



Brisbane Soil Testing

20/1191 Anzac Ave

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Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

Job No.1418

12 October 2018

BMD Constructions Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Glen Fuller

RE: CAPESTONE ESTATE – STAGE 18B

(Allotment Fill – Geotechnical Inspection & Testing)

SCOPE

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

Substantial 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 a large area known as **Fill Zone 2** was carried out on 14 May 2014, and on an ongoing basis as earthworks progressed. These areas were proof rolled with a loaded water truck, and approval for filling given. **Fill Zone 2**, is shown on the attached Sunstate Engineering Surveys drawing titled Capestone Precinct and dated 15/10/2015.

Bulk earthworks then commenced on this area, known as **Fill Zone 2**, which included the Future Stage 18B. During this bulk earthwork phase, Brisbane Soil Testing supervised and controlled the filling and testing was carried out as per Table 8.1 of AS3798-2007 (Type 1, large scale operations). This phase of the earthworks filling in **Fill Zone 2** was completed on the 16 March 2015.

The locations of all bulk earthworks tests are shown on the attached plan No.BST-BEW-ST18B.

In August 2018, filling to Stage 18B commenced to bring the lots up to the design final level, and this phase of the earthworks was controlled as per Table 8.1 of AS3798- 2007 (Type 2, - Small scale operations).

The locations of all tests carried out during both phases of the earthworks, are shown on the attached sketches.

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 and 825 compactor.

One hundred and twenty-four field density tests were carried during the two phases, which were between 27 November 2014 and 16 March 2015 and again between 15 August 2018 and 10 October 2018.

Thirty-three field density tests carried out in **Fill Zone 2** during the bulk earthworks phase. These tests recorded Dry Density Ratios between 95.5% and 104.5% relative to the standard compaction test and field moisture contents within -2.5% and +1.5% of their respective optimum moisture contents.

Ninety-one field density tests were carried out during the Civil Phase of filling in Stage 18B. These tests recorded Dry density Ratios between 95.0% and 105.5% relative to the standard compaction test, and field moisture contents with -3.0% and +2.0% of their respective optimum moisture contents.

Attached document B37/11 + B194/0 (Report Nos.42641-42648, 42587, 42590, 42592-42601, 42605-42610, 42613-42615, 42670, 42665 & 42698.) provide full test data for the compaction control tests.

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 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



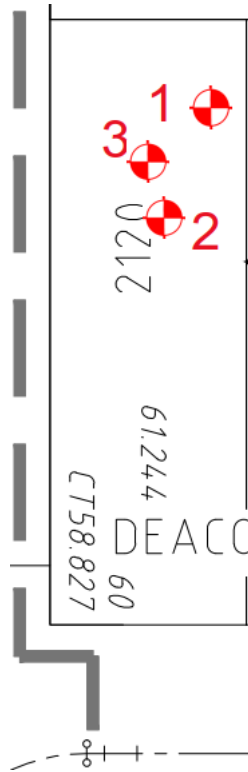
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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2120



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14221)	17.08.18	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.3.63.	102.5
2 (14504)	10.09.18	o/s 8m Rear bdy, o/s 2m Left bdy. R.L.4.81.	97.0
3 (14619)	18.09.18	o/s 20m Front bdy, o/s 5m Left bdy. R.L.5.29.	103.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2120 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.

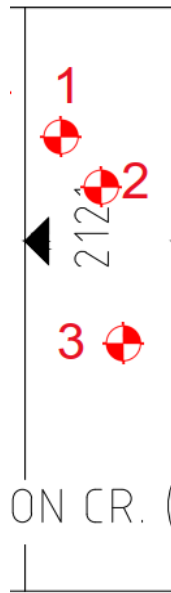


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2121**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14222)	17.08.18	o/s 5m Rear bdy, o/s 1m Left bdy. R.L.3.60.	98.5
2 (14437)	03.09.18	o/s 8m Rear bdy, o/s 4m Left bdy. R.L.4.78.	99.5
3 (14616)	18.09.18	o/s 16m Rear bdy, o/s 4m Right bdy. R.L.5.46.	102.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

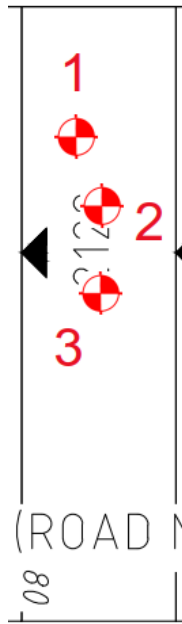
In our opinion all fill on Lot 2121 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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CAPESTONE ESTATE – STAGE 18B
LOT 2122**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14223)	17.08.18	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.3.59.	99.0
2 (14439)	03.09.18	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.4.63.	96.0
3 (14547)	12.09.18	o/s 13m Rear bdy, o/s 3m Left bdy. R.L.5.34.	102.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

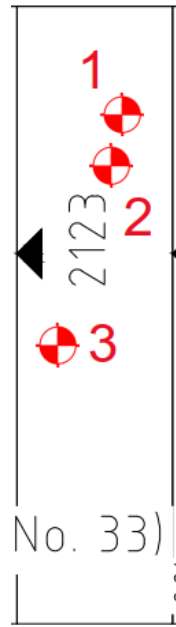
In our opinion all fill on Lot 2122 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2123**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14224)	17.08.18	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.3.62.	97.0
2 (14503)	10.09.18	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.4.90.	97.5
3 (14617)	18.09.18	o/s 20m Front bdy, o/s 2m Left bdy. R.L.5.68.	104.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

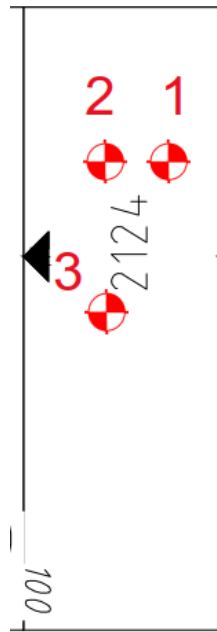
In our opinion all fill on Lot 2123 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2124**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14265)	21.08.18	o/s 7m Rear bdy, o/s 2m Right bdy. R.L.4.57.	101.0
2 (14546)	12.09.18	o/s 7m Rear bdy, o/s 4m Right bdy. R.L.5.20.	100.0
3 (14615)	18.09.18	o/s 17m Rear bdy, o/s 3m Left bdy. R.L.5.82.	105.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

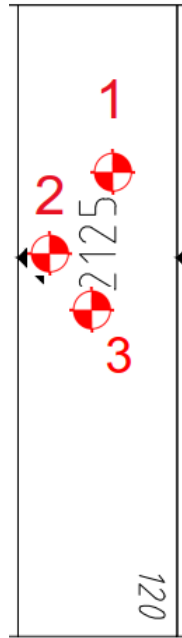
In our opinion all fill on Lot 2124 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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CAPESTONE ESTATE – STAGE 18B
LOT 2125**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14264)	21.08.18	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.4.75.	101.5
2 (14559)	13.09.18	o/s 13m Rear bdy, o/s 2m Left bdy. R.L.5.42.	98.5
3 (14781)	03.10.18	o/s 16m Rear bdy, o/s 3m Left bdy. R.L.5.91.	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

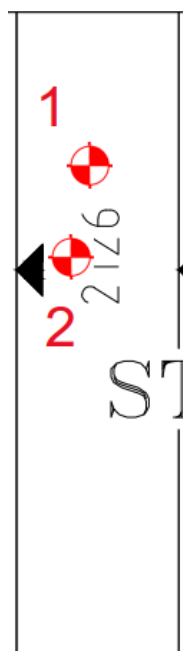
In our opinion all fill on Lot 2125 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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CAPESTONE ESTATE – STAGE 18B
LOT 2126**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14450)	04.09.18	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.4.95.	105.5
2 (14580)	14.09.18	o/s 12m Rear bdy, o/s 2m Left bdy. R.L.5.89.	97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2126 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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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2127



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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14225)	18.08.18	o/s 6m Rear bdy, o/s 2m Left bdy. R.L.4.42.	96.0
2 (14438)	03.09.18	o/s 13m Rear bdy, o/s 3m Right bdy. R.L.5.30.	102.0
3 (14618)	18.09.18	o/s 19m Front bdy, o/s 3m Left bdy. R.L.6.12.	100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2127 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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CAPESTONE ESTATE – STAGE 18B
LOT 2128**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14263)	21.08.18	o/s 8m Rear bdy, o/s 2m Right bdy. R.L.4.63.	102.0
2 (14545)	12.09.18	o/s 12m Rear bdy, o/s 3m Right bdy. R.L.5.39.	98.5
3 (14614)	18.09.18	o/s 13m Rear bdy, o/s 2m Left bdy. R.L.6.07.	103.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2128 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

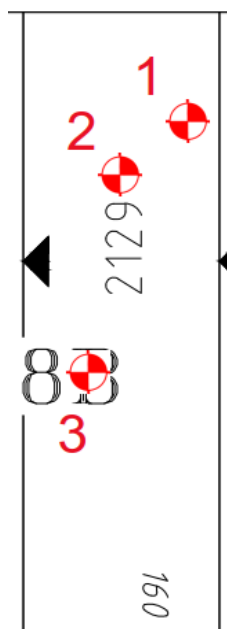


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2129



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14226)	18.08.18	o/s 5m Rear bdy, o/s 1m Right bdy. R.L.4.38.	99.0
2 (14440)	03.09.18	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.5.11.	99.0
3 (14561)	13.09.18	o/s 20m Rear bdy, o/s 3m Left bdy. R.L.5.77.	100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

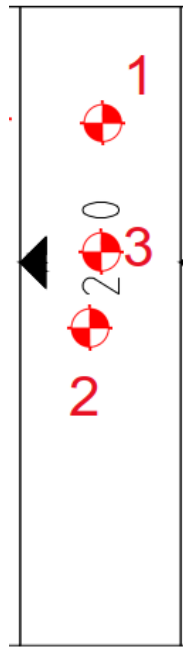
In our opinion all fill on Lot 2129 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2130**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14262)	21.08.18	o/s 6m Rear bdy, o/s 4m Left bdy. R.L.4.86.	96.0
2 (14548)	12.09.18	o/s 16m Rear bdy, o/s 3m Left bdy. R.L.5.39.	102.0
3 (14613)	18.09.18	o/s 13m Rear bdy, o/s 3m Right bdy. R.L.5.94.	100.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

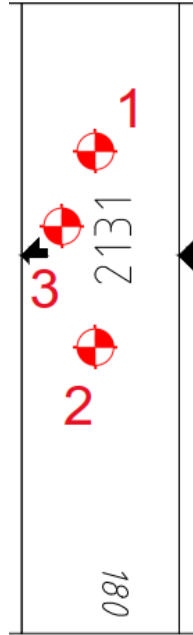
In our opinion all fill on Lot 2130 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2131**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14227)	18.08.18	o/s 8m Rear bdy, o/s 3m Left bdy. R.L.4.51.	98.5
2 (14544)	12.09.18	o/s 15m Rear bdy, o/s 2m Left bdy. R.L.5.36.	99.5
3 (14579)	14.09.18	o/s 10m Rear bdy, o/s 1m Left bdy. R.L.5.98.	99.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

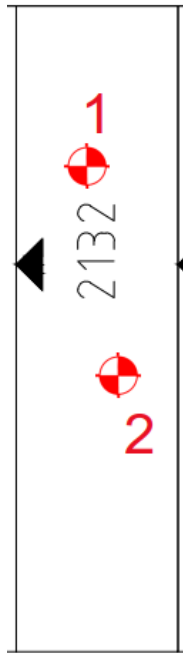
In our opinion all fill on Lot 2131 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2132**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14261)	21.08.18	o/s 9m Rear bdy, o/s 2m Left bdy. R.L.4.93.	101.5
2 (14560)	13.09.18	o/s 18m Rear bdy, o/s 2m Right bdy. R.L.5.69.	101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2132 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

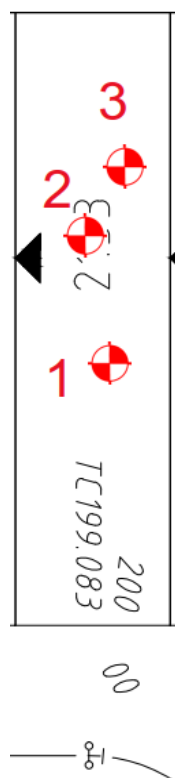


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2133



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14206)	16.08.18	o/s 17m Rear bdy, o/s 3m Right bdy. R.L.4.62.	100.0
2 (14441)	03.09.18	o/s 11m Rear bdy, o/s 3m Left bdy. R.L.5.33.	100.0
3 (14782)	03.09.18	o/s 8m Rear bdy, o/s 2m Right bdy. R.L.5.87.	99.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2133 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.

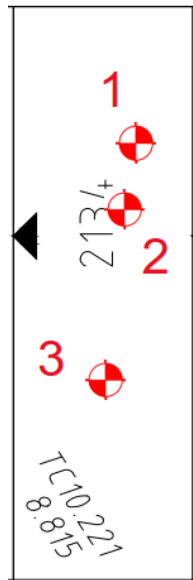


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2134**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14260)	21.08.18	o/s 7m Rear bdy, o/s 2m Right bdy. R.L.4.91.	99.5
2 (14543)	19.09.18	o/s 9m Rear bdy, o/s 3m Right bdy. R.L.5.60.	100.0
3 (14578)	14.09.18	o/s 22m Rear bdy, o/s 4m Right bdy. R.L.5.94.	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2134 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

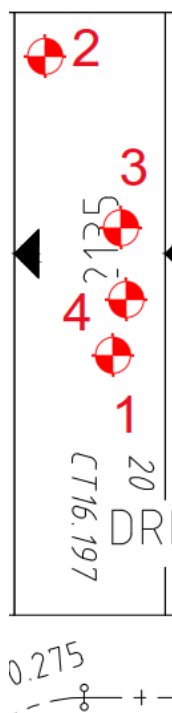


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2135



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14205)	16.08.18	o/s 19m Rear bdy, o/s 2m Right bdy. R.L.4.46.	103.0
2 (14211)	17.08.18	o/s 2m Rear bdy, o/s 1m Left bdy. R.L.3.32.	97.5
3 (14449)	04.09.18	o/s 11m Rear bdy, o/s 2m Right bdy. R.L.5.19.	100.5
4 (14562)	13.09.18	o/s 15m Front bdy, o/s 2m Right bdy. R.L.5.70.	103.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2135 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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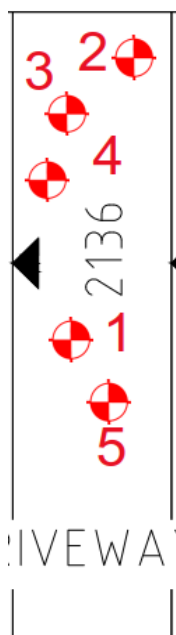


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2136



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14204)	16.08.18	o/s 15m Rear bdy, o/s 3m Left bdy. R.L.4.21.	99.0
2 (14212)	17.08.18	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.3.41.	100.0
3 (14274)	22.08.18	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.3.86.	95.0
4 (14318)	24.08.18	o/s 8m Rear bdy, o/s 1m Left bdy. R.L.4.70.	98.0
5 (14550)	12.09.18	o/s 19m Rear bdy, o/s 3m Right bdy. R.L.5.65.	100.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2136 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.

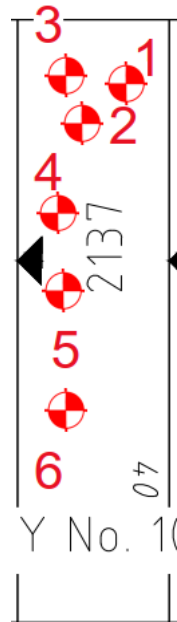


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EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2137



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14172)	15.08.18	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.2.45.	98.0
2 (14186)	15.08.18	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.3.07.	98.5
3 (14213)	17.08.18	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.3.43.	103.5
4 (14273)	22.08.18	o/s 8m Rear bdy, o/s 2m Left bdy. R.L.3.95.	98.5
5 (14317)	24.08.18	o/s 10m Rear bdy, o/s 2m Left bdy. R.L.4.61.	96.5
6 (14612)	18.09.18	o/s 12m Front bdy, o/s 1m Left bdy. R.L.5.66.	99.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2137 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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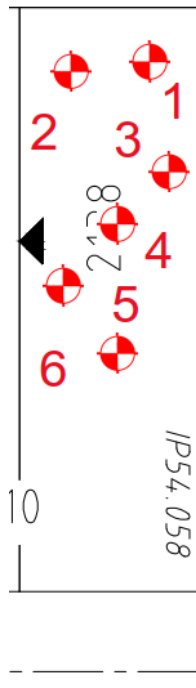


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2138



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14173)	15.08.18	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.2.19.	99.5
2 (14187)	15.08.18	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.2.81.	101.5
3 (14214)	17.08.18	o/s 6m Rear bdy, o/s 1m Right bdy. R.L.3.54.	99.5
4 (14272)	22.08.18	o/s 9m Rear bdy, o/s 3m Right bdy. R.L.3.87.	100.0
5 (14319)	24.08.18	o/s 11m Rear bdy, o/s 5m Right bdy. R.L.4.70.	98.5
6 (14549)	12.09.18	o/s 14m Rear bdy, o/s 4m Left bdy. R.L.5.54.	101.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2138 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.

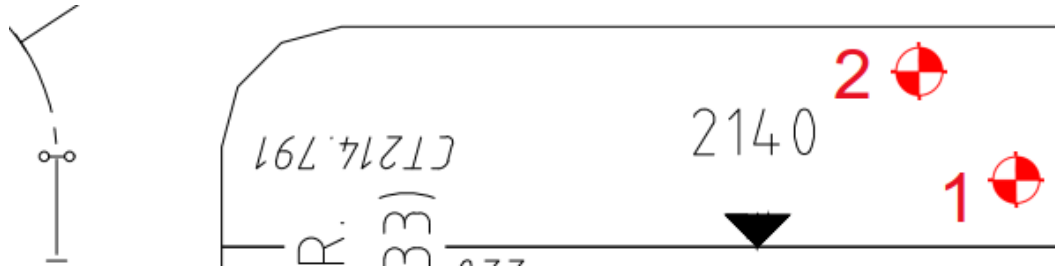


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2140**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14399)	31.08.18	o/s 1m Rear bdy, o/s 3m Right bdy. R.L.5.51.	97.0
2 (14403)	31.08.18	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.5.98.	95.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2140 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

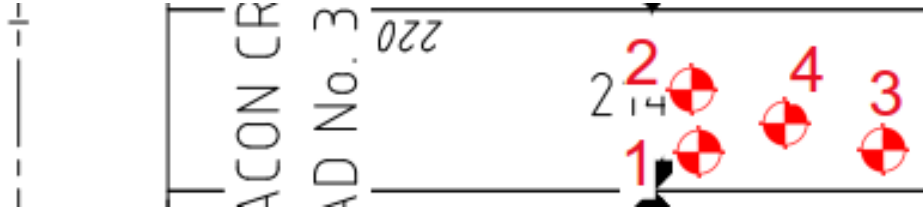


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2141



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14402)	31.08.18	o/s 9m Rear bdy, o/s 2m Right bdy. R.L.5.26.	99.5
2 (14405)	31.08.18	o/s 11m Rear bdy, o/s 4m Left bdy. R.L.5.67.	96.5
3 (14792)	02.10.18	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.5.17.	100.0
4 (14922)	10.10.18	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.5.95.	100.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2141 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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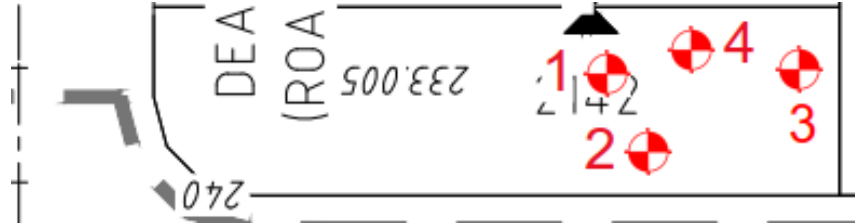


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18B

LOT 2142



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14401)	31.08.18	o/s 11m Rear bdy, o/s 3m Left bdy. R.L.4.55.	98.0
2 (14404)	31.08.18	o/s 10m Rear bdy, o/s 1m Right bdy. R.L.5.38.	98.0
3 (14791)	02.10.18	o/s 1m Rear bdy, o/s 3m Left bdy. R.L.5.39.	101.0
4 (14923)	10.10.18	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.6.10.	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

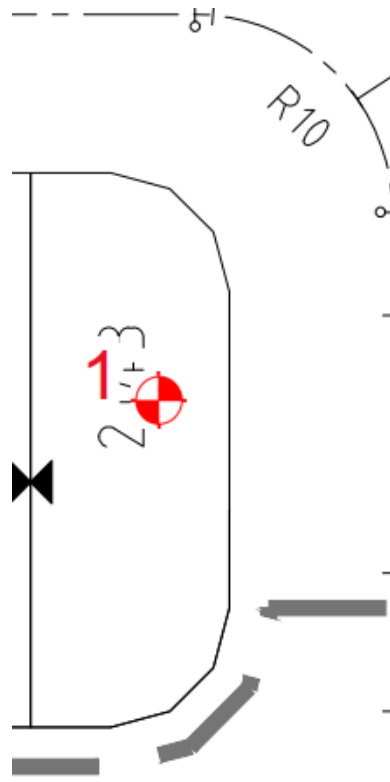
In our opinion all fill on Lot 2142 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2143**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14374)	30.08.18	o/s 8m Front bdy, o/s 2m Left bdy. R.L.5.81.	102.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2143 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.

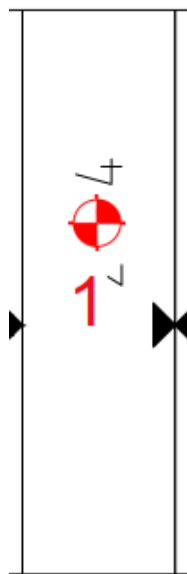

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2144**

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14375)	30.08.18	o/s 10m Front bdy, o/s 2m Right bdy. R.L.5.82.	102.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2144 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.

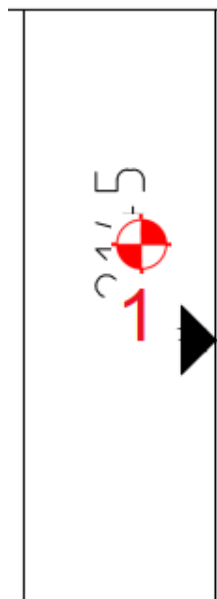

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2145**

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14380)	30.08.18	o/s 10m Front bdy, o/s 2m Left bdy. R.L.5.88.	96.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

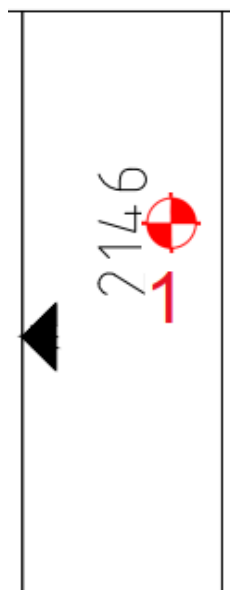
In our opinion all fill on Lot 2145 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2146**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14379)	30.08.18	o/s 9m Front bdy, o/s 2m Right bdy. R.L.5.95.	100.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2146 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.

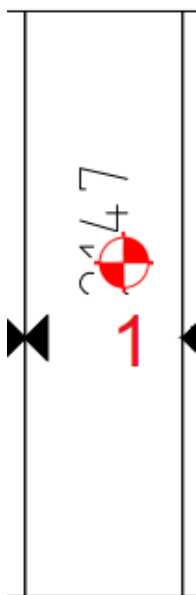

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2147**

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14378)	30.08.18	o/s 7m Front bdy, o/s 3m Left bdy. R.L.6.05.	99.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2147 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.

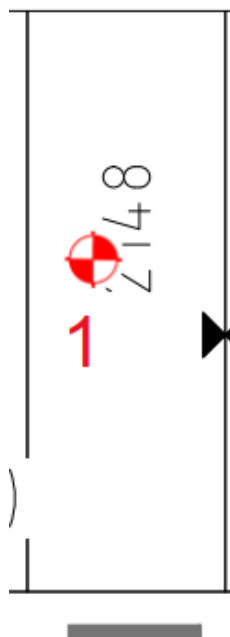

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2148**

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14377)	30.08.18	o/s 11m Front bdy, o/s 3m Right bdy. R.L.6.00.	103.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2148 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.

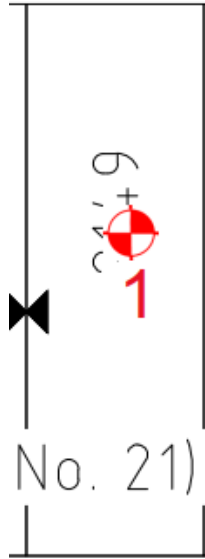

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2149**

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Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14376)	30.08.18	o/s 8m Front bdy, o/s 3m Left bdy. R.L.6.01.	96.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2149 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.

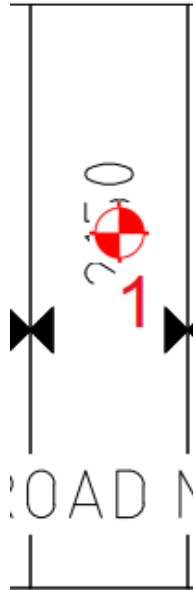

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2150**

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14406)	31.08.18	o/s 9m Front bdy, o/s 3m Left bdy. R.L.6.03.	100.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2150 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.

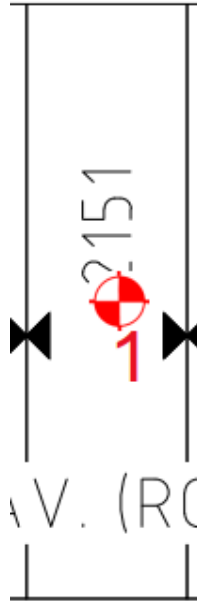

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2151**

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Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14407)	31.08.18	o/s 10m Front bdy, o/s 2m Right bdy. R.L.5.93.	103.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2151 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.

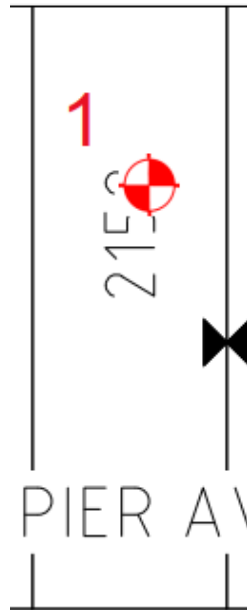

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2152**

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Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14408)	31.08.18	o/s 7m Front bdy, o/s 3m Left bdy. R.L.5.88.	103.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2152 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.

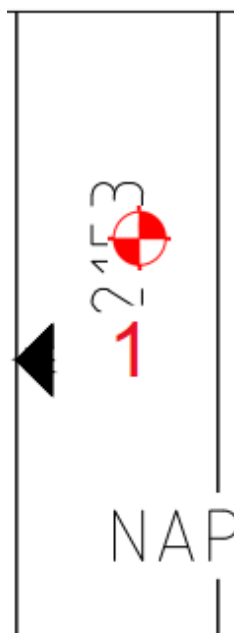

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2153**

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Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14409)	31.08.18	o/s 12m Front bdy, o/s 2m Left bdy. R.L.5.90.	97.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2153 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.

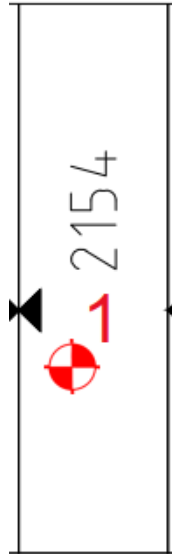

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2154**

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Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)			
1 (14783)	03.10.18	o/s 7m Rear bdy, o/s 2m Right bdy. R.L.5.73.	101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

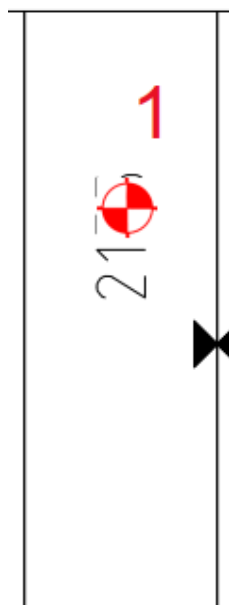
In our opinion all fill on Lot 2154 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2155**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14784)	03.10.18	o/s 9m Front bdy, o/s 3m Left bdy. R.L.5.60.	101.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2155 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.

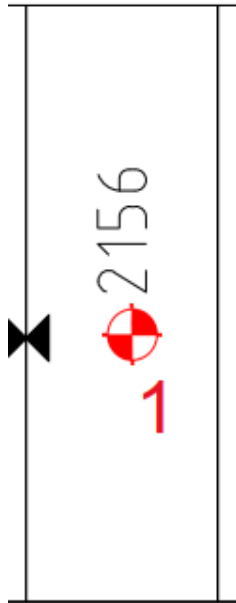

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2156**

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Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14622)	18.09.18	o/s 11m Front bdy, o/s 3m Right bdy. R.L.5.59.	98.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2156 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.

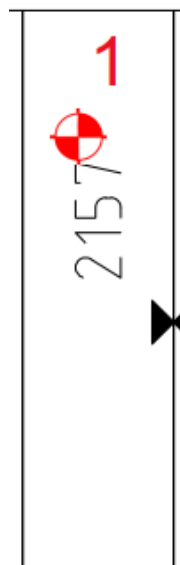

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2157**

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14785)	03.10.18	o/s 4m Front bdy, o/s 2m Right bdy. R.L.5.44.	101.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2157 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.

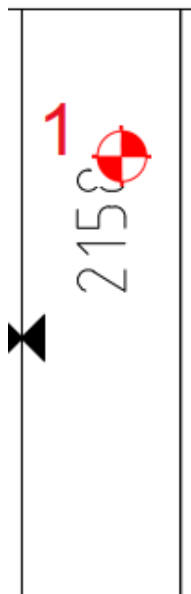

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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2158**

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Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14621)	18.09.18	o/s 6m Front bdy, o/s 2m Left bdy. R.L.5.50.	104.0
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

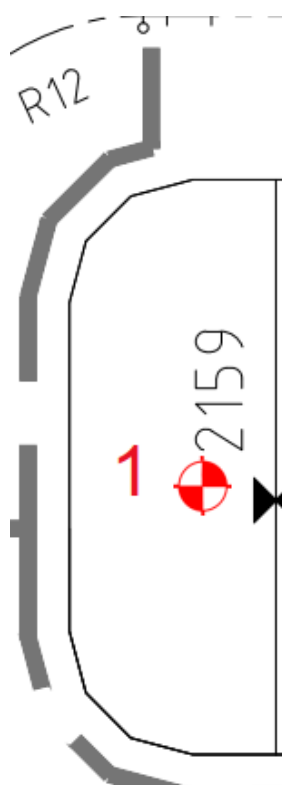
In our opinion all fill on Lot 2158 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design 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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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18B
LOT 2159**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST18B)

1 (14620)	18.09.18	o/s 15m Front bdy, o/s 3m Left bdy. R.L.5.54.	98.5
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The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 18B.

In our opinion all fill on Lot 2159 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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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42641
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	27/11/2014	Tested by	JG 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 Dry		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
88595	8.45	150	LOC ON ATT PLAN R.L.3.60	88595	-	-	12.0	Adj. 13.0	1.0 DRY	92.5	1.80	Adj. 1.87	96.0
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.													
88596	9.20	150	LOC ON ATT PLAN R.L.2.94	88596	-	-	12.0	Adj. 13.5	1.5 DRY	89.0	1.77	Adj. 1.85	95.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.													
88597	10.00	150	LOC ON ATT PLAN R.L.2.67	88597	-	-	14.5	Adj. 17.0	2.5 DRY	85.5	1.69	Adj. 1.77	95.5
Material Description: LIGHT GREY-BROWN SILTY CLAY.													
88598	10.50	150	LOC ON ATT PLAN R.L.2.49	88598	-	-	14.0	Adj. 16.0	2.0 DRY	87.5	1.75	Adj. 1.78	98.5
Material Description: LIGHT GREY-BROWN SILTY CLAY.													
88599	10.30	150	LOC ON ATT PLAN R.L.2.74	88599	13.0	13.0	13.0	Adj. 12.0	1.0 WET	108.5	1.86	Adj. 1.86	100.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.													
88600	11.15	150	LOC ON ATT PLAN R.L.3.57	88600	4.0	4.0	12.0	Adj. 13.0	1.0 DRY	92.5	1.79	Adj. 1.87	95.5
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 02/10/2018

Greg McGrann



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42642
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	02/12/2014	Tested by	JAG

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 Dry		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
88609	13.00	150	LOC ON ATT PLAN R.L.3.94	88609	-	-	16.0	Adj. 17.0	1.0 DRY	94.0	1.76	Adj. 1.76	100.0
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
88610	13.30	150	LOC ON ATT PLAN R.L.3.48	88610	-	-	16.0	Adj. 15.0	1.0 WET	106.5	1.76	Adj. 1.77	99.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
88611	14.00	150	LOC ON ATT PLAN R.L.3.17	88611	-	-	17.0	Adj. 16.0	1.0 WET	106.5	1.72	Adj. 1.79	96.0
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 98% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 02/10/2018

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42643
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	03/12/2014	Tested by	JG

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 Dry		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
88619	7.00	150	LOC ON ATT PLAN R.L.3.97	88619	-	-	13.5	Adj. 16.0	2.5 DRY	84.5	1.77	Adj. 1.80	98.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
88620	7.30	150	LOC ON ATT PLAN R.L.3.60	88620	-	-	12.0	Adj. 14.5	2.5 DRY	83.0	1.75	Adj. 1.80	97.0
Material Description: LIGHT BROWN SILTY CLAY													
88621	10.00	150	LOC ON ATT PLAN R.L.3.54	88621	-	-	13.0	Adj. 14.5	1.5 DRY	89.5	1.80	Adj. 1.82	99.0
Material Description: YELLOW-BROWN SILTY CLAY & ROCK FRAGMENTS													
88622	10.30	150	LOC ON ATT PLAN R.L.3.20	88622	-	-	15.0	Adj. 14.5	0.5 WET	103.5	1.76	Adj. 1.79	98.5
Material Description: RED-BROWN SILTY CLAY & ROCK FRAGMENTS													
88623	11.30	150	LOC ON ATT PLAN R.L.3.80	88623	-	-	15.5	Adj. 15.5	-	100.0	2.01	Adj. 1.82	95.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No. 2415

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42644
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	04/12/2014	Tested by	JG

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 Dry		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
88653	9.30	150	LOC ON ATT PLAN R.L.4.35	88653	-	-	14.5	Adj. 16.0	1.5 DRY	90.5	1.70	Adj. 1.78	95.5
Material Description: LIGHT BROWN SILTY SANDY CLAY.													
88654	10.15	150	LOC ON ATT PLAN R.L.4.09	88654	-	-	13.5	Adj. 14.0	0.5 DRY	96.5	1.75	Adj. 1.84	95.0
Material Description: LIGHT BROWN SILTY SANDY CLAY.													
88655	12.30	150	LOC ON ATT PLAN R.L.4.27	88655	-	-	14.5	Adj. 16.0	1.5 DRY	90.5	1.73	Adj. 1.79	96.5
Material Description: LIGHT GREY & WHITE SILTY SANDY CLAY.													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42645
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	05/12/2014	Tested by	JG

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 Dry		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
88670	11.00	150	LOC ON ATT PLAN R.L.4.46	88670	-	-	14.0	Adj. 14.0	-	100.0	2.04	Adj. 1.83	98.5
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS													
88671	11.45	150	LOC ON ATT PLAN R.L.4.20	88671	-	-	14.5	Adj. 15.5	1.0 DRY	93.5	1.74	Adj. 1.80	96.5
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No.2415

Greg McGrann/Manager

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Date: 02/10/2018

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42646
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	08/12/2014	Tested by	JM JG

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 Dry		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
88682	10.00	150	LOC ON ATT PLAN R.L.4.45	88682	14.0	14.0	12.5	Adj. 13.5	1.0 DRY	92.5	1.86	Adj. 1.86	100.0
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
88683	10.30	150	LOC ON ATT PLAN R.L.4.71	88683	-	-	13.0	Adj. 13.5	0.5 DRY	96.5	1.87	Adj. 1.86	100.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY													
88684	10.00	150	LOC ON ATT PLAN R.L.4.63	88684	-	-	13.0	Adj. 14.5	1.5 DRY	89.5	1.84	Adj. 1.83	100.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY													
88685	10.30	150	LOC ON ATT PLAN R.L.4.52	88685	-	-	15.0	Adj. 14.0	1.5 WET	110.5	1.81	Adj. 1.85	98.0
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY													
88686	13.00	150	LOC ON ATT PLAN R.L.4.79	88686	-	-	14.5	Adj. 16.5	2.0 DRY	88.0	1.84	Adj. 1.79	103.0
Material Description: LIGHT BROWN SILTY SANDY CLAY													
88687	13.00	150	LOC ON ATT PLAN R.L.4.82	88687	-	-	14.5	Adj. 16.0	1.5 DRY	90.5	1.77	Adj. 1.78	99.5
Material Description: LIGHT GREY-BROWN SILTY CLAY													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

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Greg McGrann/Manager

Approved Signatory

Date: 02/10/2018

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42647
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	09/12/2014	Tested by	JG

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 Dry		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
88706	9.30	150	LOC ON ATT PLAN R.L.5.03	88706	-	-	14.0	Adj. 14.5	0.5 DRY	96.5	1.87	Adj. 1.79	104.5
Material Description: LIGHT YELLOW-BROWN SILTY SANDY CLAY.													
88707	10.00	150	LOC ON ATT PLAN R.L.5.13	88707	-	-	14.5	Adj. 14.0	0.5 WET	103.5	1.81	Adj. 1.81	100.0
Material Description: LIGHT YELLOW-BROWN SILTY SANDY CLAY.													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													
								Adj.				Adj.	
Material Description:													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Prepared By: G MCGRANN

Date: 02/10/2018

Checked By: R MCGRANN

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Accredited for compliance with ISO/IEC 17025 – Testing.

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Date: 02/10/2018

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42648
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	16/03/2015	Tested by	JAG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	Dry Density Ratio %
89628	8.00	150	LOC ON ATT PLAN R.L.4.90	89628	-	-	14.0	Adj. 16.0	2.0 DRY	87.5	1.70	Adj. 1.73	98.5
Material Description: LIGHT BROWN SILTY SANDY CLAY													
89629	8.30	150	LOC ON ATT PLAN R.L.5.16	89629	-	-	13.0	Adj. 15.0	2.0 DRY	86.5	1.76	Adj. 1.81	97.0
Material Description: LIGHT REDDISH-BROWN & GREY SILTY CLAY													
89630	10.00	150	LOC ON ATT PLAN R.L.5.24	89630	-	-	13.0	Adj. 15.0	2.0 DRY	86.5	1.76	Adj. 1.81	97.0
Material Description: DARK BROWN SILTY SANDY CLAY													
89631	10.30	150	LOC ON ATT PLAN R.L.5.29	89631	-	-	13.5	Adj. 16.0	2.5 DRY	84.5	1.73	Adj. 1.76	98.5
Material Description: DARK BROWN SILTY SANDY CLAY													
89632	11.00	150	LOC ON ATT PLAN R.L.5.33	89632	-	-	12.0	Adj. 14.0	2.0 DRY	85.5	1.75	Adj. 1.83	95.5
Material Description: LIGHT BROWN SILTY SANDY CLAY													
89633	11.45	150	LOC ON ATT PLAN R.L.5.08	89633	-	-	14.0	Adj. 16.0	2.0 DRY	87.5	1.77	Adj. 1.77	100.0
Material Description: DARK BROWN SILTY CLAY													

Remarks:

Required Dry Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No. 2415

Greg McGrann/Manager

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Date: 02/10/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42587
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	15/08/2018	Tested by	AC LM 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14172	8.20	150	LOT 2137 3m Rear bdy, 3m Right bdy R.L.2.45	14172	-	-	14.5	Adj. 15.5	1.0 DRY	2.07	Adj. 2.11	98.0
Material Description: BROWN SILTY SANDY CLAY.												
14173	8.20	150	LOT 2138 2m Rear bdy, 2m Right bdy R.L.2.19	14173	-	-	17.0	Adj. 15.0	2.0 WET	2.13	Adj. 2.14	99.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY.												
14186	14.00	150	LOT 2137 4m Rear bdy, 3m Left bdy R.L.3.07	14186	-	-	12.5	Adj. 14.0	1.5 DRY	2.02	Adj. 2.05	98.5
Material Description: YELLOW-BROWN & GREY SILTY CLAY.												
14187	14.00	150	LOT 2138 3m Rear bdy, 2m Left bdy R.L.2.81	14187	-	-	14.5	Adj. 13.5	1.0 WET	2.11	Adj. 2.08	101.5
Material Description: LIGHT GREY-BROWN & RED SILTY SANDY CLAY.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42590
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	16/08/2018	Tested by	GMG 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14204	10.00	150	LOT 2136 15m Rear bdy, 3m Left bdy R.L.4.21	14204	-	-	14.0	Adj. 14.0	-	2.11	Adj. 2.13	99.0
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY												
14205	10.20	150	LOT 2135 19m Rear bdy, 2m Right bdy R.L.4.46	14205	-	-	15.5	Adj. 14.5	1.0 WET	2.17	Adj. 2.11	103.0
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY												
14206	10.20	150	LOT 2133 17m Rear bdy, 3m Right bdy R.L.4.62	14206	-	-	14.5	Adj. 13.5	1.0 WET	2.14	Adj. 2.14	100.0
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



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HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42592
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	17/08/2018	Tested by	AC 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14211	10.00	150	LOT 2135 2m Rear bdy, 1m Left bdy R.L.3.32	14211	-	-	13.5	Adj. 14.5	1.0 DRY	2.02	Adj. 2.07	97.5
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY												
14212	10.15	150	LOT 2136 2m Rear bdy, 2m Right bdy R.L.3.41	14212	-	-	15.0	Adj. 14.0	1.0 WET	2.12	Adj. 2.12	100.0
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY												
14213	10.15	150	LOT 2137 3m Rear bdy, 2m Left bdy R.L.3.43	14213	-	-	16.5	Adj. 15.0	1.5 WET	2.15	Adj. 2.08	103.5
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY												
14214	10.30	150	LOT 2138 6m Rear bdy, 1m Right bdy R.L.3.54	14214	-	-	14.5	Adj. 16.0	1.5 DRY	2.08	Adj. 2.09	99.5
Material Description: REDDISH-GREY SILTY CLAY												
14221	13.00	150	LOT 2120 4m Rear bdy, 2m Right bdy R.L.3.63	14221	-	-	14.0	Adj. 14.0	-	2.16	Adj. 2.11	102.5
Material Description: LIGHT BROWN SILTY SANDY CLAY												
14222	13.00	150	LOT 2121 5m Rear bdy, 1m Left bdy R.L.3.60	14222	-	-	14.5	Adj. 14.0	0.5 WET	2.09	Adj. 2.12	98.5
Material Description: LIGHT BROWN SILTY SANDY CLAY												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 26/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42593
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	17/08/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14223	13.15	150	LOT 2122 4m Rear bdy, 2m Left bdy R.L.3.59	14223	-	-	13.0	Adj. 13.0	-	2.12	Adj. 2.14	99.0
Material Description: LIGHT BROWN SILTY SANDY CLAY												
14224	13.30	150	LOT 2123 3m Rear bdy, 2m Right bdy R.L.3.62	14224	-	-	13.5	Adj. 13.0	0.5 WET	2.08	Adj. 2.14	97.0
Material Description: LIGHT BROWN 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 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

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Date: 26/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42594
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	18/08/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14225	7.45	150	LOT 2127 6m Rear bdy, 2m Left bdy R.L.4.42	14225	-	-	16.0	Adj. 14.0	2.0 WET	1.99	Adj. 2.07	96.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY												
14226	8.20	150	LOT 2129 5m Rear bdy, 1m Right bdy R.L.4.38	14226	-	-	13.5	Adj. 15.0	1.5 DRY	2.06	Adj. 2.08	99.0
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY												
14227	8.45	150	LOT 2131 8m Rear bdy, 3m Left bdy R.L.4.51	14227	-	-	14.5	Adj. 15.5	1.0 DRY	2.01	Adj. 2.04	98.5
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



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HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42595
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	21/08/2018	Tested by	LM 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14260	8.45	150	LOT 2134 7m Rear bdy, 2m Right bdy R.L.4.91	14260	-	-	11.5	Adj. 12.0	0.5 DRY	2.15	Adj. 2.16	99.5
				Material Description: BROWN SANDY CLAY & ROCK FRAGMENTS								
14261	10.00	150	LOT 2132 9m Rear bdy, 2m Left bdy R.L.4.93	14261	-	-	9.0	Adj. 10.5	1.5 DRY	2.22	Adj. 2.19	101.5
				Material Description: LIGHT BROWN SANDY GRAVELLY CLAY								
14262	10.00	150	LOT 2130 6m Rear bdy, 4m Left bdy R.L.4.86	14262	-	-	10.0	Adj. 11.0	1.0 DRY	2.08	Adj. 2.17	96.0
				Material Description: LIGHT BROWN SANDY GRAVELLY CLAY								
14263	10.20	150	LOT 2128 8m Rear bdy, 2m Right bdy R.L.4.63	14263	-	-	12.5	Adj. 12.5	-	2.17	Adj. 2.13	102.0
				Material Description: YELLOW-BROWN SANDY CLAY & ROCK FRAGMENTS								
14264	10.55	150	LOT 2125 6m Rear bdy, 3m Right bdy R.L.4.75	14264	-	-	13.5	Adj. 14.0	0.5 DRY	2.08	Adj. 2.05	101.5
				Material Description: LIGHT GREY-BROWN SANDY CLAY & ROCK FRAGMENTS								
14265	10.45	150	LOT 2124 7m Rear bdy, 2m Right bdy R.L.4.57	14265	-	-	13.5	Adj. 12.5	1.0 WET	2.19	Adj. 2.17	101.0
				Material Description: BROWN SANDY CLAY & FINE ROCK FRAGMENTS								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

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Date: 26/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42596
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	22/08/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14272	10.00	150	LOT 2138 9m Rear bdy, 3m Right bdy R.L.4.17	14272	-	-	11.0	Adj. 12.0	1.0 DRY	2.19	Adj. 2.19	100.0
Material Description: ORANGE-BROWN SILTY SANDY CLAY.												
14273	10.25	150	LOT 2137 8m Rear bdy, 2m Left bdy R.L.4.30	14273	-	-	14.5	Adj. 13.5	1.0 WET	2.10	Adj. 2.13	98.5
Material Description: ORANGE-BROWN SILTY SANDY CLAY.												
14274	10.55	150	LOT 2136 7m Rear bdy, 2m Left bdy R.L.4.20	14274	-	-	16.0	Adj. 16.5	0.5 DRY	1.97	Adj. 2.07	95.0
Material Description: GREY-BROWN SILTY CLAY.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
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Date: 26/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42597
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	24/08/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14317	7.45	150	LOT 2137 10m Rear bdy, 2m Left bdy R.L.4.91	14317	-	-	14.0	Adj. 13.5	0.5 WET	2.02	Adj. 2.09	96.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
14318	8.20	150	LOT 2136 8m Rear bdy, 1m Left bdy R.L.4.90	14318	-	-	14.5	Adj. 15.0	0.5 DRY	2.04	Adj. 2.06	98.0
Material Description: LIGHT BROWN SILTY SANDY CLAY.												
14319	8.50	150	LOT 2138 11m Rear bdy, 5m Right bdy R.L.4.96	14319	-	-	13.5	Adj. 13.0	0.5 WET	2.08	Adj. 2.11	98.5
Material Description: LIGHT GREY-BROWN SANDY CLAY.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No. 2415

Greg McGrann/Manager
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Date: 26/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42598
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	30/08/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14374	8.30	150	LOT 2143 8m Front bdy, 2m Left bdy R.L.5.81	14374	-	-	16.0	Adj. 14.0	2.0 WET	2.15	Adj. 2.11	102.0
Material Description: REDDISH-BROWN SANDY CLAY												
14375	9.00	150	LOT 2144 10m Front bdy, 2m Right bdy R.L.5.82	14375	-	-	17.0	Adj. 15.5	1.5 WET	2.14	Adj. 2.09	102.5
Material Description: BROWN SILTY SANDY CLAY												
14376	10.15	150	LOT 2149 8m Front bdy, 3m Left bdy R.L.6.01	14376	-	-	16.0	Adj. 16.0	-	2.02	Adj. 2.09	96.5
Material Description: BROWN SILTY SANDY CLAY												
14377	10.45	150	LOT 2148 11m Front bdy, 3m Right bdy R.L.6.00	14377	-	-	14.0	Adj. 14.0	-	2.16	Adj. 2.10	103.0
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY												
14378	13.10	150	LOT 2147 7m Front bdy, 3m Left bdy R.L.6.05	14378	-	-	15.5	Adj. 16.5	1.0 DRY	2.03	Adj. 2.05	99.0
Material Description: YELLOW-BROWN & GREY SILTY SANDY CLAY												
14379	13.30	150	LOT 2146 9m Front bdy, 2m Right bdy R.L.5.95	14379	-	-	15.5	Adj. 14.0	0.5 WET	2.10	Adj. 2.09	100.5
Material Description: LIGHT BROWN SILTY SANDY CLAY												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42599
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	30/08/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14380	14.15	150	LOT 2145 10m Front bdy, 2m Left bdy R.L.5.88	14380	-	-	14.5	Adj. 14.5	-	2.06	Adj. 2.13	96.5
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

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Date: 26/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42600
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	31/08/2018	Tested by	JM 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14399	7.30	150	LOT 2140 1m Rear bdy, 3m Right bdy R.L.5.51	14399	-	-	13.5	Adj. 15.0	1.5 DRY	2.06	Adj. 2.12	97.0
				Material Description: GREY-BROWN SILTY SANDY CLAY.								
14401	8.15	150	LOT 2142 11m Rear bdy, 3m Left bdy R.L.4.55	14401	-	-	18.5	Adj. 17.5	1.0 WET	2.04	Adj. 2.08	98.0
				Material Description: LIGHT GREY-BROWN SILTY CLAY.								
14402	8.20	150	LOT 2141 9m Rear bdy, 2m Right bdy R.L.5.26	14402	-	-	19.5	Adj. 18.0	1.5 WET	2.06	Adj. 2.07	99.5
				Material Description: LIGHT GREY-BROWN SILTY CLAY.								
14403	10.00	150	LOT 2140 4m Rear bdy, 2m Left bdy R.L.5.98	14403	-	-	18.5	Adj. 18.5	-	2.02	Adj. 2.11	95.5
				Material Description: REDDISH-BROWN & GREY SILTY CLAY.								
14404	10.25	150	LOT 2142 10m Rear bdy, 1m Right bdy R.L.5.38	14404	-	-	20.0	Adj. 18.0	2.0 WET	2.04	Adj. 2.08	98.0
				Material Description: REDDISH-BROWN & GREY SILTY CLAY.								
14405	10.25	150	LOT 2141 11m Rear bdy, 4m Left bdy R.L.5.67	14405	-	-	20.0	Adj. 19.0	1.0 WET	1.99	Adj. 2.06	96.5
				Material Description: REDDISH-BROWN & GREY SILTY CLAY.								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No. 2415

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Approved Signatory
Date: 26/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42601
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	31/08/2018	Tested by	JM 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14406	11.00	150	LOT 2150 9m Front bdy, 3m Left bdy R.L.6.03	14406	-	-	15.5	Adj. 17.0	1.5 DRY	2.07	Adj. 2.06	100.5
Material Description: LIGHT YELLOW-BROWN SILTY CLAY.												
14407	13.45	150	LOT 2151 10m Front bdy, 2m Right bdy R.L.5.93	14407	-	-	16.0	Adj. 15.0	1.0 WET	2.18	Adj. 2.12	103.0
Material Description: LIGHT YELLOW-BROWN SILTY CLAY.												
14408	13.45	150	LOT 2152 7m Front bdy, 3m Left bdy R.L.5.88	14408	-	-	16.5	Adj. 14.5	2.0 WET	2.18	Adj. 2.12	103.0
Material Description: LIGHT YELLOW-BROWN SILTY CLAY.												
14409	14.05	150	LOT 2153 12m Front bdy, 2m Left bdy R.L.5.90	14409	-	-	14.5	Adj. 14.0	0.5 WET	2.05	Adj. 2.10	97.5
Material Description: LIGHT YELLOW-BROWN SILTY CLAY.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42605
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	03/09/2018	Tested by	LM 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14437	13.00	150	LOT 2121 8m Rear bdy, 4m Left bdy R.L.4.78	14437	-	-	15.5	Adj. 16.5	1.0 DRY	1.97	Adj. 1.98	99.5
Material Description: LIGHT GREY-BROWN SILTY CLAY												
14438	13.00	140	LOT 2127 13m Rear bdy, 3m Right bdy R.L.5.30	14438	-	-	18.0	Adj. 17.5	0.5 WET	2.09	Adj. 2.05	102.0
Material Description: LIGHT GREY-BROWN SILTY CLAY												
14439	13.25	150	LOT 2122 7m Rear bdy, 3m Left bdy R.L.4.63	14439	-	-	17.0	Adj. 17.5	0.5 DRY	1.98	Adj. 2.06	96.0
Material Description: LIGHT GREY-BROWN SILTY CLAY												
14440	14.00	150	LOT 2129 6m Rear bdy, 3m Right bdy R.L.5.11	14440	-	-	16.0	Adj. 16.0	-	2.13	Adj. 2.03	99.0
Material Description: LIGHT GREY-BROWN SILTY CLAY												
14441	14.30	150	LOT 2133 11m Rear bdy, 3m Left bdy R.L.5.33	14441	-	-	16.5	Adj. 17.5	1.0 DRY	2.01	Adj. 2.01	100.0
Material Description: LIGHT BROWN SILTY CLAY												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

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Date: 27/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42606
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	04/09/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14449	13.00	150	LOT 2135 11m Rear bdy, 2m Right bdy R.L.5.19	14449	-	-	16.0	Adj. 18.5	2.5 DRY	1.99	Adj. 1.98	100.5
Material Description: LIGHT GREY-BROWN SILTY CLAY												
14450	13.30	150	LOT 2126 9m Rear bdy, 3m Left bdy R.L.4.95	14450	-	-	13.5	Adj. 12.5	1.0 WET	2.19	Adj. 2.07	105.5
Material Description: LIGHT BROWN SANDY CLAY & FINE 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 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42607
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	10/09/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14503	8.00	150	LOT 2123 6m Rear bdy, 3m Right bdy R.L.4.90	14503	-	-	16.0	Adj. 14.0	2.0 WET	2.08	Adj. 2.13	97.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY												
14504	8.30	150	LOT 2120 8m Rear bdy, 2m Left bdy R.L.4.81	14504	-	-	14.5	Adj. 15.0	0.5 DRY	2.03	Adj. 2.09	97.0
Material Description: YELLOW-BROWN 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 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No.2415

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Date: 27/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42608
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	12/09/2018	Tested by	AC RW 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14543	8.50	130	LOT 2134 9m Rear bdy, 3m Right bdy R.L.5.60	14543	-	-	15.5	Adj. 14.5	1.0 WET	2.14	Adj. 2.14	100.0
				Material Description: LIGHT YELLOW-BROWN & GREY SILTY SANDY CLAY								
14544	8.55	150	LOT 2131 15m Rear bdy, 2m Left bdy R.L.5.36	14544	-	-	21.0	Adj. 20.5	0.5 WET	2.05	Adj. 2.06	99.5
				Material Description: REDDISH-BROWN & GREY SILTY CLAY								
14545	9.00	150	LOT 2128 12m Rear bdy, 3m Right bdy R.L.5.39	14545	-	-	15.5	Adj. 15.0	0.5 WET	2.12	Adj. 2.15	98.5
				Material Description: GREY-BROWN SILTY SANDY CLAY								
14546	9.20	150	LOT 2124 7m Rear bdy, 4m Right bdy R.L.5.20	14546	-	-	16.0	Adj. 15.5	0.5 WET	2.15	Adj. 2.15	100.0
				Material Description: LIGHT YELLOW-BROWN & GREY SANDY CLAY								
14547	9.20	150	LOT 2122 13m Rear bdy, 3m Left bdy R.L.5.34	14547	-	-	16.0	Adj. 16.5	0.5 DRY	2.13	Adj. 2.08	102.5
				Material Description: LIGHT BROWN SILTY CLAY								
14548	13.00	150	LOT 2130 16m Rear bdy, 3m Left bdy R.L.5.39	14548	-	-	20.5	Adj. 19.5	1.0 WET	2.14	Adj. 2.10	102.0
				Material Description: YELLOW-BROWN & GREY SANDY CLAY								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 27/09/2018



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HILF DENSITY RATIO REPORT

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ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42609
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	12/09/2018	Tested by	LM RW

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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14549	13.00	150	LOT 2138 14m Rear bdy, 4m Left bdy R.L.5.54	14549	-	-	16.0	Adj. 15.5	0.5 WET	2.17	Adj. 2.14	101.5
Material Description: YELLOW-BROWN & GREY SANDY CLAY												
14550	13.00	150	LOT 2136 19m Rear bdy, 3m Right bdy R.L.5.65	14550	-	-	14.5	Adj. 16.0	1.5 DRY	2.13	Adj. 2.12	100.5
Material Description: YELLOW-BROWN & GREY 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 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 27/09/2018

Greg McGrann



Brisbane Soil Testing

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Email: brissoil@bigpond.net.au

HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42610
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	13/09/2018	Tested by	LM 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14559	7.15	150	LOT 2125 13m Rear bdy, 2m Left bdy R.L.5.42	14559	-	-	15.5	Adj. 14.5	1.0 WET	2.14	Adj. 2.17	98.5
Material Description: LIGHT REDDISH-BROWN & GREY SILTY SANDY CLAY												
14560	7.15	150	LOT 2132 18m Rear bdy, 2m Right bdy R.L.5.69	14560	-	-	16.0	Adj. 15.0	1.0 WET	2.16	Adj. 2.14	101.0
Material Description: LIGHT REDDISH-BROWN & GREY SILTY SANDY CLAY												
14561	10.30	150	LOT 2129 20m Rear bdy, 3m Left bdy R.L.5.77	14561	-	-	15.0	Adj. 16.0	1.0 DRY	2.12	Adj. 2.12	100.0
Material Description: LIGHT REDDISH-BROWN & GREY SILTY SANDY CLAY												
14562	10.30	150	LOT 2135 15m Front bdy, 2m Right bdy R.L.5.70	14562	-	-	17.5	Adj. 17.5	-	2.18	Adj. 2.12	103.0
Material Description: LIGHT REDDISH-BROWN & GREY SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 27/09/2018

Greg McGrann



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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42613
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	14/09/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14578	10.30	150	LOT 2134 22m Rear bdy, 4m Right bdy R.L.5.94	14578	-	-	13.5	Adj. 14.0	0.5 DRY	2.08	Adj. 2.15	96.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY												
14579	11.00	150	LOT 2131 10m Rear bdy, 1m Left bdy R.L.5.98	14579	-	-	14.0	Adj. 15.5	1.5 DRY	2.06	Adj. 2.08	99.0
Material Description: YELLOW-BROWN SILTY SANDY CLAY												
14580	11.30	150	LOT 2126 12m Rear bdy, 2m Left bdy R.L.5.89	14580	-	-	16.0	Adj. 15.0	1.0 WET	2.04	Adj. 2.09	97.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 27/09/2018

Greg McGrann



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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42614
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	18/09/2018	Tested by	LM RW GMG 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14612	10.30	150	LOT 2137 12m Front bdy, 1m Left bdy R.L.5.66	14612	-	-	17.0	Adj. 16.5	0.5 WET	2.11	Adj. 2.13	99.0
Material Description: ORANGE BROWN & GREY SILTY CLAY												
14613	10.30	150	LOT 2130 13m Rear bdy, 3m Right bdy R.L.5.94	14613	-	-	11.5	Adj. 12.5	1.0 DRY	2.09	Adj. 2.08	100.5
Material Description: GREY-BROWN SILTY CLAY												
14614	10.40	150	LOT 2128 13m Rear bdy, 2m Left bdy R.L.6.07	14614	-	-	14.5	Adj. 15.0	0.5 DRY	2.20	Adj. 2.13	103.5
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
14615	10.45	150	LOT 2124 17m Rear bdy, 3m Left bdy R.L.5.82	14615	-	-	15.5	Adj. 16.5	1.0 DRY	2.18	Adj. 2.08	105.0
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
14616	10.50	150	LOT 2121 16m Rear bdy, 4m Right bdy R.L.5.46	14616	-	-	14.5	Adj. 17.0	2.5 DRY	2.10	Adj. 2.05	102.5
Material Description: LIGHT YELLOW-BROWN SILTY SANDY CLAY												
14617	10.50	140	LOT 2123 20m Front bdy, 2m Left bdy R.L.5.68	14617	-	-	16.0	Adj. 18.5	2.5 DRY	2.10	Adj. 2.02	104.0
Material Description: LIGHT REDDISH-BROWN & GREY SILTY CLAY												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 27/09/2018

Greg McGrann



Brisbane Soil Testing

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Email: brissoil@bigpond.net.au

HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42615
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	18/09/2018	Tested by	AC JM 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14618	11.05	150	LOT 2127 19m Front bdy, 3m Left bdy R.L.6.12	14618	-	-	15.0	Adj. 15.5	0.5 DRY	2.09	Adj. 2.09	100.0
Material Description: YELLOW-BROWN SILTY SNADY CLAY												
14619	11.10	150	LOT 2120 20m Front bdy, 5m Left bdy R.L.5.29	14619	-	-	13.5	Adj. 16.5	3.0 DRY	2.10	Adj. 2.03	103.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY												
14620	11.30	150	LOT 2159 15m Front bdy, 3m Left bdy R.L.5.54	14620	-	-	14.5	Adj. 17.5	3.0 DRY	1.99	Adj. 2.02	98.5
Material Description: LIGHT BROWN SILTY CLAY												
14621	11.25	150	LOT 2158 6m Front bdy, 2m Left bdy R.L.5.50	14621	-	-	12.0	Adj. 14.5	2.5 DRY	2.12	Adj. 2.04	104.0
Material Description: LIGHT BROWN SILTY CLAY												
14622	11.30	150	LOT 2156 11m Front bdy, 3m Right bdy R.L.5.59	14622	-	-	12.5	Adj. 14.5	2.0 DRY	2.04	Adj. 2.07	98.5
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 27/09/2018

Greg McGrann



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HILF DENSITY RATIO REPORT

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42670
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	02/10/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14791	11.15	150	LOT 2142 1m Rear bdy, 3m Left bdy R.L.4.93	14791	-	-	13.5	Adj. 13.0	0.5 WET	2.16	Adj. 2.14	101.0
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS												
14792	11.40	150	LOT 2141 2m Rear bdy, 2m Right bdy R.L.4.85	14792	-	-	12.0	Adj. 11.0	1.0 WET	2.21	Adj. 2.21	100.0
Material Description: BROWN SANDY GRAVELLY 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 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 05/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 05/10/2018

Greg McGrann



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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42665
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	03/10/2018	Tested by	AC 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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14781	7.15	150	LOT 2125 16m Rear bdy, 3m Left bdy R.L.5.91	14781	-	-	13.5	Adj. 15.5	2.0 DRY	2.00	Adj. 2.07	96.5
Material Description: LIGHT GREY-BROWN & RED SILTY SANDY CLAY.												
14782	7.40	150	LOT 2133 8m Rear bdy, 2m Right bdy R.L.5.87	14782	-	-	15.0	Adj. 16.0	1.0 DRY	2.03	Adj. 2.04	99.5
Material Description: YELLOW-BROWN & RED SILTY SANDY CLAY.												
14783	8.15	150	LOT 2154 7m Rear bdy, 2m Right bdy R.L.5.73	14783	-	-	13.0	Adj. 15.0	2.0 DRY	2.07	Adj. 2.05	101.0
Material Description: YELLOW-BROWN SILTY SANDY CLAY.												
14784	8.45	150	LOT 2155 9m Front bdy, 3m Left bdy R.L.5.60	14784	-	-	12.5	Adj. 14.0	1.5 DRY	2.12	Adj. 2.09	101.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY.												
14785	9.30	150	LOT 2157 4m Front bdy, 2m Right bdy R.L.5.44	14785	-	-	12.5	Adj. 13.5	1.0 DRY	2.14	Adj. 2.11	101.5
Material Description: YELLOW-BROWN SILTY SANDY CLAY.												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 04/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 04/10/2018

Greg McGrann



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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42698
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18B	Date Tested	10/10/2018	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 Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14922	13.45	150	LOT 2141 6m Rear bdy, 3m Right bdy R.L.5.95	14922	-	-	14.5	Adj. 13.5	1.0 WET	2.07	Adj. 2.06	100.5
Material Description: LIGHT YELLOW-BROWN SILTY SANDY CLAY												
14923	14.20	150	LOT 2142 7m Rear bdy, 2m Left bdy R.L.6.10	14923	-	-	13.5	Adj. 13.0	0.5 WET	2.02	Adj. 2.08	97.0
Material Description: LIGHT YELLOW-BROWN 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 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 12/10/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

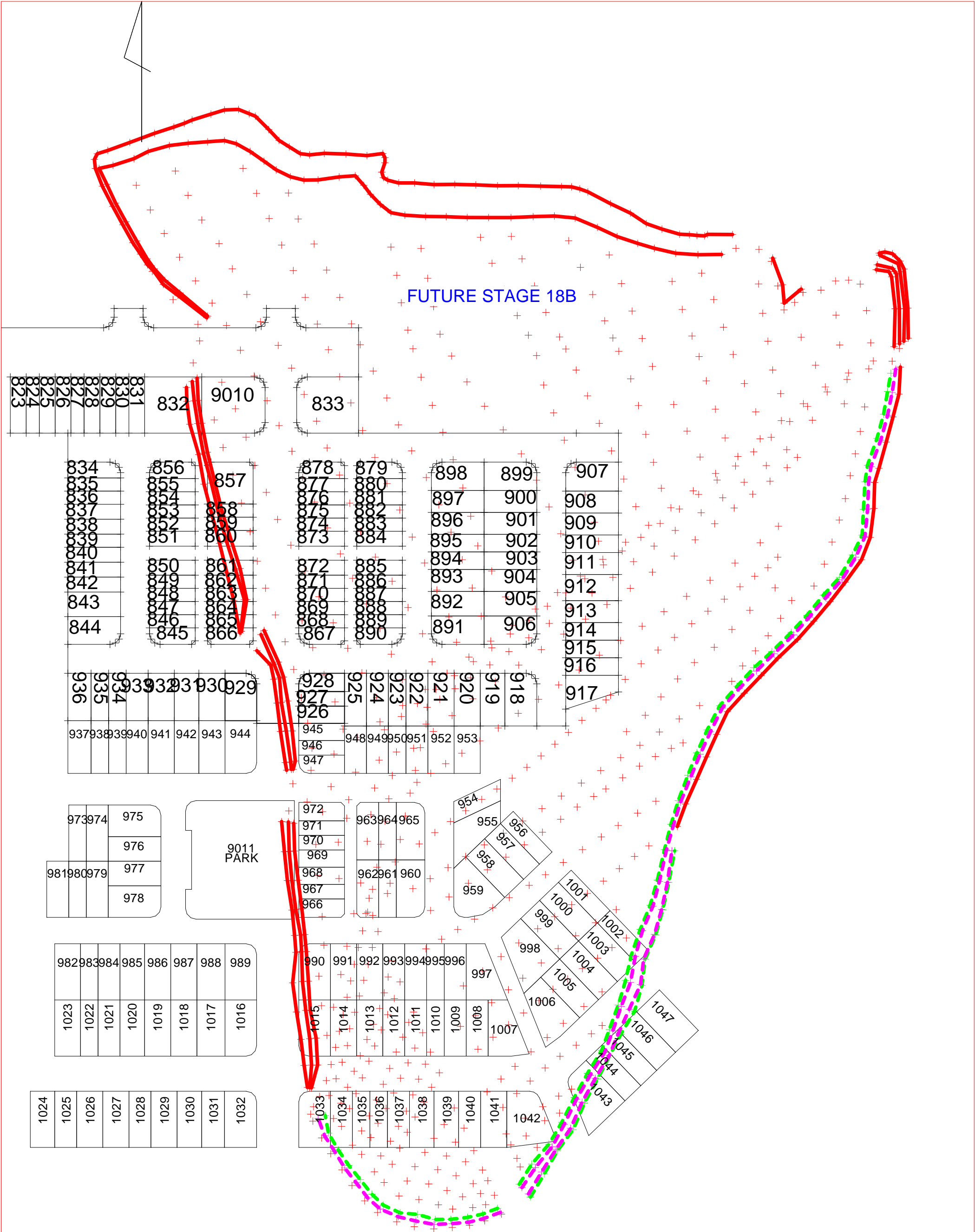
Checked By: R MCGRANN

RMc

Accreditation No. 2415

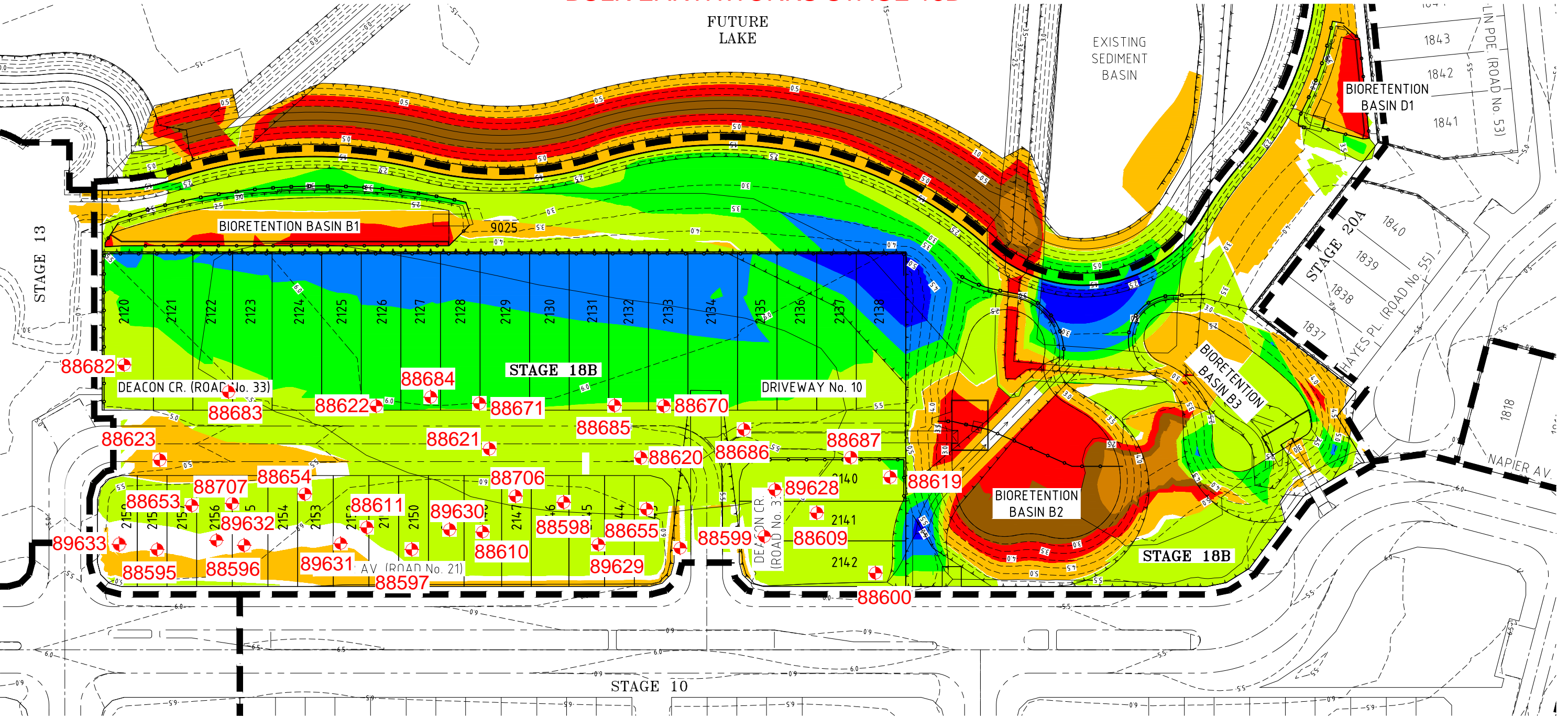
Greg McGrann/Manager
Approved Signatory
Date: 12/10/2018

Greg McGrann



BULK EARTHWORKS STAGE 18B

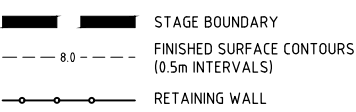
JOINS DWG No. B00242-CE102



CUT/FILL LEGEND



LEGEND



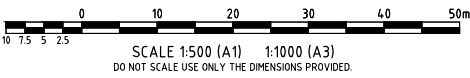
Plan No BST-BEW-ST18B

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NOTE: LOCATION & LEVELS OF ALL EXISTING SERVICES AND PROPOSED STORMWATER OUTLETS TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM A DIAL BEFORE YOU DIG SEARCH PRIOR TO COMMENCEMENT OF WORKS. ANY POTENTIAL CONFLICT OF EXISTING SERVICES OR STORMWATER OUTLETS SHALL BE REPORTED TO THE SUPERINTENDENT.

NOTE:-
FOR EROSION AND SEDIMENT CONTROL DETAILS REFER TO DWG Nos. B00242-CV100 TO B00242-CV109

NOTE:-
EARTHWORKS VOLUMES:
CUT: 9877m³
FILL: 25195m³
VOLUMES HAVE NOT BEEN ADJUSTED FOR BULKING OR COMPACTION.



Client	URBEX PTY. LTD.	Datum	AHD
Project	CAPESTONE STAGE 18B	PSM	38847
Title	EARTHWORKS MANAGEMENT	RL	10.649
	PLAN	(MGA) COORD	
	SHEET 1 OF 2	ISSUED FOR CONSTRUCTION	
		Project No.	B00242-CE101
		Drawing No.	
		Rev	0