



## **Brisbane Soil Testing**

20/1191 Anzac Ave

Kallangur, Q. 4503

Ph. (07) 3285 6536

Email. brissoil@bigpond.net.au

Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

Job No.1418

25 September 2017

BMD Constructions Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

Attn Glen Fuller

### **RE: CAPESTONE ESTATE – STAGE 19**

(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 stage subdivision.

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

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

## **CONTROL INSPECTION AND TESTING**

An inspection of the areas to be filled was carried out on 27 April 2017 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff.

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

Sixty-Seven field density tests were carried between 27 April 2017 and 22 September 2017. These tests recorded Dry Density Ratios between 95.0% and 102.0% relative to the standard compaction test and field moisture contents within -3.0% and +3.0% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B37/11 (Report Nos. 41068, 40970, 40971, 40972, 40973, 40974, 40978, 40979, 40980, 40983, 40984, 40985, 41069, 41072, 41073, 41090, 41104, 41105, 41106, 41107 and 41133) 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- Item 1 of AS3798-2007 and the project specifications.

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



GREG McGRANN  
**BRISBANE SOIL TESTING**



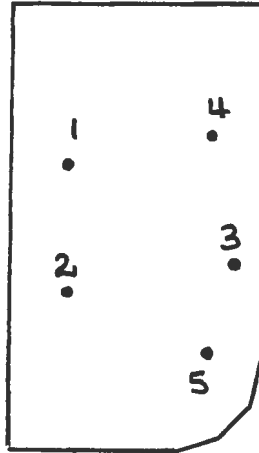
**Brisbane Soil Testing**

20/1191 Anzac Ave  
Kallangur, Q. 4503

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 19

### LOT 1759



-- CRAIGIE ST --

#### Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (9030)	6.5.17	o/s 10m Rear bdy, o/s 3m Left bdy. R.L.3.94	96.0
2 (9180)	18.5.17	o/s 11m Front bdy, o/s 3m Left bdy. R.L.4.32	100.5
3 (10303)	24.8.17	o/s 12m Front bdy, o/s 1m Right bdy. R.L.2.86.	96.5
4 (10389)	29.8.17	o/s 7m Rear bdy, o/s 2m Right bdy. R.L.3.57	99.5
5 (10425)	31.8.17	o/s 6m Front bdy, o/s 2m Right bdy. R.L.4.06	100.5

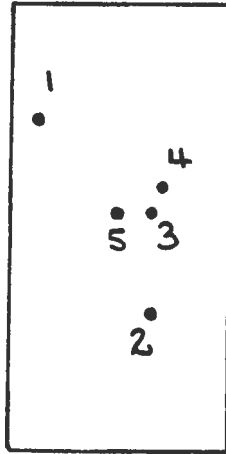
In our opinion fill on Lot 1759 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1760**



-- CRAIGIE ST --

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (8923)	27.4.17	o/s 5m Rear bdy, o/s 1m Left bdy. R.L.3.40.	99.0
2 (9022)	5.5.17	o/s 9m Front bdy, o/s 4m Right bdy. R.L.3.81	97.5
3 (9054)	9.5.17	o/s 12m Rear bdy, o/s 4m Right bdy. R.L.4.40	96.0
4 (9181)	18.5.17	o/s 10m Rear bdy, o/s 5m Right bdy. R.L.4.83	92.5
5 (9395)	7.6.17	o/s 12m Rear bdy, o/s 6m Right bdy. R.L.4.80. Retest	100.5

In our opinion fill on Lot 1760 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1761**



— RICHARD RD —

**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10352)	26.8.17	o/s 5m Front bdy, o/s 3m Left bdy. R.L.2.91	99.5
2 (10388)	29.8.17	o/s 2m Front bdy, o/s 4m Left bdy. R.L.3.51	98.5
3 (10426)	31.8.17	o/s 5m Front bdy, o/s 3m Left bdy. R.L.4.14	99.0

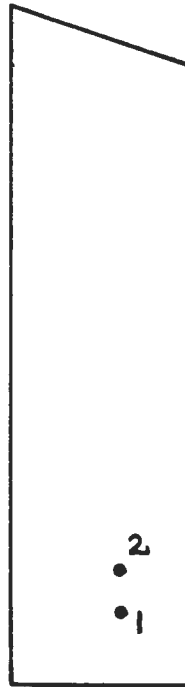
In our opinion fill on Lot 1761 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1762**



----- RICHARD RD -----

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10387)	29.8.17	o/s 3m Front bdy, o/s 4m Right bdy. R.L.3.54	99.0
2 (10427)	31.8.17	o/s 6m Front bdy, o/s 4m Right bdy. R.L.4.30	100.0

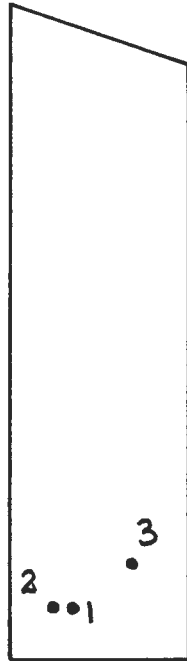
In our opinion fill on Lot 1762 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1763**



--- RICHARD RD ---

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10333)	25.8.17	o/s 3m Front bdy, o/s 3m Left bdy. R.L.3.20	99.0
2 (10386)	29.8.17	o/s 3m Front bdy, o/s 2m Left bdy. R.L.3.87	100.0
3 (10428)	31.8.17	o/s 7m Front bdy, o/s 3m Right bdy. R.L.4.41	100.5

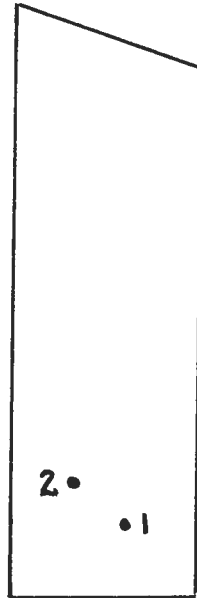
In our opinion fill on Lot 1763 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1764**



----- RICHARD RS -----

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10385)	29.8.17	o/s 4m Front bdy, o/s 4m Right bdy. R.L.3.83	98.5
2 (10429)	31.8.17	o/s 7m Front bdy, o/s 4m Left bdy. R.L.4.50	95.0

In our opinion fill on Lot 1764 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

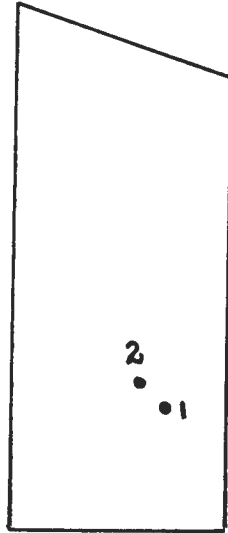
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1765**



----- RICHARD RD -----

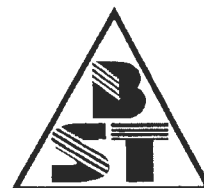
**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10430)	31.8.17	o/s 7m Front bdy, o/s 3m Right bdy. R.L.4.10	99.5
2 (10811)	21.9.17	o/s 8m Front bdy, o/s 4m Right bdy. R.L.4.59.	99.5

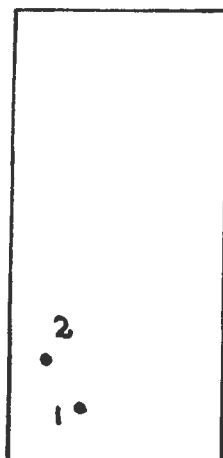
In our opinion fill on Lot 1765 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final 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 19  
LOT 1766**



----- RICHARD RS -----

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10332)	25.8.17	o/s 2m Front bdy, o/s 4m Left bdy. R.L.3.82	97.0
2 (10431)	31.8.17	o/s 4m Front bdy, o/s 2m Left bdy. R.L.4.56	100.5

In our opinion fill on Lot 1766 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 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 19  
LOT 1767**



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RICHARD RD

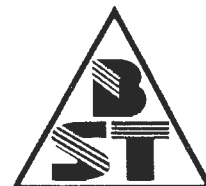
**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10432)	31.8.17	o/s 4m Front bdy, o/s 3m Right bdy. R.L.4.56	101.5

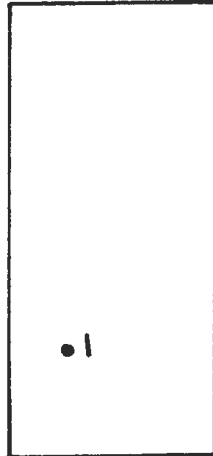
In our opinion fill on Lot 1767 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final 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 19  
LOT 1768**



--- RICHARDS RD ---

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10433)	31.8.17	o/s 7m Front bdy, o/s 4m Left bdy. R.L.5.61	95.0

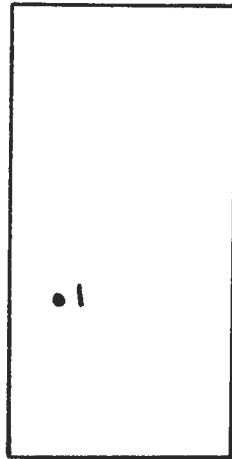
In our opinion fill on Lot 1768 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final 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 19  
LOT 1769**



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RICHARD RD

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10434)	31.8.17	o/s 9m Front bdy, o/s 2m Left bdy. R.L.6.43	98.0

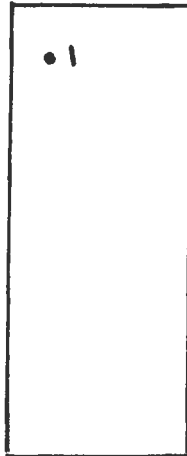
In our opinion fill on Lot 1769 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1770**



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RICHARD RD

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10806)	21.9.17	o/s 2m Rear bdy, o/s 2m Left bdy. R.L.7.53.	100.5

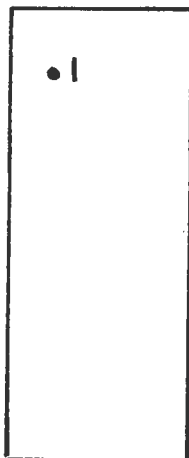
In our opinion fill on Lot 1770 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1771**



----- RICHARD RD -----

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10807)	21.9.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.8.08.	101.0

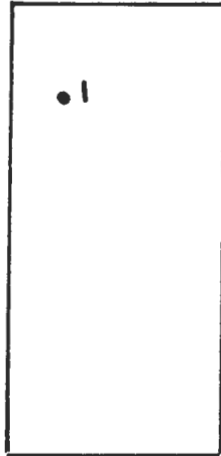
In our opinion fill on Lot 1771 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1772**



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RICHARD RD

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10803)	20.9.17	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.9.07.	97.5

In our opinion fill on Lot 1772 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

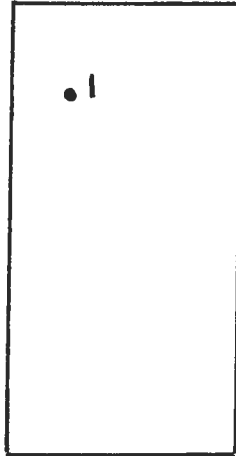
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1773**



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RICHARD RD

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10802)	20.9.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.9.83.	96.5

In our opinion fill on Lot 1773 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1774**



-- RICHARD RD --

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10801)	20.9.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.10.47.	95.5

In our opinion fill on Lot 1774 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1775**



— RICHARD RD —

**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10780)	20.9.17	o/s 2m Rear bdy, o/s 3m Left bdy. R.L.6.57.	96.0

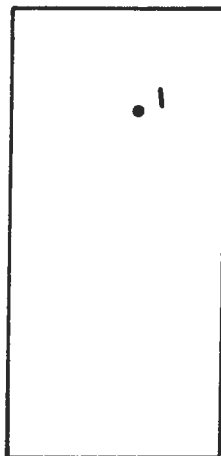
In our opinion fill on Lot 1775 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1776**



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RICHARD RD

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10800)	20.9.17	o/s 4m Rear bdy, o/s 6m Right bdy. R.L.11.21.	99.0

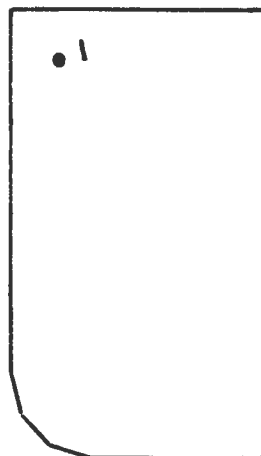
In our opinion fill on Lot 1776 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1777**



— NARBER AVE —

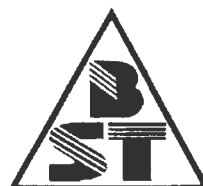
**Field Density Results**

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10808)	21.9.17	o/s 2m Rear bdy, o/s 2m Left bdy. R.L.11.17.	96.0

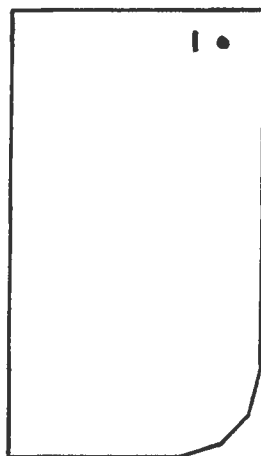
In our opinion fill on Lot 1777 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



**Brisbane Soil Testing**  
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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1780**



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NAPIER AVE  
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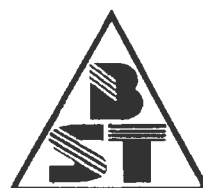
**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10809)	21.9.17	o/s 1m Rear bdy, o/s 2m Right bdy. R.L.9.72.	97.0

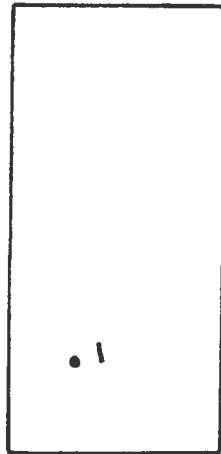
In our opinion fill on Lot 1780 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1781**



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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)
1 (10692)	14.9.17	o/s 6m Front bdy, o/s 3m Left bdy. R.L.9.80.	98.5

In our opinion fill on Lot 1781 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1782**



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CUSACK ST

**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10693)	14.9.17	o/s 7m Front bdy, o/s 4m Left bdy. R.L.9.61.	101.0

In our opinion fill on Lot 1782 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1783**



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CUSACK ST

**Field Density Results**

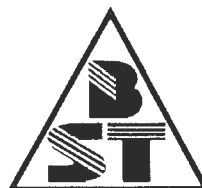
Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10877)	22.9.17	o/s 7m Front bdy, o/s 1m Right bdy. R.L.9.22.	96.5

In our opinion fill on Lot 1783 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

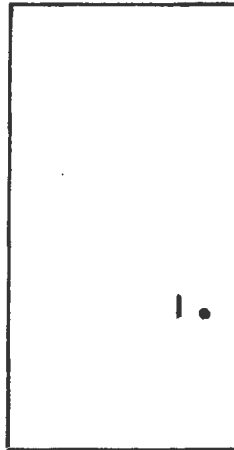
  
.....

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1784**



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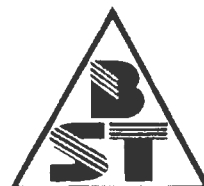
**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10878)	22.9.17	o/s 8m Front bdy, o/s 2m Right bdy. R.L.8.73.	97.5

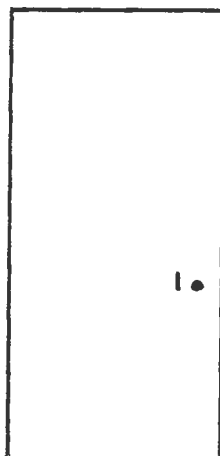
In our opinion fill on Lot 1784 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1785**



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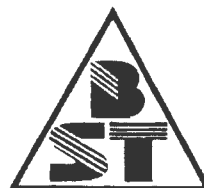
**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10528)	5.9.17	o/s 10m Front bdy, o/s 1m Right bdy. R.L.8.32.	97.0

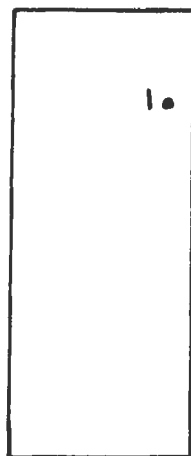
In our opinion fill on Lot 1785 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1786**



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CUSACK ST

**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10527)	5.9.17	o/s 4m Rear bdy, o/s 1m Right bdy. R.L.8.12.	96.5

In our opinion fill on Lot 1786 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT**  
**CAPESTONE ESTATE – STAGE 19**  
**LOT 1790**



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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)
1 (10879)	22.9.17	o/s 1m Front bdy, o/s 2m Right bdy. R.L.6.82.	98.5

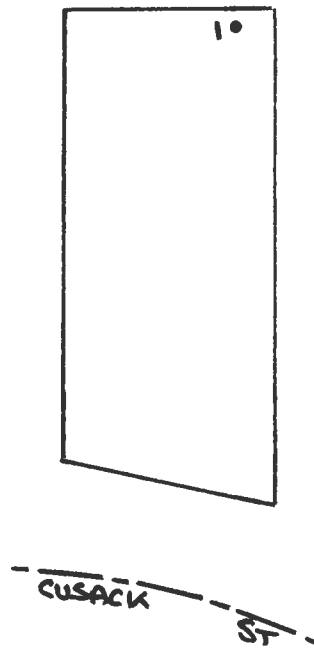
In our opinion fill on Lot 1790 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1791**



**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10810)	21.9.17	o/s 1m Rear bdy, o/s 2m Right bdy. R.L.6.74.	95.5

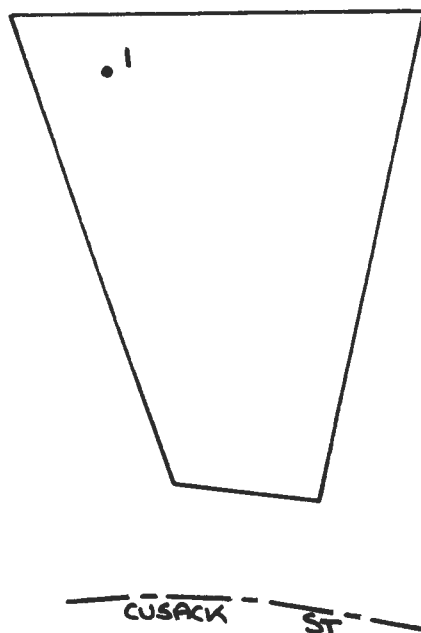
In our opinion fill on Lot 1791 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1792**



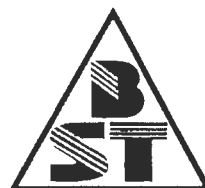
**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10805)	21.9.17	o/s 3m Rear bdy, o/s 4m Left bdy. R.L.6.75.	96.5

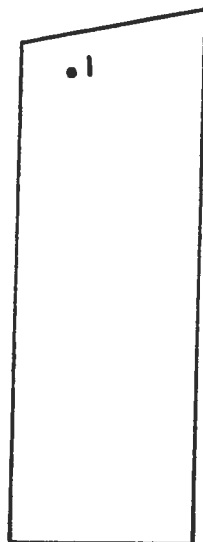
In our opinion fill on Lot 1792 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1793**



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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)
1 (10781)	20.9.17	o/s 2m Rear bdy, o/s 3m Left bdy. R.L.6.72.	97.0

In our opinion fill on Lot 1793 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

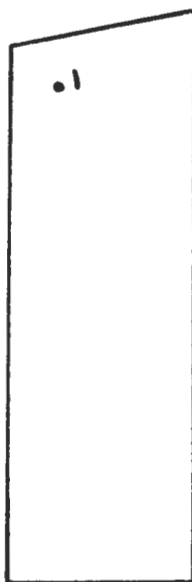
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1794**



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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)
1 (10804)	21.9.17	o/s 2m Rear bdy, o/s 3m Left bdy. R.L.6.60.	98.0

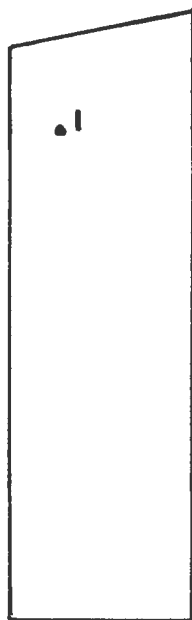
In our opinion fill on Lot 1794 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1795**



— CUSACK — ST —

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10779)	20.9.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.10.89.	98.5

In our opinion fill on Lot 1795 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1796**



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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)
1 (10525)	5.9.17	o/s 6m Rear bdy, o/s 2m Right bdy. R.L.6.54.	101.5

In our opinion fill on Lot 1796 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

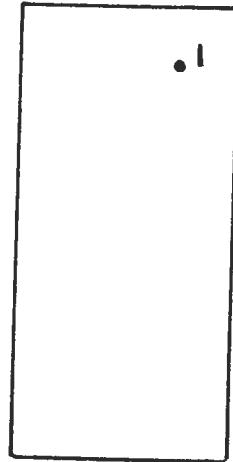


**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1797**



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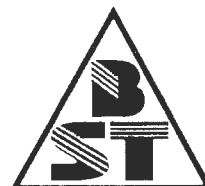
**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10524)	5.9.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.6.62.	99.5

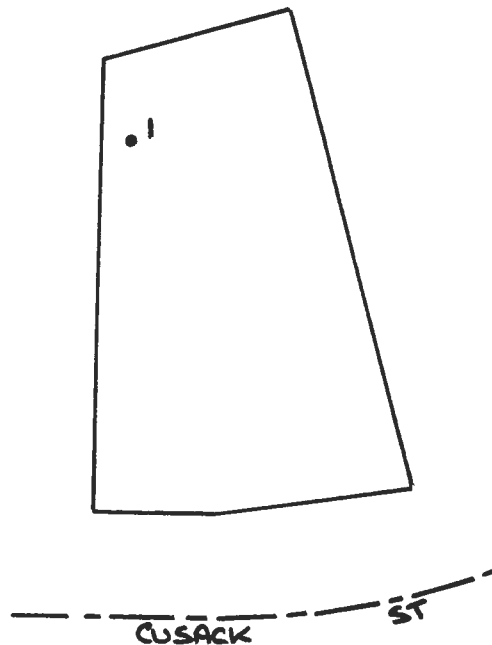
In our opinion fill on Lot 1797 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1798**



**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10523)	5.9.17	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.6.67.	96.5

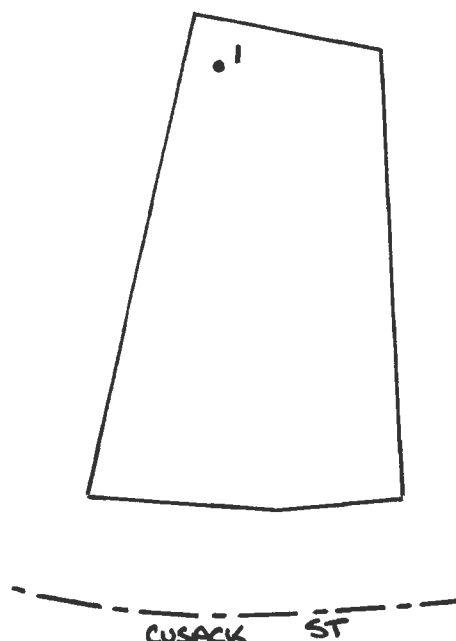
In our opinion fill on Lot 1798 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1799**



**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10522)	5.9.17	o/s 2m Rear bdy, o/s 2m Left bdy. R.L.6.81.	96.5

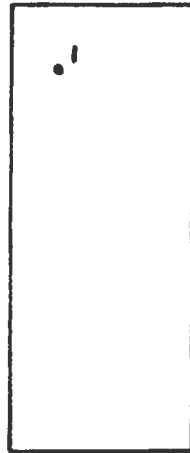
In our opinion fill on Lot 1799 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1800**



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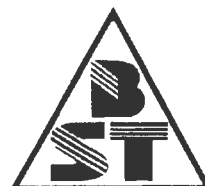
**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10521)	5.9.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.6.88.	95.5

In our opinion fill on Lot 1800 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1801**



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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)
1 (10526)	5.9.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.7.20.	97.5

In our opinion fill on Lot 1801 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

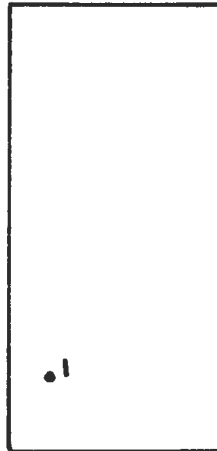
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1802**



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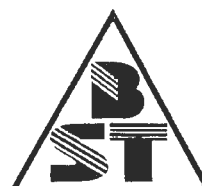
**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10520)	5.9.17	o/s 4m Front bdy, o/s 2m Left bdy. R.L.7.44.	99.0

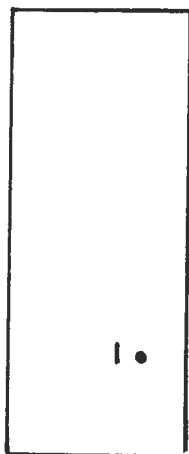
In our opinion fill on Lot 1802 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1803**



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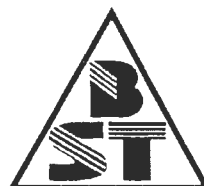
**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10519)	5.9.17	o/s 6m Front bdy, o/s 3m Right bdy. R.L.8.08.	96.5

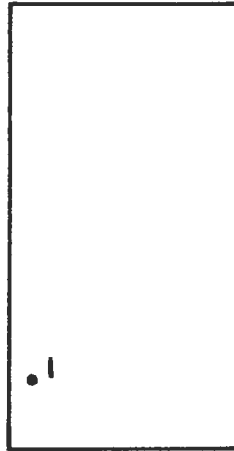
In our opinion fill on Lot 1803 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1804**



- - CUSACK - - ST - -

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10518)	5.9.17	o/s 3m Front bdy, o/s 1m Left bdy. R.L.8.42.	100.0

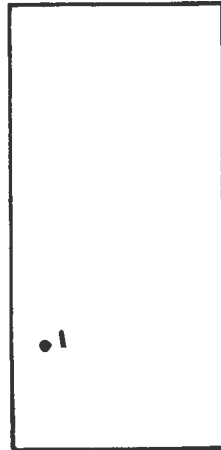
In our opinion fill on Lot 1804 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1805**



— CUSACK ST —

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10517)	5.9.17	o/s 5m Front bdy, o/s 2m Left bdy. R.L.8.80.	102.0

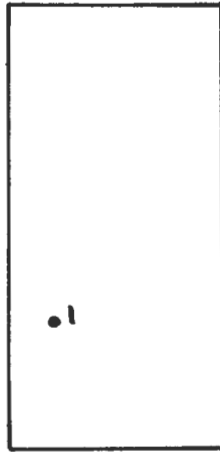
In our opinion fill on Lot 1805 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1806**



----- CUSACK ST -----

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10513)	1.9.17	o/s 7m Front bdy, o/s 3m Left bdy. R.L.9.31	98.5

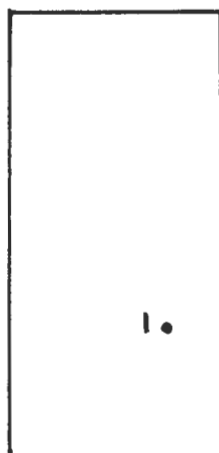
In our opinion fill on Lot 1806 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1807**



----- CUSACK ST -----

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10514)	1.9.17	o/s 8m Front bdy, o/s 3m Right bdy. R.L.9.19.	98.5

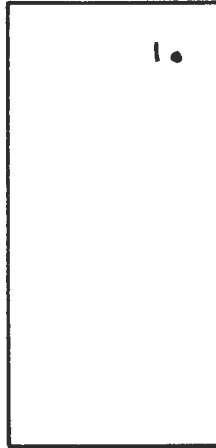
In our opinion fill on Lot 1807 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1810**



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NAPER AVE  
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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)
1 (10516)	1.9.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.8.21.	97.0

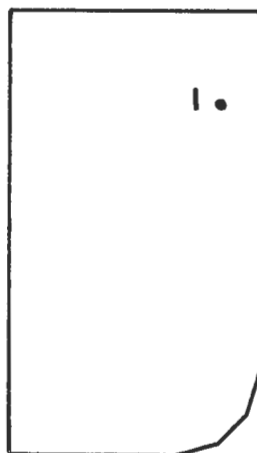
In our opinion fill on Lot 1810 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1811**



- - - - -  
NAPIER AVE

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10515)	1.9.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.7.97.	97.5

In our opinion fill on Lot 1811 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

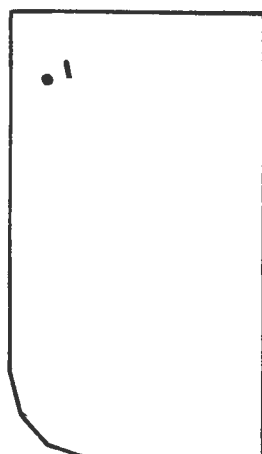
  
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1812**



-- -- NAPIER AVE -- --

**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10691)	14.9.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.8.04.	98.0

In our opinion fill on Lot 1812 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1816**



BERESFORD ST

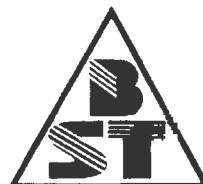
**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10689)	14.9.17	o/s 7m Front bdy, o/s 2m Left bdy. R.L.6.73.	98.0

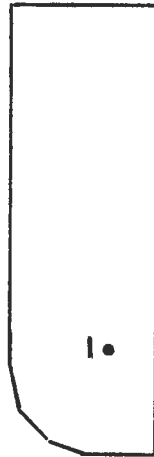
In our opinion fill on Lot 1816 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1817**



BERESFORD ST

**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10688)	14.9.17	o/s 5m Front bdy, o/s 3m Right bdy. R.L.6.70.	99.0

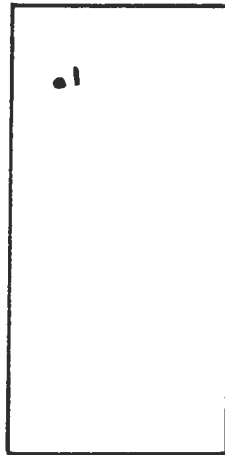
In our opinion fill on Lot has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level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

**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1818**



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NAPER AVE

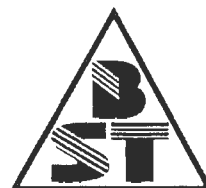
**Field Density Results**

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10690)	14.9.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.6.51.	98.0

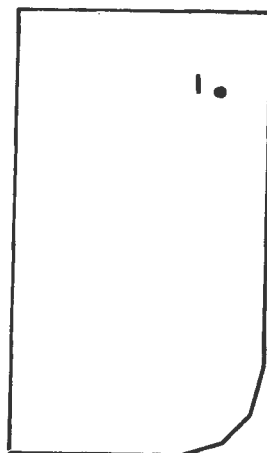
In our opinion fill on Lot 1818 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
.....  
**GREG McGRANN**



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**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 19  
LOT 1836**



--- NAPIER AVE ---

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (10778)	20.9.17	o/s 4m Rear bdy, o/s 3m Right bdy. R.L.11.34.	100.0

In our opinion fill on Lot 1836 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
GREG McGRANN



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41068
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	27/4/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
8923	8.30	150	LOT 1760 5m Rear bdy, 1m Left bdy R.L.3.40	8923	-	-	15.5	Adj. 12.5	3.0 WET	124.0	1.82	Adj. 1.84	99.0
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

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: 19.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 19.9.17

*Greg McGrann*



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40970
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	5/5/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
9022	8.00	150	LOT 1760 9m Front bdy, 4m Right bdy R.L.3.81	9022	-	-	16.0	Adj. 16.0	-	100.0	1.74	Adj. 1.78	97.5
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*



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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40971
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	6/5/2017	Tested by	JC

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
9030	9.00	150	LOT 1759 10m Rear bdy, 3m Left bdy R.L.3.94	9030	-	-	16.5	Adj. 14.5	2.0 WET	114.0	1.74	Adj. 1.81	96.0
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*





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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40972
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	9/5/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
9054	10.00	150	LOT 1760 12m Rear bdy, 4m Right bdy R.L.4.40	9054	-	-	14.5	Adj. 12.5	2.0 WET	116.0	1.87	Adj. 1.95	96.0
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*



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## FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40973
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	18/5/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
9180	9.00	150	LOT 1759 11m Front bdy, 3m Left bdy R.L.4.32	9180	6.0	6.0	14.0	Adj. 14.0	-	100.0	1.86	Adj. 1.85	100.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
9181	9.30	150	LOT 1760 10m Rear bdy, 5m Right bdy R.L.4.83	9181	-	-	14.0	Adj. 12.0	2.0 WET	116.5	1.70	Adj. 1.84	92.5
Material Description: LIGHT 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

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40974
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	7/6/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
9395 <b>RETEST</b>	8.00	150	LOT 1760 12m Rear bdy, 6m Right bdy R.L.4.80	9395	-	-	15.0	Adj. 15.0	-	100.0	1.83	Adj. 1.82	<b>100.5</b>
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

Remarks: Test 9395 is a retest for test 9181.

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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur Q 4503

Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40978
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	24/8/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10303	9.00	150	LOT 1759 12m Front bdy, 1m Right bdy R.L.2.86	10303	-	-	14.5	Adj. 13.5	1.0 WET	107.5	1.83	Adj. 1.90	96.5
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	
								Adj.				Adj.	

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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40979
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	25/8/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10332	9.00	150	LOT 1766 2m Front bdy, 4m Left bdy R.L.3.82	10332	-	-	17.5	Adj. 18.0	0.5 DRY	97.0	1.68	Adj. 1.73	97.0
Material Description: LIGHT GREY-BROWN SILTY CLAY													
10333	9.30	150	LOT 1763 3m Front bdy, 3m Left bdy R.L.3.20	10333	-	-	20.0	Adj. 21.5	1.5 DRY	93.0	1.64	Adj. 1.66	99.0
Material Description: REDDISH-BROWN & GREY 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

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40980
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	26/8/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10352	9.00	150	LOT 1761 5m Front bdy, 3m Left bdy R.L.2.91	10352	-	-	14.0	Adj. 15.5	1.5 DRY	90.5	1.76	Adj. 1.77	99.5
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:													
								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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur Q 4503

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Email: brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40983
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	29/8/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10385	9.00	150	LOT 1764 4m Front bdy, 4m Right bdy R.L.3.83	10385	-	-	18.5	Adj. 17.0	1.5 WET	109.0	1.72	Adj. 1.75	98.5
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY													
10386	9.30	150	LOT 1763 3m Front bdy, 2m Left bdy R.L.3.87	10386	-	-	16.0	Adj. 17.0	1.0 DRY	94.0	1.71	Adj. 1.71	100.0
Material Description: LIGHT BROWN SILTY CLAY													
10387	10.00	150	LOT 1762 3m Front bdy, 4m Right bdy R.L.3.54	10387	-	-	16.5	Adj. 16.5	-	100.0	1.76	Adj. 1.78	99.0
Material Description: LIGHT BROWN SILTY CLAY													
10388	10.30	150	LOT 1761 2m Front bdy, 4m Left bdy R.L.3.51	10388	-	-	15.5	Adj. 16.0	0.5 DRY	97.0	1.73	Adj. 1.76	98.5
Material Description: LIGHT BROWN SILTY CLAY													
10389	11.00	150	LOT 1759 7m Rear bdy, 2m Right bdy R.L.3.57	10389	-	-	16.0	Adj. 15.5	0.5 WET	103.0	1.78	Adj. 1.79	99.5
Material Description: LIGHT BROWN SILTY CLAY													
								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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*





# Brisbane Soil Testing

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Kallangur Q 4503

Ph.(07) 3285 6536

Email: brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40984
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	31/8/2017	Tested by	JM AC

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10425	8.00	150	LOT 1759 6m Front bdy, 2m Right bdy R.L.4.06	10425	-	-	15.0	Adj. 15.5	0.5 DRY	97.0	1.80	Adj. 1.79	100.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
10426	8.00	150	LOT 1761 5m Front bdy, 3m Left bdy R.L.4.14	10426	-	-	16.0	Adj. 16.5	0.5 DRY	97.0	1.76	Adj. 1.78	99.0
Material Description: LIGHT BROWN SILTY SANDY CLAY													
10427	8.30	150	LOT 1762 6m Front bdy, 4m Right bdy R.L.4.30	10427	-	-	17.0	Adj. 15.5	1.5 WET	109.5	1.73	Adj. 1.73	100.0
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS													
10428	8.30	150	LOT 1763 7m Front bdy, 3m Right bdy R.L.4.41	10428	-	-	16.5	Adj. 14.0	2.5 WET	118.0	1.81	Adj. 1.80	100.5
Material Description: LIGHT BROWN SILTY CLAY													
10429	9.00	150	LOT 1764 7m Front bdy, 4m Left bdy R.L.4.50	10429	-	-	6.5	Adj. 9.0	2.5 DRY	72.0	1.98	Adj. 2.08	95.0
Material Description: DARK BROWN SANDY CLAY													
10430	9.00	150	LOT 1765 7m Front bdy, 3m Right bdy R.L.4.10	10430	-	-	14.5	Adj. 14.5	-	100.0	1.81	Adj. 1.82	99.5
Material Description: BROWN SILTY SANDY 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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No. 2415

Greg McGrann/Manager  
Approved Signatory  
Date: 12.9.17

*Greg McGrann*





# Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur Q 4503

Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	40985
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	31/8/2017	Tested by	JM AC

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10431	9.30	150	LOT 1766 4m Front bdy, 2m Left bdy R.L.4.56	10431	-	-	15.5	Adj. 15.0	0.5 WET	103.5	1.78	Adj. 1.77	100.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
10432	9.30	150	LOT 1767 4m Front bdy, 3m Right bdy R.L.4.89	10432	-	-	12.5	Adj. 14.5	2.0 DRY	86.0	1.85	Adj. 1.82	101.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
10433	10.00	150	LOT 1768 7m Front bdy, 4m Left bdy R.L.5.61	10433	-	-	16.0	Adj. 16.0	-	100.0	1.67	Adj. 1.76	95.0
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS													
10434	10.00	150	LOT 1769 9m Front bdy, 2m Left bdy R.L.6.43	10434	-	-	15.0	Adj. 12.5	2.5 WET	120.0	1.87	Adj. 1.91	98.0
Material Description: DARK BROWN SILTY SANDY CLAY													
								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: 12.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RM*

Greg McGrann/Manager

Approved Signatory

Date: 12.9.17

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur Q 4503

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Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41069
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	1/9/2017	Tested by	JM AC

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10513	8.30	150	LOT 1806 7m Front bdy, 3m Left bdy R.L.9.31	10513	-	-	13.0	Adj. 15.5	2.5 DRY	84.0	1.76	Adj. 1.79	98.5
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY.													
10514	9.00	150	LOT 1807 8m Front bdy, 3m Right bdy R.L.9.19	10514	-	-	16.5	Adj. 15.0	1.5 WET	110.0	1.79	Adj. 1.82	98.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.													
10515	9.30	150	LOT 1811 5m Rear bdy, 2m Right bdy R.L.7.97	10515	-	-	13.0	Adj. 14.5	1.5 DRY	89.5	1.79	Adj. 1.84	97.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.													
10516	10.00	150	LOT 1810 3m Rear bdy, 2m Right bdy R.L.8.21	10516	-	-	12.5	Adj. 13.5	1.0 DRY	92.5	1.82	Adj. 1.88	97.0
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS.													
								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: 19.9.17

Checked By: R MCGRANN

*RM*



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 19.9.17

*Greg McGrann*



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTION PTY LTD	Feature	ALLOTMENT FILL	Report No.	41072
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	5/9/2017	Tested by	JC JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10517	8.00	150	LOT 1805 5m Front bdy, 2m Left bdy R.L.8.80	10517	-	-	13.5	Adj. 13.5	-	100.0	1.92	Adj. 1.88	102.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
10518	8.00	150	LOT 1804 3m Front bdy, 1m Left bdy R.L.8.42	10518	-	-	19.0	Adj. 18.0	1.0 WET	105.5	1.78	Adj. 1.78	100.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY													
10519	8.30	150	LOT 1803 6m Front bdy, 3m Right bdy R.L.8.08	10519	-	-	12.0	Adj. 11.5	0.5 WET	104.5	1.90	Adj. 1.97	96.5
Material Description: BROWN SANDY CLAY & FINE ROCK FRAGMENTS													
10520	8.30	150	LOT 1802 4m Front bdy, 2m Left bdy R.L.7.44	10520	-	-	13.5	Adj. 12.5	1.0 WET	108.0	1.86	Adj. 1.88	99.0
Material Description: GREY-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
10521	9.00	150	LOT 1800 3m Rear bdy, 3m Left bdy R.L.6.88	10521	-	-	11.0	Adj. 12.0	1.0 DRY	91.5	1.87	Adj. 1.96	95.5
Material Description: BROWN SANDY CLAY													
10522	9.30	150	LOT 1799 2m Rear bdy, 2m Left bdy R.L.6.81	10522	-	-	15.0	Adj. 17.5	2.0 DRY	88.5	1.73	Adj. 1.79	96.5
Material Description: LIGHT BROWN SILTY 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: 19.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager  
Approved Signatory  
Date: 19.9.17

*Greg McGrann*



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTION PTY LTD	Feature	ALLOTMENT FILL	Report No.	41073
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	5/9/2017	Tested by	JM JC

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10523	9.30	150	LOT 1798 4m Rear bdy, 2m Left bdy R.L.6.67	10523	-	-	12.5	Adj. 12.0	0.5 WET	104.0	1.90	Adj. 1.97	96.5
Material Description: BROWN SANDY CLAY													
10524	10.00	150	LOT 1797 3m Rear bdy, 3m Right bdy R.L.6.62	10524	-	-	9.0	Adj. 9.5	0.5 DRY	94.5	2.03	Adj. 2.04	99.5
Material Description: YELLOW-BROWN SANDY CLAY													
10525	10.00	150	LOT 1796 6m Rear bdy, 2m Right bdy R.L.6.54	10525	-	-	14.5	Adj. 14.0	0.5 WET	103.5	1.88	Adj. 1.85	101.5
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY													
10526	10.30	150	LOT 1801 3m Rear bdy, 2m Left bdy R.L.7.20	10526	-	-	12.5	Adj. 12.5	-	100.0	1.87	Adj. 1.92	97.5
Material Description: LIGHT BROWN SILTY SANDY CLAY													
10527	10.30	150	LOT 1786 4m Rear bdy, 1m Right bdy R.L.8.12	10527	-	-	14.5	Adj. 15.5	1.0 DRY	93.5	1.75	Adj. 1.81	96.5
Material Description: BROWN SILTY SANDY CLAY													
10528	11.00	150	LOT 1785 10m Front bdy, 1m Right bdy R.L.8.32	10528	-	-	15.5	Adj. 16.5	1.0 DRY	94.0	1.72	Adj. 1.77	97.0
Material Description: LIGHT 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: 19.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager  
Approved Signatory  
Date: 19.9.17

*Greg McGrann*



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTION PTY LTD	Feature	ALLOTMENT FILL	Report No.	41090
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	14/9/2017	Tested by	AC

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10688	8.00	150	LOT 1817 5m Front bdy, 3m Right bdy R.L.6.70	10688	-	-	11.5	Adj. 13.5	2.0 DRY	85.0	1.85	Adj. 1.87	99.0
Material Description: LIGHT BROWN SANDY CLAY & FINE ROCK FRAGMENTS													
10689	8.30	150	LOT 1816 7m Front bdy, 2m Left bdy R.L.6.73	10689	-	-	14.0	Adj. 15.5	1.5 DRY	90.5	1.75	Adj. 1.79	98.0
Material Description: GREY-BROWN SILTY SANDY CLAY													
10690	9.00	150	LOT 1818 4m Rear bdy, 3m Left bdy R.L.6.51	10690	-	-	17.0	Adj. 16.0	1.0 WET	106.5	1.74	Adj. 1.78	98.0
Material Description: LIGHT REDDISH-BROWN SILTY CLAY													
10691	9.30	150	LOT 1812 3m Rear bdy, 2m Left bdy R.L.8.04	10691	-	-	12.5	Adj. 14.0	1.5 DRY	89.5	1.81	Adj. 1.85	98.0
Material Description: BROWN SILTY SANDY CLAY													
10692	10.00	150	LOT 1781 6m Front bdy, 3m Left bdy R.L.9.80	10692	-	-	11.5	Adj. 13.0	1.5 DRY	88.5	1.85	Adj. 1.88	98.5
Material Description: YELLOW-BROWN SANDY CLAY & ROCK FRAGMENTS													
10693	10.30	150	LOT 1782 7m Front bdy, 4m Left bdy R.L.9.61	10693	-	-	11.5	Adj. 12.0	0.5 DRY	96.0	1.93	Adj. 1.91	101.0
Material Description: LIGHT BROWN 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: 20.9.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RM*

Accreditation No. 2415

Greg McGrann/Manager  
Approved Signatory  
Date: 20.9.17

*Greg McGrann*



# Brisbane Soil Testing

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41104
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	20/9/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10778	9.00	150	LOT 1836 4m Rear bdy, 3m Right bdy R.L.11.34	10778	-	-	11.5	Adj. 12.5	1.0 DRY	92.0	1.94	Adj. 1.94	100.0
Material Description: LIGHT REDDISH-BROWN SANDY CLAY.													
10779	9.30	150	LOT 1795 4m Rear bdy, 3m Left bdy R.L.10.89	10779	-	-	15.0	Adj. 14.0	1.0 WET	107.0	1.86	Adj. 1.89	98.5
Material Description: LIGHT BROWN SILTY SANDY CLAY.													
10780	10.00	150	LOT 1775 2m Rear bdy, 3m Left bdy R.L.6.57	10780	-	-	12.0	Adj. 15.0	3.0 DRY	80.0	1.76	Adj. 1.83	96.0
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.													
10781	10.30	150	LOT 1793 2m Rear bdy, 3m Left bdy R.L.6.72	10781	-	-	14.0	Adj. 14.0	-	100.0	1.80	Adj. 1.86	97.0
Material Description: LIGHT BROWN SILTY SANDY CLAY.													
								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: 22.9.17

Checked By: R MCGRANN

*RM*



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Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 22.9.17

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## FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41105
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	20/9/2017	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10800	12.00	150	LOT 1776 4m Rear bdy, 6m Right bdy R.L.11.21	10800	-	-	13.0	Adj. 12.5	0.5 WET	104.0	1.90	Adj. 1.92	99.0
Material Description: REDDISH-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.													
10801	12.30	110	LOT 1774 4m Rear bdy, 3m Left bdy R.L.10.47	10801	-	-	11.5	Adj. 14.0	2.5 DRY	82.0	1.77	Adj. 1.85	95.5
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.													
10802	13.00	100	LOT 1773 4m Rear bdy, 3m Left bdy R.L.9.83	10802	-	-	12.5	Adj. 13.5	1.0 DRY	92.5	1.81	Adj. 1.88	96.5
Material Description: LIGHT GREY-BROWN SILTY CLAY & ROCK FRAGMENTS.													
10803	13.30	150	LOT 1772 4m Rear bdy, 2m Left bdy R.L.9.07	10803	-	-	15.0	Adj. 15.0	-	100.0	1.78	Adj. 1.83	97.5
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS.													
								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:22.9.17



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:22.9.17

*Greg McGrann*



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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41106
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	21/9/2017	Tested by	JM GMG

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10804	8.00	150	LOT 1794 2m Rear bdy, 3m Left bdy R.L.6.60	10804	-	-	13.5	Adj. 13.5	-	100.0	1.84	Adj. 1.88	98.0
Material Description: LIGHT BROWN SILTY SANDY CLAY.													
10805	8.30	150	LOT 1792 3m Rear bdy, 4m Left bdy R.L.6.75	10805	-	-	12.5	Adj. 13.0	0.5 DRY	96.0	1.81	Adj. 1.88	96.5
Material Description: LIGHT BROWN SILTY SANDY CLAY.													
10806	9.00	150	LOT 1770 2m Rear bdy, 2m Left bdy R.L.7.53	10806	-	-	10.5	Adj. 12.0	1.5 DRY	87.5	1.92	Adj. 1.91	100.5
Material Description: LIGHT YELLOW-BROWN SANDY CLAY & ROCK FRAGMENTS.													
10807	9.30	150	LOT 1771 3m Rear bdy, 2m Left bdy R.L.8.08	10807	-	-	14.5	Adj. 15.0	0.5 DRY	96.5	1.85	Adj. 1.83	101.0
Material Description: LIGHT REDDISH-BROWN SILTY CLAY & ROCK FRAGMENTS.													
10808	9.30	150	LOT 1777 2m Rear bdy, 2m Left bdy R.L.11.17	10808	-	-	12.0	Adj. 13.5	1.5 DRY	89.0	1.79	Adj. 1.86	96.0
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.													
10809	10.00	150	LOT 1780 1m Rear bdy, 2m Right bdy R.L.9.72	10809	-	-	11.0	Adj. 14.0	3.0 DRY	78.5	1.79	Adj. 1.85	97.0
Material Description: 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: 22.9.17

Checked By: R MCGRANN

*RM*



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 22.9.17

*Greg McGrann*





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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41107
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	21/9/2017	Tested by	GMG

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10810	10.30	150	LOT 1791 1m Rear bdy, 2m Right bdy R.L.6.74	10810	-	-	13.5	Adj. 15.5	2.0 DRY	87.0	1.74	Adj. 1.82	95.5
Material Description: REDDISH-BROWN SILTY CLAY.													
10811	11.00	150	LOT 1765 8m Front bdy, 4m Right bdy R.L.4.59	10811	-	-	15.0	Adj. 14.5	0.5 WET	103.5	1.83	Adj. 1.84	99.5
Material Description: LIGHT 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

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 22.9.17

Checked By: R MCGRANN

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Accreditation No. 2415

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Date: 22.9.17

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## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41133
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 19	Date Tested	22/9/2017	Tested by	JM AC

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m <sup>3</sup>	Max. Dry Density t/m <sup>3</sup>	Dry Density Ratio %
10877	12.45	150	LOT 1783 7m Front bdy, 1m Right bdy R.L.9.22	10877	-	-	14.5	Adj. 15.0	0.5 DRY	96.5	1.78	Adj. 1.84	96.5
Material Description: LIGHT BROWN SILTY SANDY CLAY													
10878	13.15	150	LOT 1784 8m Front bdy, 2m Right bdy R.L.8.73	10878	-	-	12.0	Adj. 11.5	1.0 WET	97.5	1.87	Adj. 1.92	97.5
Material Description: LIGHT BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS													
10879	12.45	150	LOT 1790 1m Front bdy, 2m Right bdy R.L.6.82	10879	-	-	16.5	Adj. 15.5	1.0 WET	98.5	1.78	Adj. 1.81	98.5
Material Description: LIGHT REDDISH-BROWN 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: 25.9.17



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: 25.9.17

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