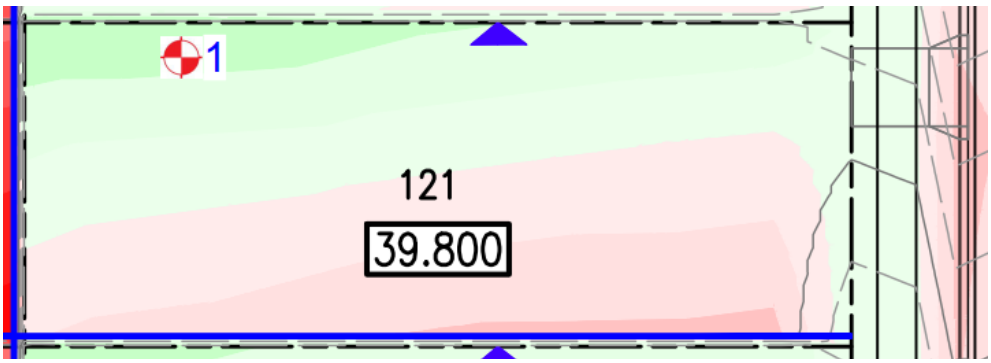
GREG McGRANN

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 121



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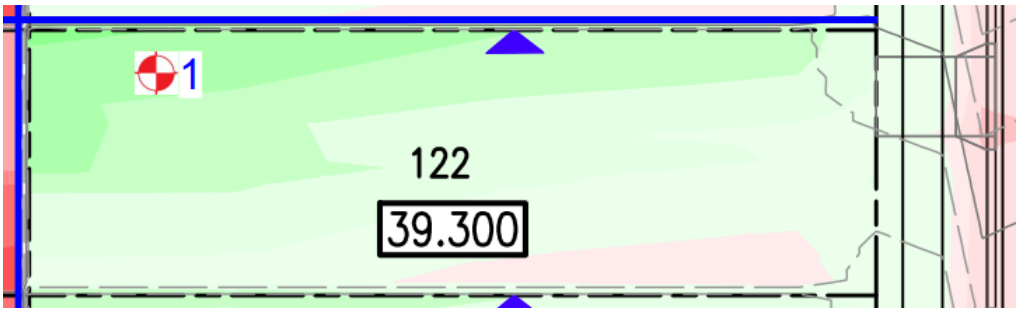
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26292)	11/07/2022	o/s 10m Rear bdy, o/s 2m Right bdy R.L. 39.81	102.0

In our opinion all fill on Lot 121 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 122



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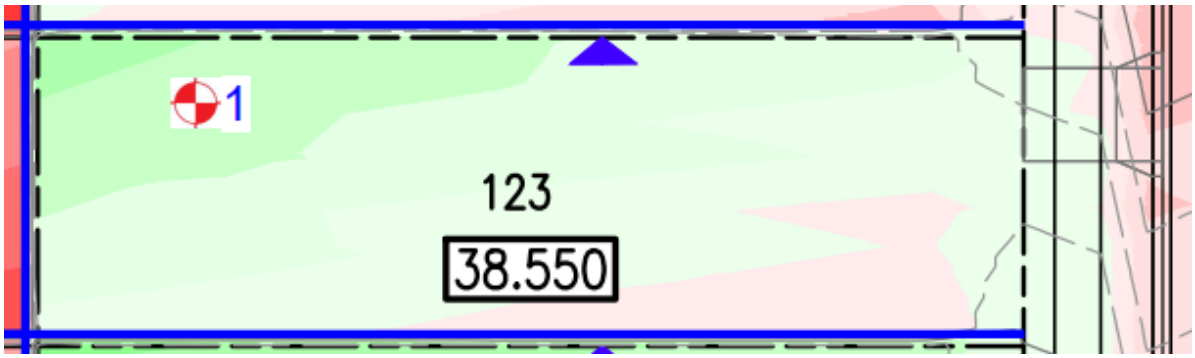
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26293)	11/07/2022	o/s 7m Rear bdy, o/s 3m Left bdy R.L. 39.22	104.0

In our opinion all fill on Lot 122 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 123



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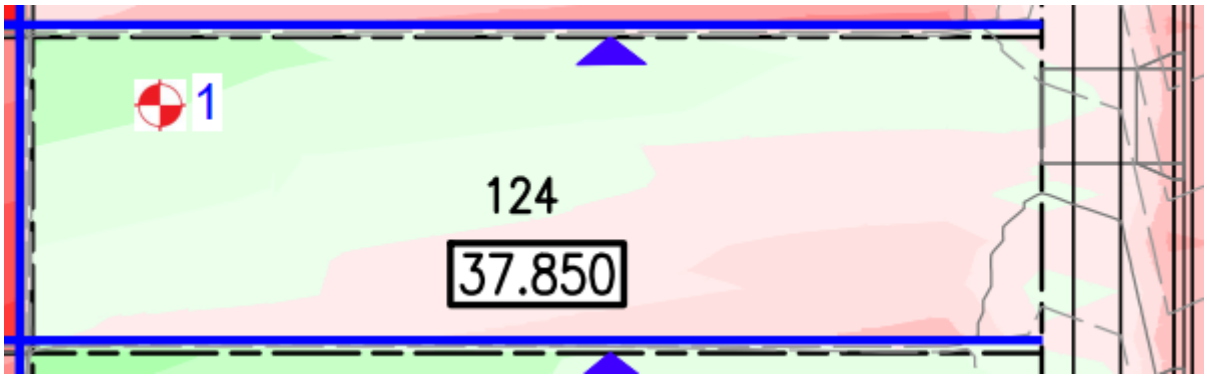
Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (27480)	21/11/2022	o/s 6m Rear bdy, o/s 2m Right bdy	R.L. 38.38	98.5

In our opinion all fill on Lot 123 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 124



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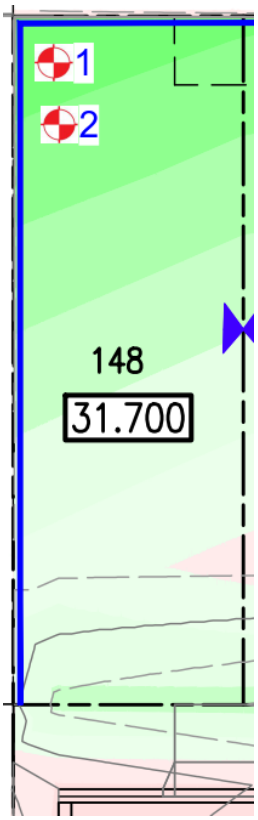
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (27481)	21/11/2022	o/s 4m Rear bdy, o/s 2m Right bdy R.L. 37.60	99.0

In our opinion all fill on Lot 124 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 148



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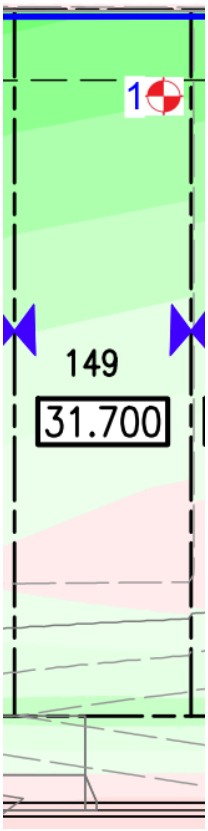
Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26218)	28/06/2022	o/s 4m Rear bdy, o/s 3m Left bdy	R.L. 31.08	103.0
2 (26250)	30/06/2022	o/s 9m Rear bdy, o/s 4m Left bdy	R.L. 31.50	100.0

In our opinion all fill on Lot 148 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 149



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26219)	28/06/2022	o/s 8m Rear bdy, o/s 2m Right bdy R.L. 31.47	100.5

In our opinion all fill on Lot 149 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.

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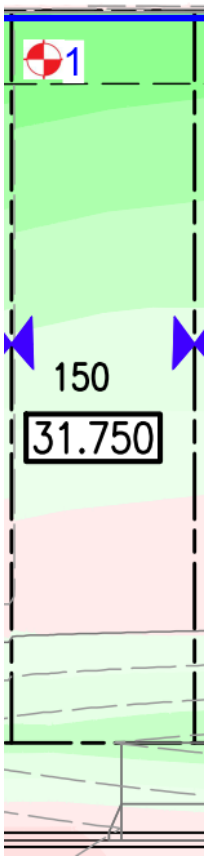
GREG McGRANN

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 150



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26220)	28/06/2022	o/s 5m Rear bdy, o/s 3m Left bdy R.L. 31.45	100.0

In our opinion all fill on Lot 150 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.

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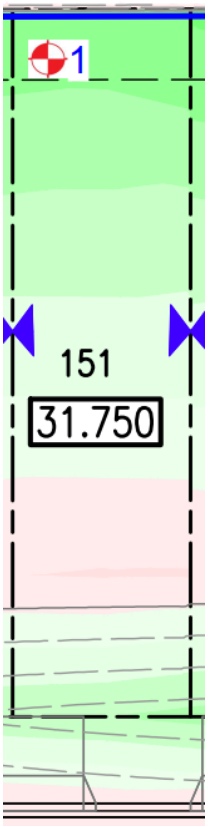
GREG McGRANN

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 151



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26192)	27/06/2022	o/s 4m Rear bdy, o/s 3m Left bdy R.L. 31.50	103.0

In our opinion all fill on Lot 151 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.

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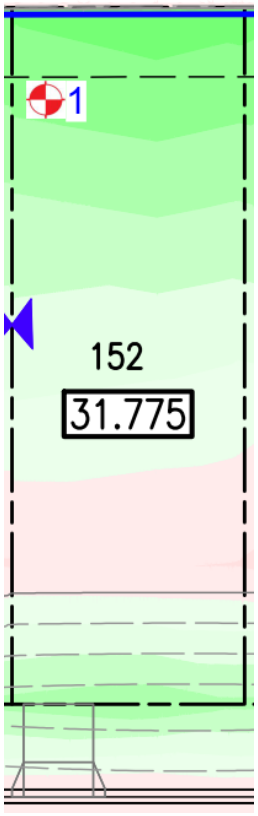
GREG McGRANN

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 152



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26213)	27/06/2022	o/s 7m Rear bdy, o/s 3m Left bdy R.L. 31.53	101.5

In our opinion all fill on Lot 152 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.

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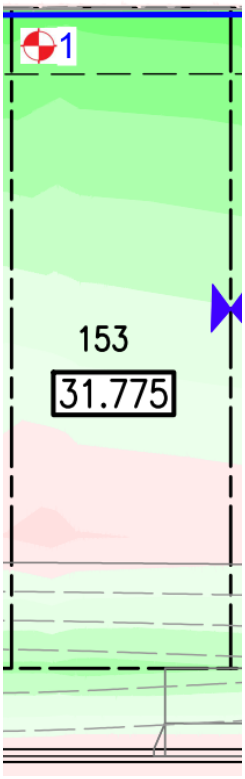
GREG McGRANN

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 153



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26191)	27/06/2022	o/s 3m Rear bdy, o/s 2m Left bdy R.L. 31.58	103.0

In our opinion all fill on Lot 153 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.

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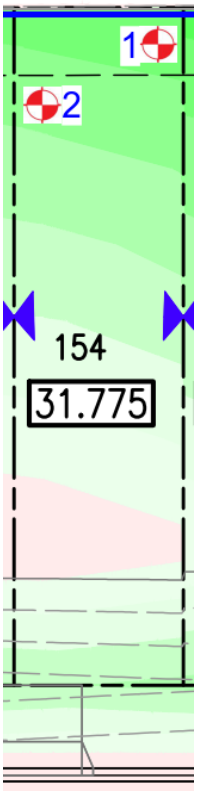
GREG McGRANN

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 154



Field Density Results **Page 1of 1**

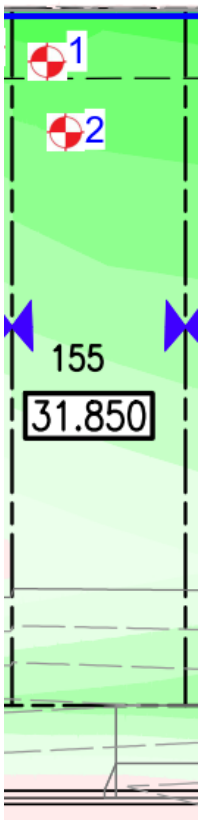
Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26147)	22/06/2022	o/s 3m Rear bdy, o/s 2m Right bdy	R.L. 31.17	99.5
2 (26221)	28/06/2022	o/s 9m Rear bdy, o/s 2m Left bdy	R.L. 31.56	103.0

In our opinion all fill on Lot 154 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 155



Field Density Results **Page 1of 1**

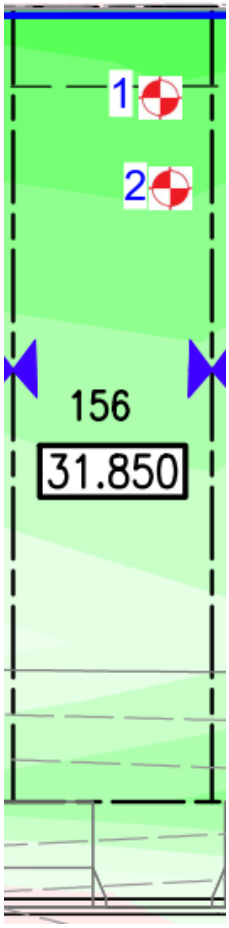
Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26144)	22/06/2022	o/s 4m Rear bdy, o/s 3m Left bdy	R.L. 31.29	101.0
2 (26190)	27/06/2022	o/s 8m Rear bdy, o/s 3m Left bdy	R.L. 31.64	104.5

In our opinion all fill on Lot 155 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 156



Field Density Results **Page 1of 1**

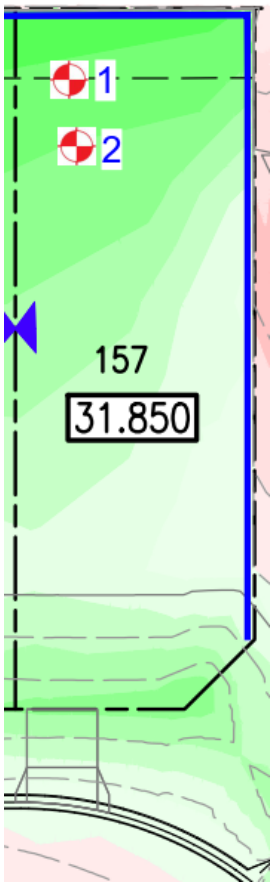
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26146)	22/06/2022	o/s 5m Rear bdy, o/s 3m Right bdy R.L. 31.25	102.0
2 (26212)	27/06/2022	o/s 10m Rear bdy, o/s 3m Right bdy R.L. 31.61	101.0

In our opinion all fill on Lot 156 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

EARTHWORKS SUMMARY REPORT
THE JUNCTION – STAGE 1
LOT 157



Field Density Results **Page 1of 1**

Test No.	Date Tested	Test Location		Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (26145)	22/06/2022	o/s 3m Rear bdy, o/s 2m Left bdy	R.L. 31.03	103.0
2 (26158)	23/06/2022	o/s 6m Rear bdy, o/s 3m Left bdy	R.L. 31.40	102.5

In our opinion all fill on Lot 157 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

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur, Q. 4503
Ph. (07) 3285 6536

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47685
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	22/06/2022	Tested by	GM

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 %
26144	10:15	150	LOT 155 4m Rear bdy, 3m Left bdy R.L. 31.29	26144	-	27.5	27.5	~~Adj.~~ -	1.97	~~Adj.~~ 1.95	**101.0**
			Material Description: GREY BROWN CLAY								
26145	11:40	150	LOT 157 3m Rear bdy, 2m Left bdy R.L. 31.03	26145	-	29.0	29.5	~~Adj.~~ 0.5 DRY	1.98	~~Adj.~~ 1.92	**103.0**
			Material Description: DARK BROWN CLAY								
26146	13:20	150	LOT 156 5m Rear bdy, 3m Right bdy R.L. 31.25	26146	-	31.5	30.5	~~Adj.~~ 1.0 WET	1.94	~~Adj.~~ 1.90	**102.0**
			Material Description: DARK BROWN CLAY								
26147	14:10	150	LOT 154 3m Rear bdy, 2m Right bdy R.L. 31.17	26147	-	31.0	29.0	~~Adj.~~ 2.0 WET	1.93	~~Adj.~~ 1.94	**99.5**
			Material Description: DARK GREY BROWN CLAY								
								~~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: 27/06/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 27/06/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47686
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	23/06/2022	Tested by	GM

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 %
26156	7:15	150	LOT 109 3m Rear bdy, 1m Left bdy R.L. 36.68	26156	-	28.5	27.5	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.92	**101.5**
				Material Description: BROWN SOME GREY CLAY							
26157	8:00	150	LOT 107 4m Rear bdy, 2m Left bdy R.L. 35.21	26157	-	31.5	30.5	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.89	**103.0**
				Material Description: BROWN SOME RED CLAY							
26158	9:30	150	LOT 157 6m Rear bdy, 3m Left bdy R.L. 31.40	26158	-	30.5	29.5	~~Adj.~~ 1.0 WET	1.94	~~Adj.~~ 1.89	**102.5**
				Material Description: DARK GREY BROWN CLAY							
								~~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: 27/06/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 27/06/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47696
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	27/06/2022	Tested by	GM

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 %
26190	7:45	150	LOT 155 8m Rear bdy, 3m Left bdy R.L. 31.64	26190	-	34.0	35.0	~~Adj.~~ 1.0 DRY	1.90	~~Adj.~~ 1.82	**104.5**
				Material Description: GREY BROWN CLAY							
26191	8:30	150	LOT 153 3m Rear bdy, 2m Left bdy R.L. 31.58	26191	-	32.0	32.5	~~Adj.~~ 0.5 DRY	1.92	~~Adj.~~ 1.86	**103.0**
				Material Description: BROWN CLAY							
26192	10:45	150	LOT 151 4m Rear bdy, 3m Left bdy R.L. 31.50	26192	-	32.0	32.0	~~Adj.~~ -	1.95	~~Adj.~~ 1.89	**103.0**
				Material Description: GREY BROWN CLAY & ROCK FRAGMENTS							
26212	13:00	150	LOT 156 10m Rear bdy, 3m Right bdy R.L. 31.61	26212	-	31.0	30.0	~~Adj.~~ 1.0 WET	1.93	~~Adj.~~ 1.91	**101.0**
				Material Description: DARK GREY BROWN CLAY							
26213	13:35	150	LOT 152 7m Rear bdy, 3m Left bdy R.L. 31.53	26213	-	34.5	33.5	~~Adj.~~ 1.0 WET	1.91	~~Adj.~~ 1.88	**101.5**
				Material Description: GREY BROWN CLAY & ROCK FRAGMENTS							
								~~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: 30/06/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 30/06/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47699
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	28/06/2022	Tested by	GM

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 %
26218	7:40	150	LOT 148 4m Rear bdy, 3m Left bdy R.L. 31.08	26218	-	26.0	27.5	~~Adj.~~ 1.5 DRY	2.01	~~Adj.~~ 1.95	**103.0**
				Material Description: GREY BROWN SILTY CLAY							
26219	9:00	150	LOT 149 8m Rear bdy, 2m Right bdy R.L. 31.47	26219	-	31.0	30.0	~~Adj.~~ 1.0 WET	1.94	~~Adj.~~ 1.93	**100.5**
				Material Description: GREY BROWN SILTY CLAY							
26220	9:30	150	LOT 150 5m Rear bdy, 3m Left bdy R.L. 31.45	26220	-	33.5	33.0	~~Adj.~~ 0.5 WET	1.92	~~Adj.~~ 1.92	**100.0**
				Material Description: GREY BROWN CLAY & ROCK FRAGMENTS							
26221	11:15	150	LOT 154 9m Rear bdy, 2m Left bdy R.L. 31.56	26221	-	28.5	29.0	~~Adj.~~ 0.5 DRY	1.99	~~Adj.~~ 1.93	**103.0**
				Material Description: BROWN MOTTLED RED CLAY							
								~~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: 04/07/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 04/07/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47703
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	30/06/2022	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% 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 %
26250	8:40	150	LOT 148 9m Rear bdy, 4m Left bdy R.L. 31.50	26250	-	34.0	32.0	~~Adj.~~ 2.0 WET	1.90	~~Adj.~~ 1.90	**100.0**
				Material Description: BROWN MOTTLED RED CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~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: 04/07/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 04/07/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47745
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	11/07/2022	Tested by	GM

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 %
26292	11:50	150	LOT 121 10m Rear bdy, 2m Right bdy R.L. 39.81	26292	-	24.5	23.5	~~Adj.~~ 1.0 WET	2.00	~~Adj.~~ 1.96	**102.0**
				Material Description: REDDISH BROWN & GREY CLAY							
26293	13:20	150	LOT 122 7m Rear bdy, 3m Left bdy R.L. 39.22	26293	-	24.5	25.0	~~Adj.~~ 0.5 DRY	2.03	~~Adj.~~ 1.95	**104.0**
				Material Description: REDDISH BROWN & GREY 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: 14/07/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 14/07/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47747
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	12/07/2022	Tested by	GM

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 %
26311	8:50	150	LOT 115 9m Rear bdy, 2m Left bdy R.L. 41.52	26311	-	26.5	25.5	~~Adj.~~ 1.0 WET	1.98	~~Adj.~~ 1.96	**101.0**
				Material Description: REDDISH GREY CLAY							
26312	9:20	150	LOT 114 12m Front bdy, 2m Left bdy R.L. 40.77	26312	-	23.5	25.0	~~Adj.~~ 1.5 DRY	1.97	~~Adj.~~ 1.93	**102.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
26313	9:55	150	LOT 116 8m Front bdy, 1m Left bdy R.L. 42.46	26313	-	23.5	22.5	~~Adj.~~ 1.0 WET	1.95	~~Adj.~~ 1.96	**99.5**
				Material Description: REDDISH BROWN SILTY SANDY CLAY							
26314	10:50	150	LOT 112 10m Front bdy, 2m Left bdy R.L. 39.40	26314	-	23.0	24.0	~~Adj.~~ 1.0 DRY	2.03	~~Adj.~~ 1.96	**103.5**
				Material Description: BROWN SOME RED SILTY CLAY							
26315	12:40	150	LOT 111 6m Rear bdy, 2m Left bdy R.L. 38.49	26315	-	25.0	25.0	~~Adj.~~ -	1.92	~~Adj.~~ 1.93	**99.5**
				Material Description: REDDISH GREY SILTY CLAY							
26316	13:15	150	LOT 110 7m Rear bdy, 2m Left bdy R.L. 37.55	26316	-	27.0	26.0	~~Adj.~~ 1.0 WET	1.99	~~Adj.~~ 1.94	**102.5**
				Material Description: GREY BROWN SILTY CLAY							

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: 14/07/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 14/07/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47780
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	15/07/2022	Tested by	JM

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 %
26326	11:00	150	LOT 113 10m Rear bdy, 4m Left bdy R.L. 40.22	26326	-	24.0	25.0	~~Adj.~~ 1.0 DRY	1.85	~~Adj.~~ 1.94	**95.5**
				Material Description: REDDISH BROWN SILTY CLAY							
26327	11:30	150	LOT 112 8m Rear bdy, 3m Left bdy R.L. 39.38	26327	-	25.0	25.5	~~Adj.~~ 0.5 DRY	1.93	~~Adj.~~ 1.89	**102.0**
				Material Description: REDDISH BROWN SILTY 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: 22/07/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 22/07/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47781
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	16/07/2022	Tested by	JM

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 %
26339	10:00	150	LOT 102 9m Front bdy, 5m Left bdy R.L. 29.92	26339	-	25.0	25.0	~~Adj.~~ -	1.94	~~Adj.~~ 1.94	**100.0**
				Material Description: GREY BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~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: 22/07/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 22/07/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47782
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	18/07/2022	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% 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 %
26340	10:00	150	LOT 102 7m Front bdy, 3m Right bdy R.L. 30.51	26340	-	23.5	23.0	~~Adj.~~ 0.5 WET	1.87	~~Adj.~~ 1.92	**97.5**
				Material Description: GREY BROWN SILTY CLAY & MUDSTONE FRAGMENTS							
26341	10:30	150	LOT 103 9m Front bdy, 1m Left bdy R.L. 31.32	26341	-	25.0	26.5	~~Adj.~~ 1.5 DRY	1.98	~~Adj.~~ 1.93	**102.5**
				Material Description: GREY BROWN SILTY CLAY							
26342	11:30	150	LOT 108 8m Rear bdy, 2m Left bdy R.L. 36.12	26342	-	31.5	32.5	~~Adj.~~ 1.0 DRY	1.89	~~Adj.~~ 1.85	**102.0**
				Material Description: DARK BROWN CLAY							
								~~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: 22/07/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 22/07/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47784
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	19/07/2022	Tested by	JM

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 %
26365	13:30	150	LOT 101 10m Front bdy, 3m Right bdy R.L. 29.83	26365	-	18.5	19.0	~~Adj.~~ 0.5 DRY	2.03	~~Adj.~~ 1.99	**102.0**
				Material Description: DARK BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~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: 22/07/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 22/07/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47804
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	26/07/2022	Tested by	JM

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 %
26374	8:30	150	LOT 101 12m Rear bdy, 3m Left bdy R.L. 30.64	26374	-	32.0	33.0	~~Adj.~~ 1.0 DRY	1.81	~~Adj.~~ 1.85	**98.0**
				Material Description: REDDISH GREY & BROWN CLAY							
26375	9:00	150	LOT 102 13m Front bdy, 2m Left bdy R.L. 30.97	26375	-	32.0	33.5	~~Adj.~~ 1.5 DRY	1.83	~~Adj.~~ 1.86	**98.5**
				Material Description: REDDISH GREY & BROWN 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: 02/08/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 02/08/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47806
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	28/07/2022	Tested by	GM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% 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 %
26392	8:15	150	LOT 101 8m Front bdy, 5m Left bdy R.L. 31.04	26392	-	28.5	30.0	~~Adj.~~ 1.5 DRY	1.81	~~Adj.~~ 1.89	**96.0**
				Material Description: GREY BROWN CLAY							
26393	9:00	150	LOT 104 9m Rear bdy, 3m Left bdy R.L. 31.61	26393	-	34.0	32.5	~~Adj.~~ 1.5 WET	1.85	~~Adj.~~ 1.87	**99.0**
				Material Description: DARK GREY 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: 02/08/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 02/08/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47808
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	29/07/2022	Tested by	JM

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 %
26420	12:30	150	LOT 102 8m Rear bdy, 5m Left bdy R.L. 31.48	26420	-	31.5	32.5	~~Adj.~~ 1.0 DRY	1.86	~~Adj.~~ 1.85	**100.5**
				Material Description: DARK GREY BROWN CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~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: 02/08/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 02/08/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47810
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	02/08/2022	Tested by	JM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% 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 %
26434	9:00	150	LOT 103 13m Rear bdy, 2m Left bdy R.L. 31.90	26434	-	32.5	33.5	~~Adj.~~ 1.0 DRY	1.95	~~Adj.~~ 1.91	**102.0**
				Material Description: GREY BROWN CLAY							
26435	9:30	150	LOT 104 14m Rear bdy, 3m Left bdy R.L. 32.30	26435	-	20.5	20.5	~~Adj.~~ -	1.93	~~Adj.~~ 1.97	**98.0**
				Material Description: DARK BROWN 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: 04/08/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 04/08/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47814
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	03/08/2022	Tested by	GM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% 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 %
26447	9:00	150	LOT 104 11m Rear bdy, 3m Left bdy R.L. 32.84	26447	-	29.5	32.0	~~Adj.~~ 2.5 DRY	1.89	~~Adj.~~ 1.87	**101.0**
				Material Description: DARK GREY BROWN CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~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: 06/08/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 06/08/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	47832
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	05/08/2022	Tested by	GMG

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 %
26490	9:10	150	LOT 120 12m Rear bdy, 3m Right bdy R.L.	26490	-	25.0	24.0	~~Adj.~~ 1.0 WET	1.85	~~Adj.~~ 1.93	**96.0**
				Material Description: REDDISH BROWN SILTY CLAY							
26491	9:30	150	LOT 119 10m Rear bdy, 3m Right bdy R.L.	26491	-	24.5	23.0	~~Adj.~~ 1.5 WET	1.84	~~Adj.~~ 1.91	**96.5**
				Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS							
26492	10:00	150	LOT 118 7m Rear bdy, 2m Right bdy R.L.	26492	-	27.5	26.5	~~Adj.~~ 1.0 WET	1.84	~~Adj.~~ 1.88	**98.0**
				Material Description: REDDISH GREY SILTY CLAY							
26493	10:30	150	LOT 117 8m Rear bdy, 3m Right bdy R.L.	26493	-	26.0	24.5	~~Adj.~~ 1.5 WET	1.87	~~Adj.~~ 1.90	**98.5**
				Material Description: REDDISH BROWN SILTY CLAY							
								~~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: 24/10/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 24/10/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	48232
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	21/11/2022	Tested by	JM

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 %
27480	7:00	150	LOT 123 6m Rear bdy, 2m Right bdy R.L. 38.38	27480	-	19.0	22.0	~~Adj.~~ 3.0 DRY	1.83	~~Adj.~~ 1.86	**98.5**
				Material Description: BROWN SILTY CLAY							
27481	7:30	150	LOT 124 4m Rear bdy, 2m Right bdy R.L. 37.60	27481	-	17.5	20.0	~~Adj.~~ 2.5 DRY	1.91	~~Adj.~~ 1.93	**99.0**
				Material Description: BROWN SILTY 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: 28/11/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 28/11/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	48251
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	29/11/2022	Tested by	LM

Field Test Nº Sample Nº	Time of Test	Depth of Test mm	Test Location	Lab Compaction Nº	% 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 %
27564	10:40	150	LOT 105 9m Rear bdy, 2m Left bdy R.L. 32.64	27564	-	18.5	19.0	~~Adj.~~ 0.5 DRY	1.95	~~Adj.~~ 1.95	**100.0**
				Material Description: ORANGE BROWN SILTY SANDY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~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: 02/12/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 02/12/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	48262
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	30/11/2022	Tested by	LM

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 %
27577	7:10	150	LOT 105 12m Rear bdy, 4m Left bdy R.L. 33.08	27577	-	21.0	20.5	~~Adj.~~ 0.5 WET	1.89	~~Adj.~~ 1.92	**98.5**
				Material Description: LIGHT REDDISH BROWN SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~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: 02/12/2022

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 02/12/2022

Brisbane Soil Testing
20/1191 Anzac Ave
Kallangur Q 4503
Ph.(07) 3285 6536
Email. brissoil@bigpond.net.au

FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	48526
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202218
Project	THE JUNCTION – STAGE 1	Date Tested	27/02/2023	Tested by	GMG

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 %
28178	9:30	150	LOT 106 11m Front bdy, 4m Left bdy R.L. 33.95	28178	-	22.5	22.0	~~Adj.~~ 0.5 DRY	1.87	~~Adj.~~ 1.95	**96.0**
				Material Description: REDDISH BROWN & GREY SILTY CLAY							
								~~Adj.~~		~~Adj.~~	
				Material Description:							
								~~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: 28/02/2023

Checked By: *G MCGRANN*

NATA
Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager
Approved Signatory
Date: 28/02/2023