



## 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

20 May 2019

BMD Constructions Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

Attn Glen Fuller

### **RE: CAPESTONE ESTATE – STAGE 20B (LEVEL 1 REPORT)**

*This report supersedes Capestone Estate – Stage 20B Level 1 report dated 15 April 2019*

(Allotment Fill – Geotechnical Inspection & Testing)

## **SCOPE**

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

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

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

## **CONTROL INSPECTION AND TESTING**

An inspection of a large area known as **Fill Zone 5** which included the Future Stage 20B, was carried out on 23 October 2015, and on an ongoing basis as earthworks progressed. These areas were proof rolled with a loaded water truck, and approval for filling given. **Fill Zone 5**, is shown on the attached Plan No. CE004 REVC.

Bulk earthworks then commenced on this area, known as **Fill Zone 5**, which included the Future Stage 20B. During this bulk earthwork phase, Brisbane Soil Testing supervised and controlled the filling and testing was carried out as per Table 8.1 of AS3798-2007 (Type 1, large scale operations). This phase of the earthworks filling in **Fill Zone 5** was completed on the 20 November 2015.

The locations of all bulk earthworks tests are shown on the attached plan No.BST-BEW-ST20B.

In November 2018, filling to Stage 20B commenced to bring the lots up to the design final level, and this phase of the earthworks was controlled as per Table 8.1 of AS3798- 2007 (Type 2, - Small scale operations).

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

On-site cut materials were used for filling and these materials were generally placed in 0.20m loose horizontal layers and compacted with an 815 and 825 compactor.

One hundred and twenty-nine field density tests were carried during the two phases, which were between 27 October 2015 and 20 November 2015 and again between 12 November 2018 and 10 April 2019.

Forty-eight field density tests were carried out in **Fill Zone 5** during the bulk earthworks phase. These tests recorded Dry Density Ratios between 95.0% and 104.5% relative to the standard compaction test and field moisture contents within -2.5% and +3.0% of their respective optimum moisture contents.

Eighty-one field density tests were carried out during the Civil Phase of filling in Stage 20B. These tests recorded Dry density Ratios between 95.0% and 103.0% relative to the standard compaction test, and field moisture contents with -3.0% and +2.0% of their respective optimum moisture contents.

Attached document B194/0 and B194/0 (Report Nos. 41317-41326, 41328, 41329, 42845, 42911, 42913, 42915, 42916, 42919, 42923, 42924, 43218, 43221, 43228, 43229, 43236, 43241, 43244, 43245, 43379, 43380, 43381, 43427, 43498 and 43502) provide full test data for the compaction control tests.

No fill was placed on Lots 2018, 2019, 2050-2055 and 2059-2061 during our testing and inspection commission between 23 October 2015 – 10 April 2019.

## CONCLUSION

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

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

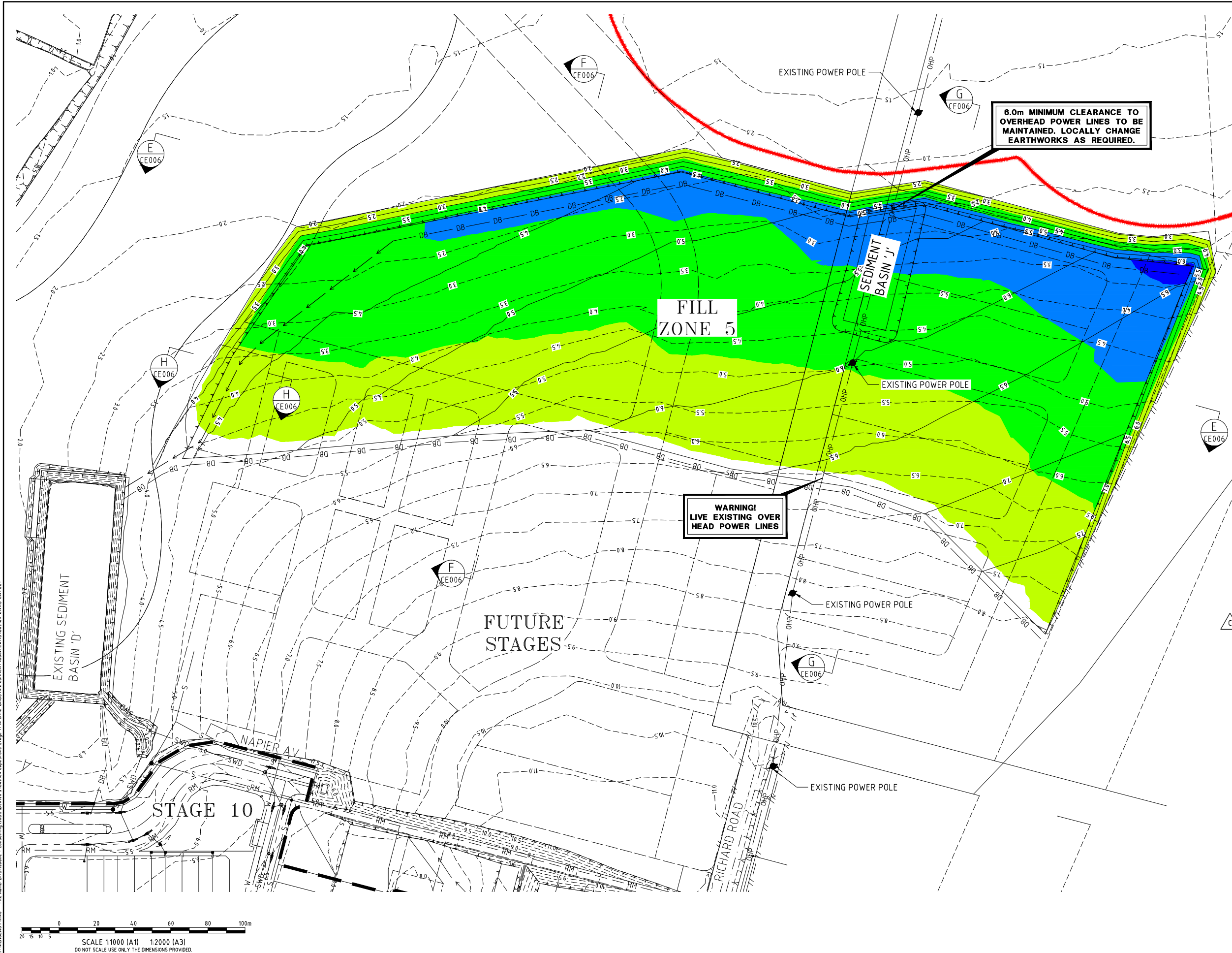


**GREG McGRANN**



**Brisbane Soil Testing**

20/1191 Anzac Ave  
Kallangur, Q. 4503



- LEGEND**
- STAGE BOUNDARY
  - CHENOWETH COMBINED CONSTRAINTS
  - EXISTING SURFACE CONTOURS (0.5m INTERVALS)
  - DESIGN SURFACE CONTOURS (0.5m INTERVALS)
  - DIVERSION BUND
  - DIVERSION DRAIN
  - EXISTING STORMWATER DRAINAGE
  - EXISTING SEWER RISING MAIN
  - EXISTING SEWER GRAVITY MAIN
  - EXISTING OVER HEAD POWER LINES
  - EXISTING WATER MAIN
  - EXISTING POWER POLES

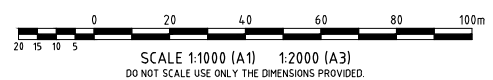
- CUT/FILL LEGEND**
- CUT: 4m +
  - CUT: 3 to 4m
  - CUT: 2 to 3m
  - CUT: 1 to 2m
  - CUT: -0.1 to 1m
  - 0.1 to 0.1m
  - FILL: 0.1 to 1m
  - FILL: 1 to 2m
  - FILL: 2 to 3m



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

**NOTE:-**  
EARTHWORKS VOLUMES:  
CUT: 150,144m³  
FILL (STAGE 17): 19869m³  
FILL (SED BASINS): 3590m³  
FILL (STOCKPILE): 24,010m³  
FILL (FILL ZONE 5): 102675m³  
(VOLUMES HAVE NOT BEEN ADJUSTED FOR BULKING OR COMPACTION.)

**NOTE:-**  
FOR EROSION AND SEDIMENT CONTROL DETAILS REFER TO DWG Nos. B00184-EWKS-CV000 TO B00184-EWKS-CV007.



Plot Date: 4/12/2015 8:43:39 AM  
User: NICOLA.S.PRINS  
File Name: B:\Brisbane - Consulting\B00184-EWKS\B00184-EWKS-LAYOUT  
Stage: 17-14 CIVIL-DIGES-V2 CURRENT BULK EWS\B00184-EWKS-LAYOUT

C	VOLUMES UPDATED TO MATCH CE001	NP	NP	DH	D.L.H.	5694	04.12.15
B	SEDIMENT BASIN J ADDED	NP	NP	DH	DH	5694	24.11.15
A	ORIGINAL ISSUE	ARH	NP	DH	DH	5694	16.09.15
No.	Amendments	Drawn	Design	Appd	Registered Engineer	Reg No.	Date

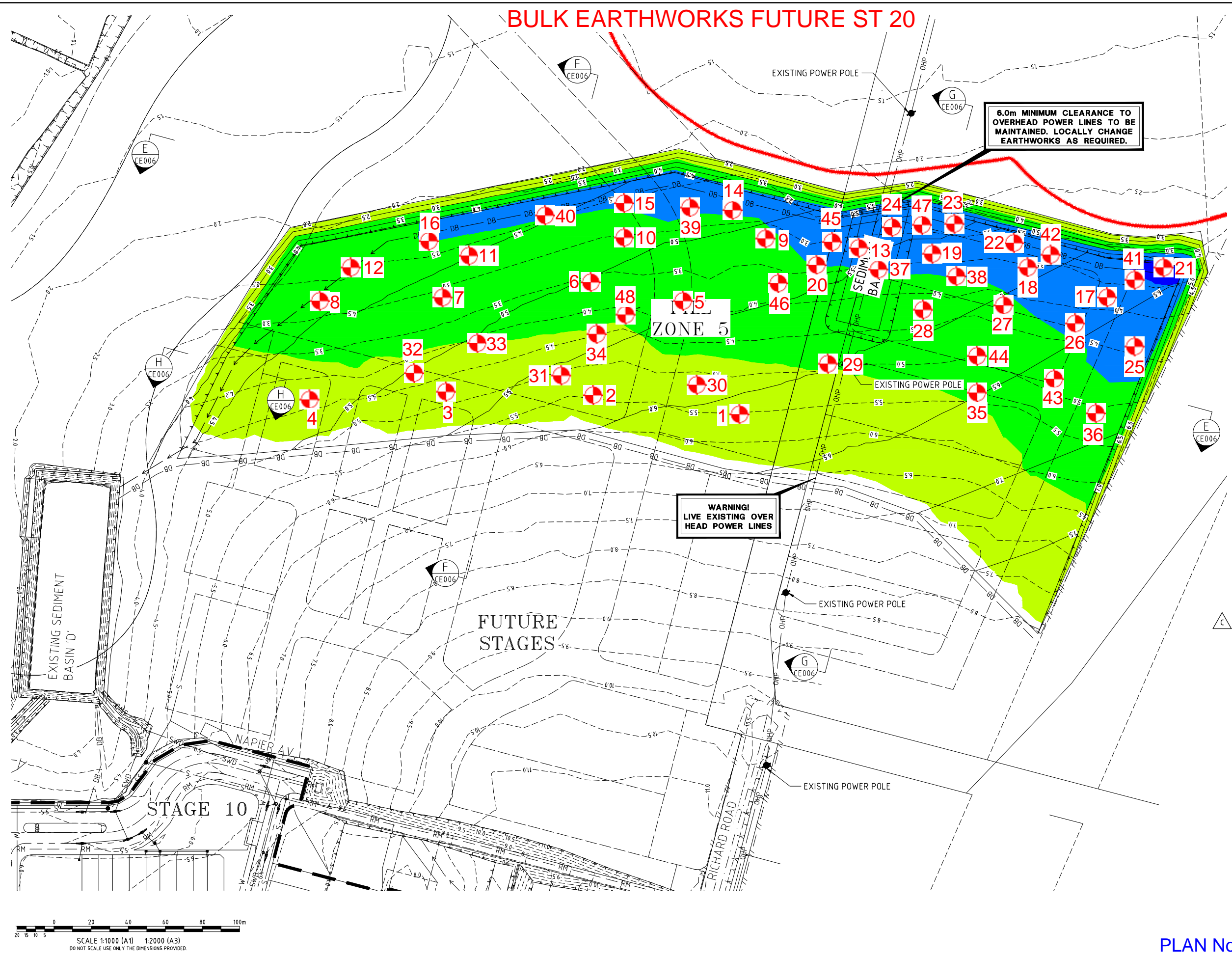
This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of BMD Consulting Pty Ltd. © COPYRIGHT 2015



- CIVIL ENGINEERS
  - STRUCTURAL ENGINEERS
  - PROJECT MANAGERS
- ABN 29 010 749 082

Client	URBEX PTY LTD	Datum	AHD
Project	CAPESTONE STAGE 17 BULK EARTHWORKS	PSM	38847
Title	EARTHWORKS LAYOUT PLAN SHEET 3 OF 3	RL	10.649
		(MGA) COORD	
		Project No.	B00184-EWKS-CE004
		Drawing No.	
		Rev	C





- LEGEND**
- STAGE BOUNDARY
  - CHENOWETH COMBINED CONSTRAINTS
  - EXISTING SURFACE CONTOURS (0.5m INTERVALS)
  - DESIGN SURFACE CONTOURS (0.5m INTERVALS)
  - DB DIVERSION BUND
  - DIVERSION DRAIN
  - EXISTING STORMWATER DRAINAGE
  - EXISTING SEWER RISING MAIN
  - EXISTING SEWER GRAVITY MAIN
  - EXISTING OVER HEAD POWER LINES
  - EXISTING WATER MAIN
  - EXISTING POWER POLES

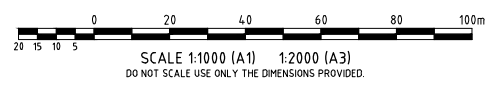
- CUT/FILL LEGEND**
- CUT: 4m +
  - CUT: 3 to 4m
  - CUT: 2 to 3m
  - CUT: 1 to 2m
  - CUT: -0.1 to 1m
  - 0.1 to 0.1m
  - FILL: 0.1 to 1m
  - FILL: 1 to 2m
  - FILL: 2 to 3m



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

**NOTE:-**  
EARTHWORKS VOLUMES:  
CUT: 150,144m³  
FILL (STAGE 17): 19869m³  
FILL (SED BASINS): 3590m³  
FILL (STOCKPILE): 24010m³  
FILL (FILL ZONE 5): 102675m³  
(VOLUMES HAVE NOT BEEN ADJUSTED FOR BULKING OR COMPACTION.)

**NOTE:-**  
FOR EROSION AND SEDIMENT CONTROL DETAILS REFER TO DWG Nos. B00184-EWKS-CV000 TO B00184-EWKS-CV007.



PLAN No BST- BEW - ST20B

C		VOLUMES UPDATED TO MATCH CE001	NP	NP	DH	D.L.H.	5694	04.12.15
B		SEDIMENT BASIN J ADDED	NP	NP	DH	DH	5694	24.11.15
A		ORIGINAL ISSUE	ARH	NP	DH	DH	5694	16.09.15
No.		Amendments	Drawn	Design	Appd	Registered Engineer	Reg No.	Date

This drawing cannot be copied or reproduced in any form or used for any purpose other than that originally intended without the written permission of BMD Consulting Pty Ltd. © COPYRIGHT 2015

- CIVIL ENGINEERS
- STRUCTURAL ENGINEERS
- PROJECT MANAGERS

ABN 29 010 749 082

Client  
**URBEX PTY LTD**

Project  
**CAPESTONE STAGE 17 BULK EARTHWORKS**

Title  
**EARTHWORKS LAYOUT PLAN SHEET 3 OF 3**

Datum  
AHD  
PSM 38847  
RL 10.649  
(MGA) COORD

**NOT FOR CONSTRUCTION**

Project No.  
**B00184-EWKS-CE004**

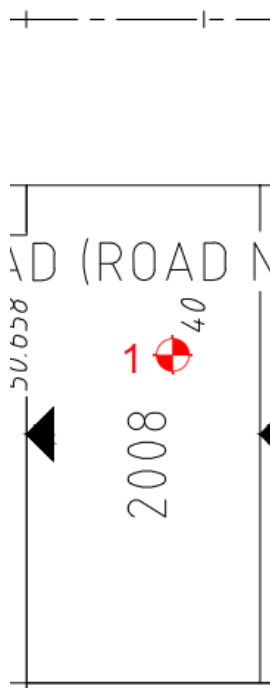
Drawing No.  
**C**

Rev

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2008



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15946)	14.01.19	o/s 8m Front bdy, o/s 3m Left bdy. R.L.5.73.	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2008 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 GREG McGRANN

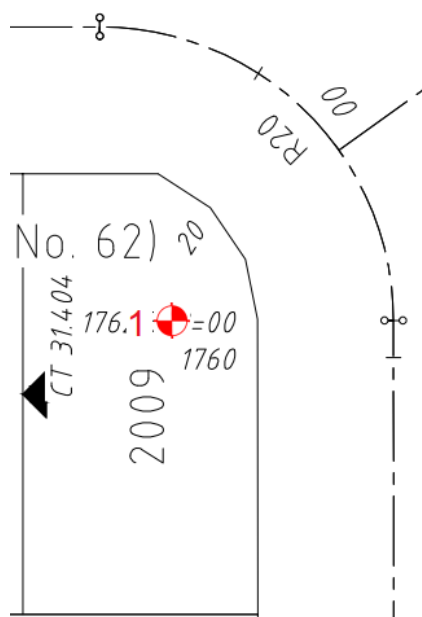


**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2009



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16040)	18.01.19	o/s 8m Front bdy, o/s 3m Left bdy. R.L.5.62.	100.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

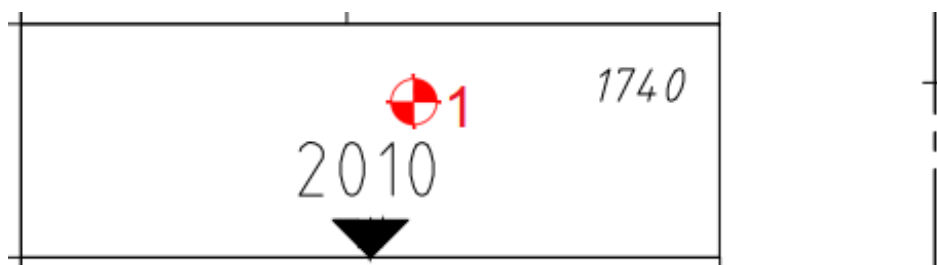
In our opinion all fill on Lot 2009 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2010**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15945)	14.01.19	o/s 10m Front bdy, o/s 2m Right bdy. R.L.5.81.	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2010 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**

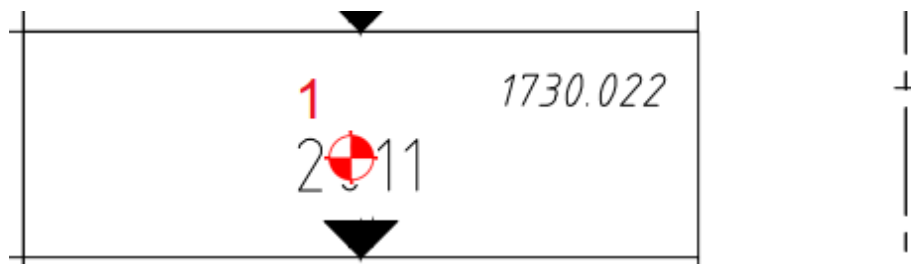


**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2011



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15944)	14.01.19	o/s 12m Rear bdy, o/s 3m Left bdy. R.L.5.90.	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

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

  
 .....  
**GREG McGRANN**



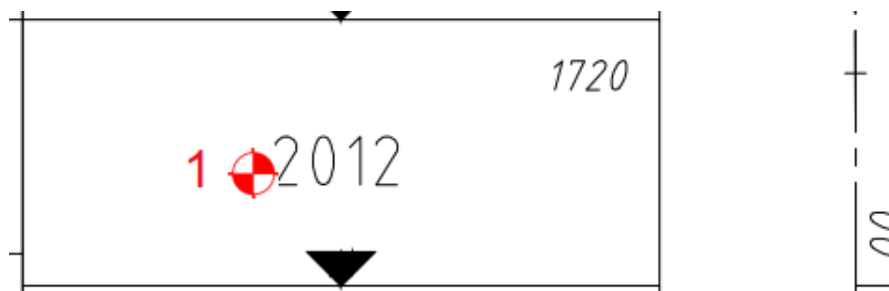
**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536



# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2012



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15373)	26.11.18	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.6.04.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2012 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**

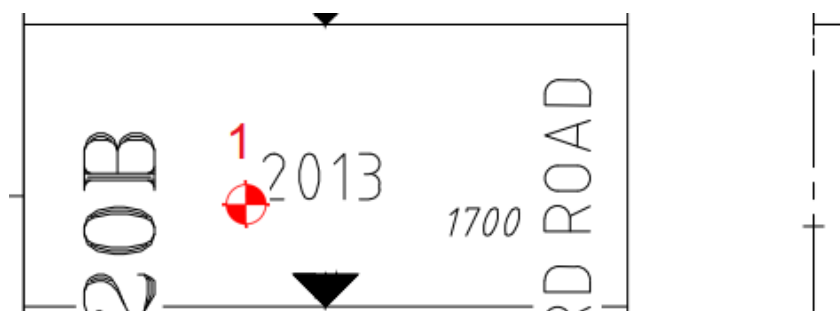


**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2013



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15271)	19.11.18	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.6.10.	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

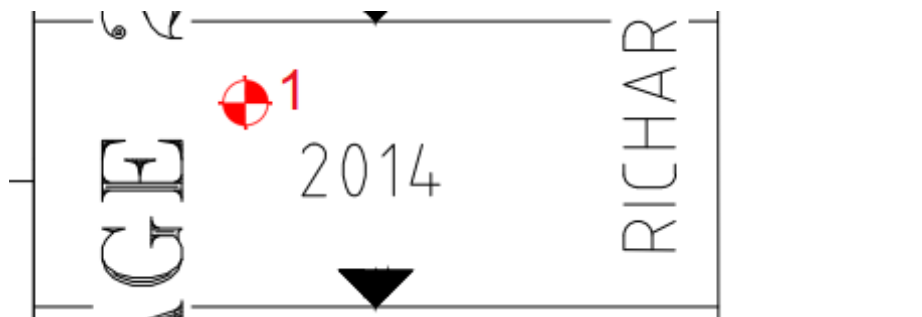
In our opinion all fill on Lot 2013 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2014**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15270)	19.11.18	o/s 7m Rear bdy, o/s 2m Right bdy. R.L.6.21.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2014 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**

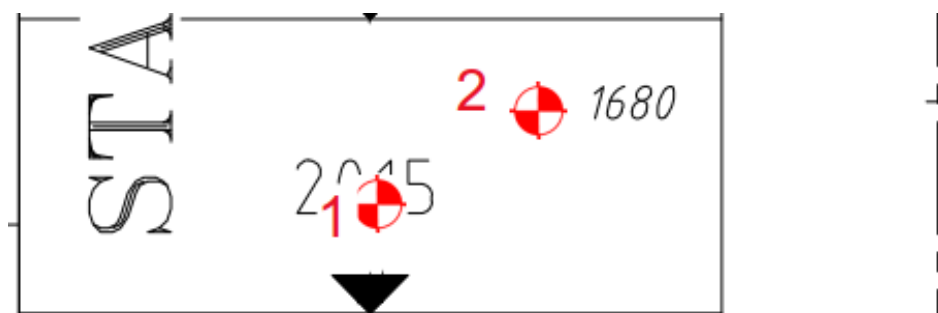


**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2015



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15959)	15.01.19	o/s 10m Front bdy, o/s 2m Left bdy. R.L.5.85.	96.0
2 (15960)	15.01.19	o/s 5m Front bdy, o/s 2m Right bdy. R.L.6.34.	97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2015 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**

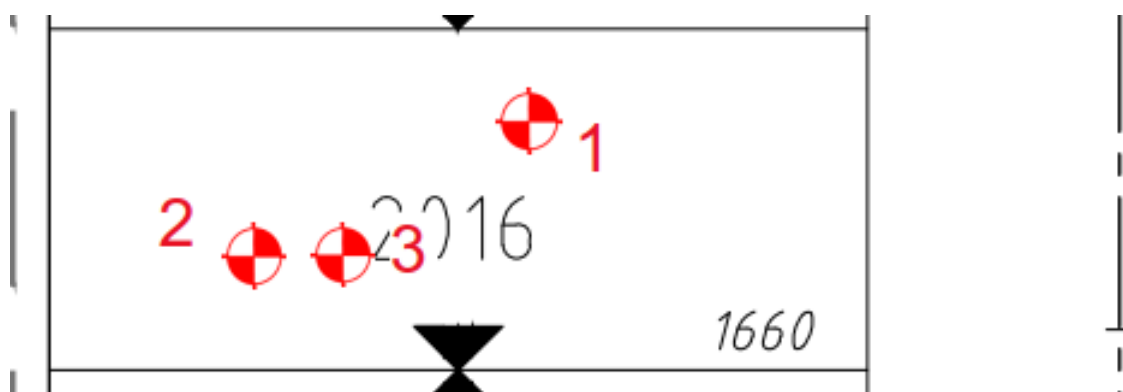


**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2016



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15958)	15.01.19	o/s 7m Front bdy, o/s 3m Right bdy. R.L.5.98.	95.5
2 (15961)	15.01.19	o/s 5m Rear bdy, o/s 3m Left bdy. R.L.6.43.	92.0
3 (16497)	19.02.19	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.6.40. Retest	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2016 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

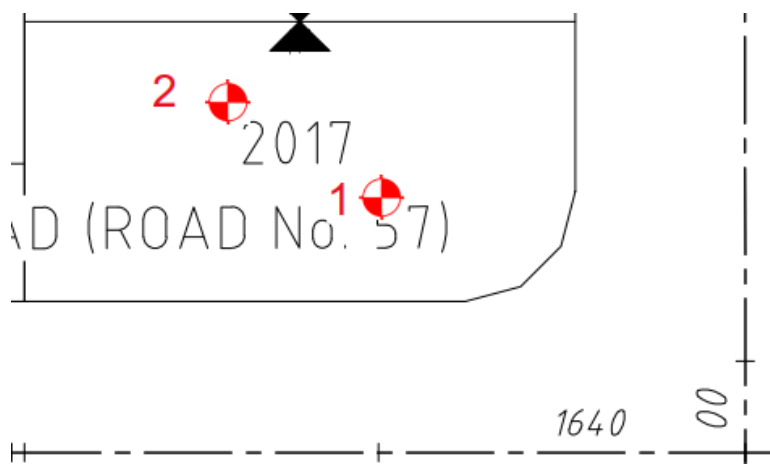
  
 .....  
**GREG McGRANN**



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



**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2017**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15957)	15.01.19	o/s 6m Front bdy, o/s 3m Left bdy. R.L.5.91.	95.5
2 (15962)	15.01.19	o/s 12m Front bdy, o/s 2m Right bdy. R.L.6.30.	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2017 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
.....  
**GREG McGRANN**

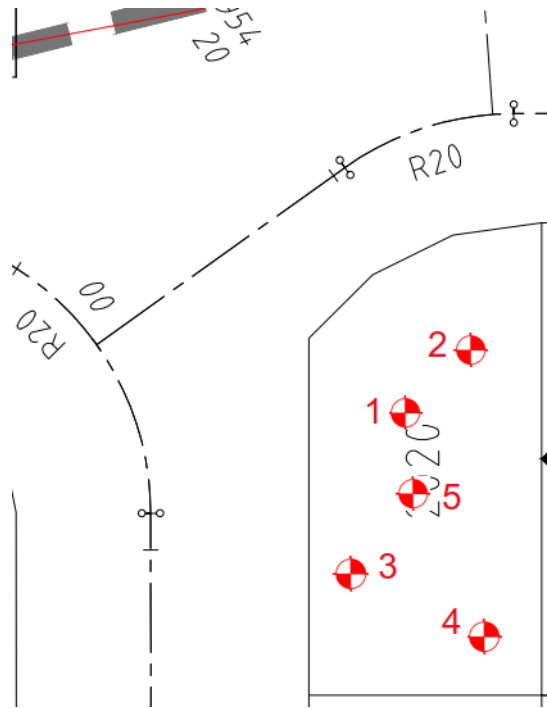


**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2020



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15188)	14.11.18	o/s 9m Front bdy, o/s 4m Right bdy. R.L.3.21.	95.5
2 (15217)	15.11.18	o/s 6m Front bdy, o/s 3m Left bdy. R.L.3.66.	97.0
3 (15260)	16.11.18	o/s 7m Rear bdy, o/s 1m Right bdy. R.L.4.23.	99.0
4 (16493)	19.02.19	o/s 4m Rear bdy, o/s 3m Right bdy. R.L.4.98	98.5
5 (16966)	10.04.19	o/s 9m Front bdy, o/s 6m Right bdy. R.L.5.70.	99.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

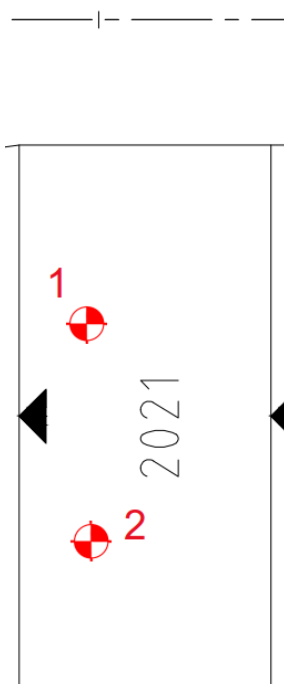
In our opinion all fill on Lot 2020 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2021**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16494)	19.02.19	o/s 8m Front bdy, o/s 2m Right bdy. R.L.5.24.	95.5
2 (16818)	20.03.19	o/s 7m Rear bdy, o/s 3m Right bdy. R.L.5.75.	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

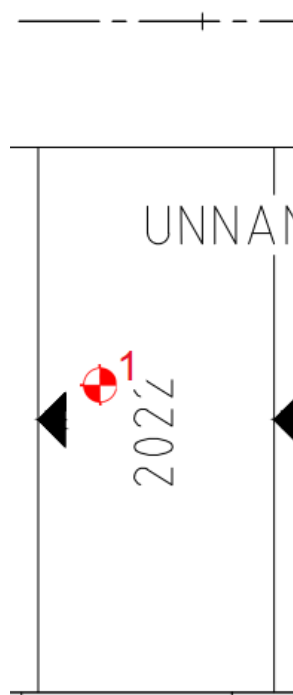
In our opinion all fill on Lot 2021 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2022**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16046)	18.01.19	o/s 10m Front bdy, o/s 2m Right bdy. R.L.5.80.	96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

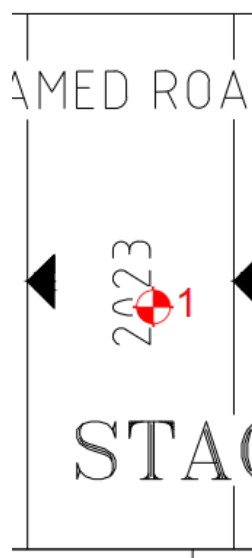
In our opinion all fill on Lot 2022 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2023**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16047)	18.01.19	o/s 13m Front bdy, o/s 4m Left bdy. R.L.5.91.	97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2023 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

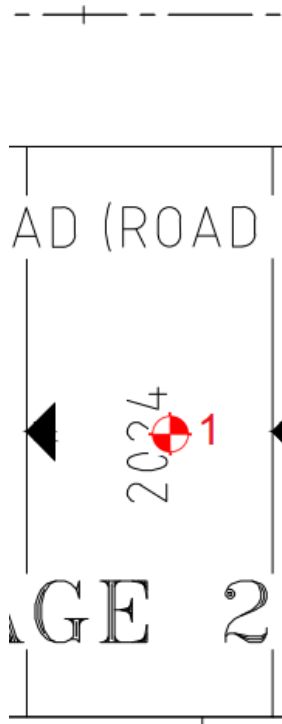
  
.....  
**GREG McGRANN**



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



**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2024**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16048)	18.01.19	o/s 12m Rear bdy, o/s 3m Left bdy. R.L.6.10	103.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2024 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

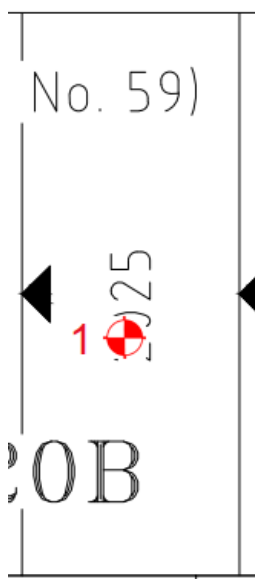
  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2025**

- - - - - + - - - - -



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16049)	18.01.19	o/s 14m Front bdy, o/s 4m Right bdy. R.L.6.04.	102.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

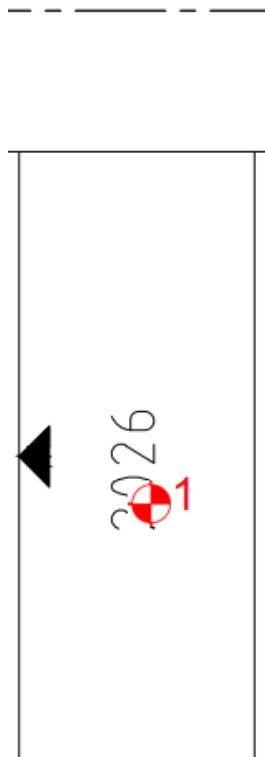
In our opinion all fill on Lot 2025 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2026**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16050)	18.01.19	o/s 15m Front bdy, o/s 3m Left bdy. R.L.5.93.	102.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2026 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**

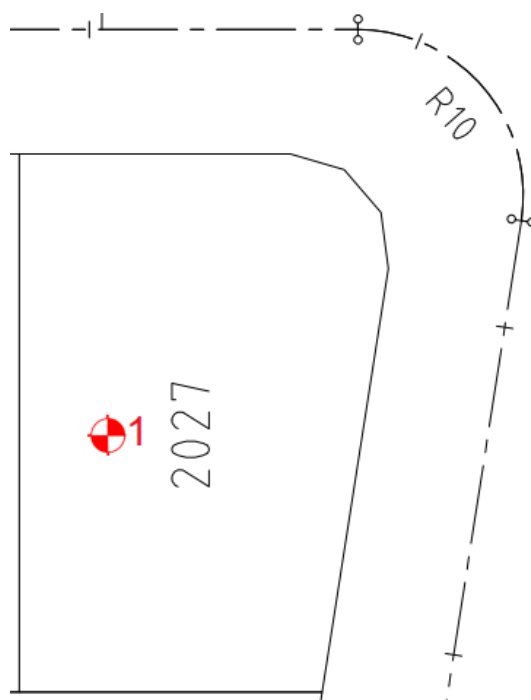


**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2027



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16051)	18.01.19	o/s 13m Rear bdy, o/s 4m Right bdy. R.L.5.91.	99.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2027 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**

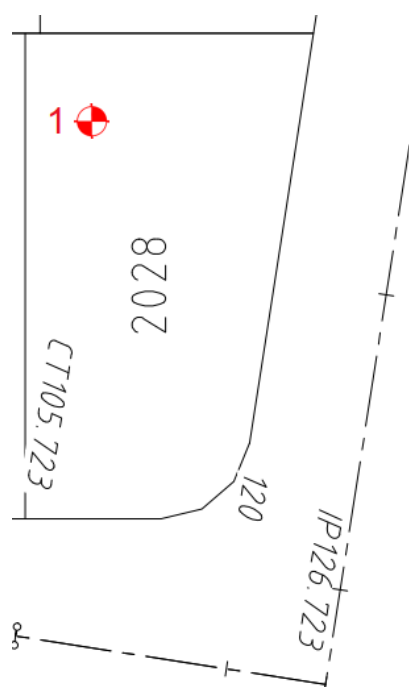


**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2028



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15376)	26.11.18	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.6.26.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2028 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



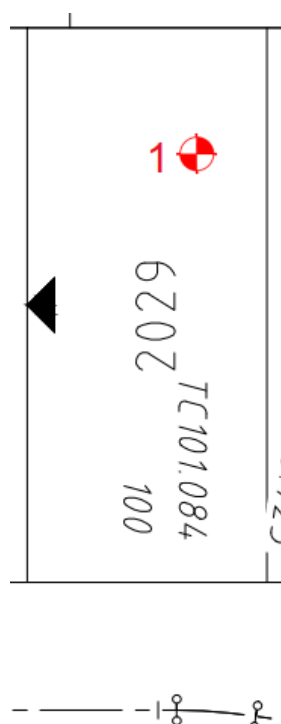
**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536



# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2029



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15377)	26.11.18	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.6.41.	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

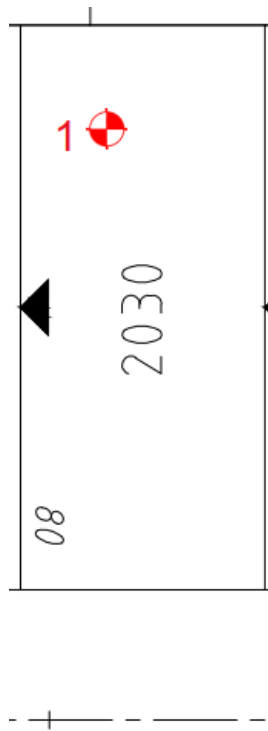
In our opinion all fill on Lot 2029 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2030**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15378)	26.11.18	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.6.44.	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

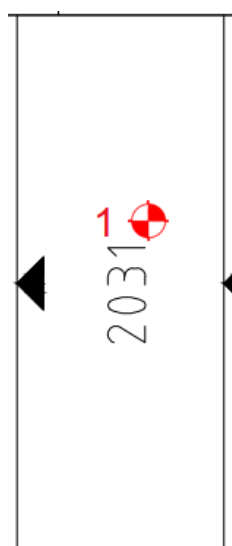
In our opinion all fill on Lot 2030 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2031**



-----

**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16043)	18.01.19	o/s 15m Front bdy, o/s 4m Right bdy. R.L.6.53.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2031 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**

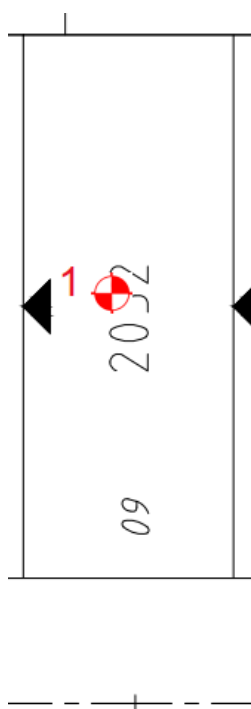


**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2032



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16044)	18.01.19	o/s 13m Front bdy, o/s 5m Left bdy. R.L.6.48.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

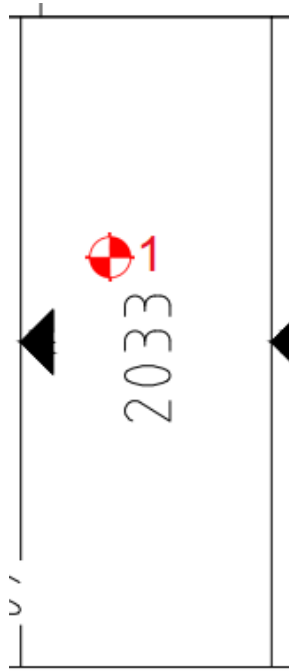
In our opinion all fill on Lot 2032 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2033**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16045)	18.01.19	o/s 15m Front bdy, o/s 4m Left bdy. R.L.6.33.	96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2033 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

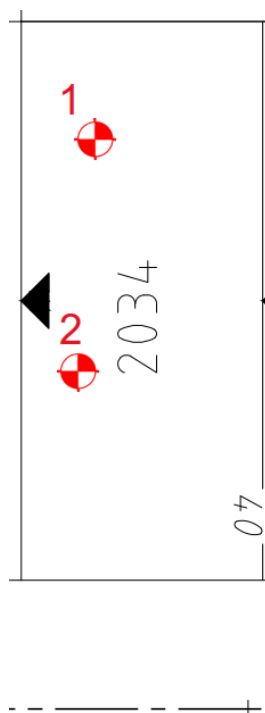
  
.....  
**GREG McGRANN**



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



**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2034**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16495)	19.02.19	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.5.37.	97.0
2 (16817)	20.03.19	o/s 12m Front bdy, o/s 2m Left bdy. R.L.5.80.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2034 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**

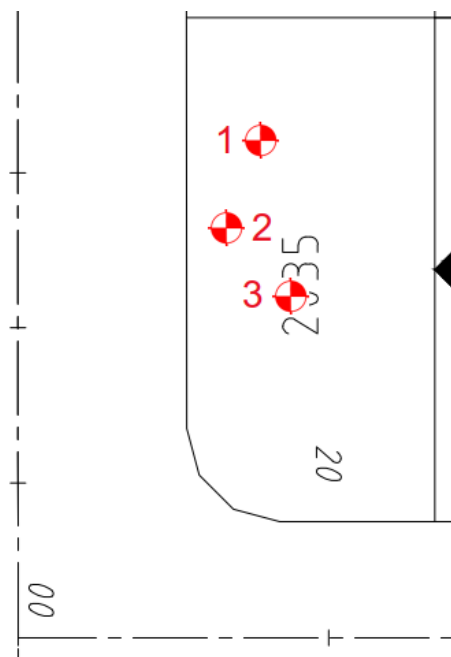


**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2035



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15216)	15.11.18	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.4.53.	101.5
2 (15303)	20.11.18	o/s 10m Rear bdy, o/s 1m Left bdy. R.L.5.28.	102.5
3 (16894)	02.04.19	o/s 11m Front bdy, o/s 4m Left bdy. R.L.5.72.	96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

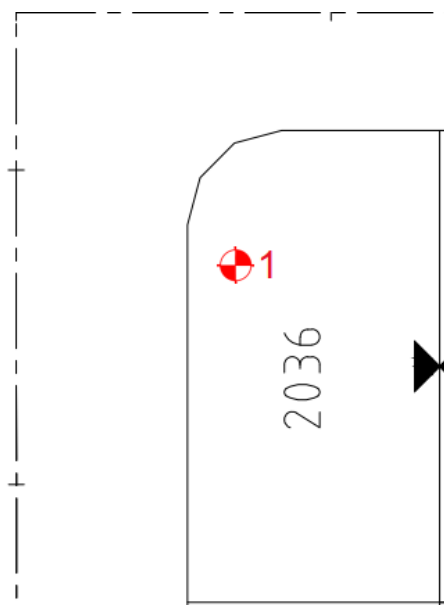
In our opinion all fill on Lot 2035 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2036**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16207)	30.01.19	o/s 5m Front bdy, o/s 3m Right bdy. R.L.5.88	99.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

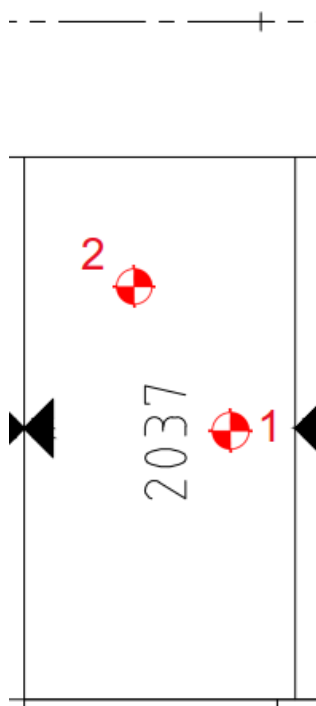
In our opinion all fill on Lot 2036 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2037**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16041)	18.01.19	o/s 11m Rear bdy, o/s 2m Right bdy. R.L.6.22.	100.0
2 (16518)	21.02.19	o/s 3m Front bdy, o/s 4m Left bdy. R.L.6.02.	97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

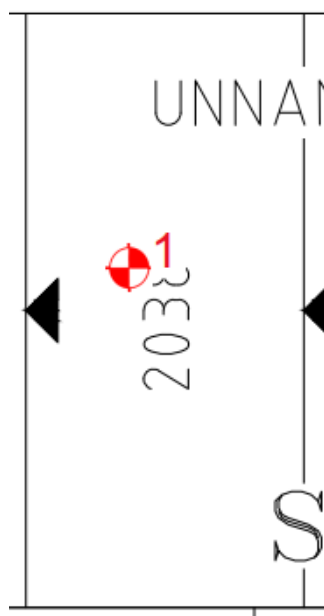
In our opinion all fill on Lot 2037 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2038**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16152)	25.01.19	o/s 10m Front bdy, o/s 4m Right bdy. R.L.6.40.	100.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

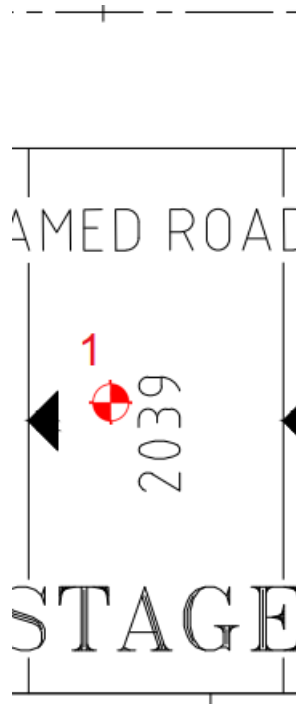
In our opinion all fill on Lot 2038 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2039**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16153)	25.01.19	o/s 10m Front bdy, o/s 3m Right bdy. R.L.6.50.	96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

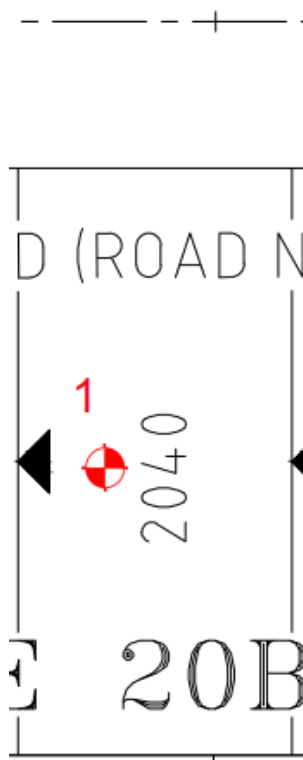
In our opinion all fill on Lot 2039 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2040**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16154)	25.01.19	o/s 10m Front bdy, o/s 2m Right bdy. R.L.6.51.	95.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2040 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

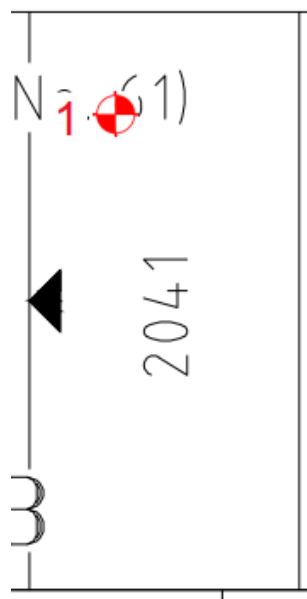
  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2041**

- - - - -



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16519)	21.02.19	o/s 2m Front bdy, o/s 3m Right bdy. R.L.6.32.	96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2041 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



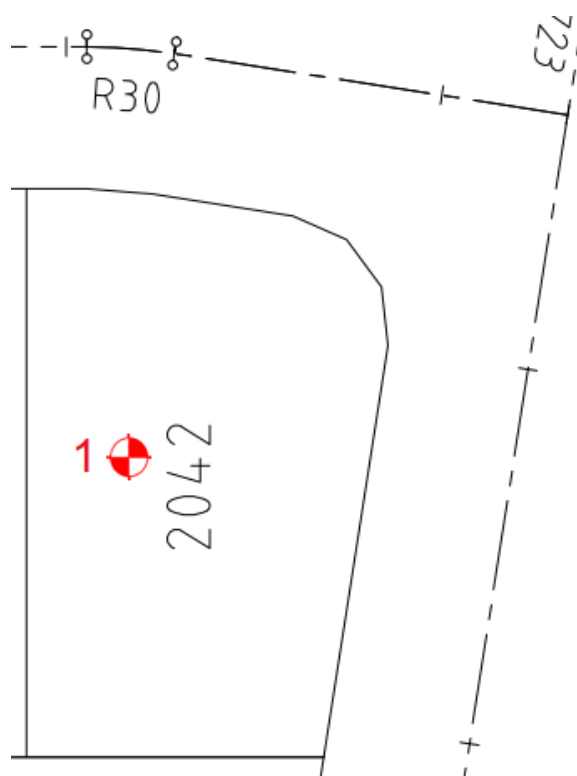
**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536



# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2042



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16155)	25.01.19	o/s 10m Front bdy, o/s 3m Right bdy. R.L.6.49.	98.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2042 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

  
 .....  
**GREG McGRANN**

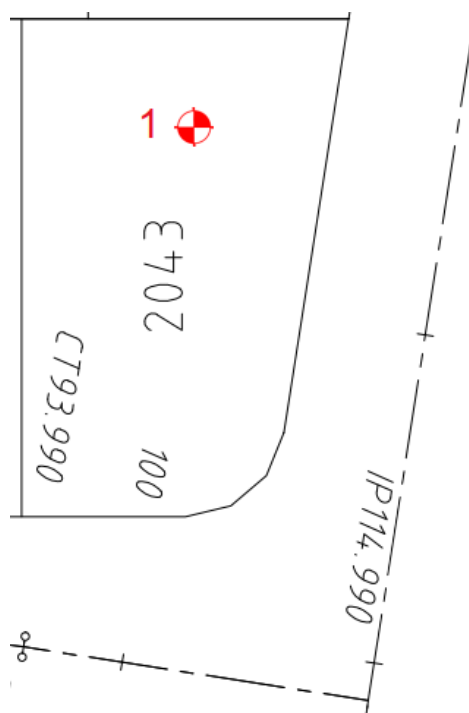


**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2043



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16514)	21.02.19	o/s 3m Rear bdy, o/s 6m Right bdy. R.L.6.87.	95.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2043 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**

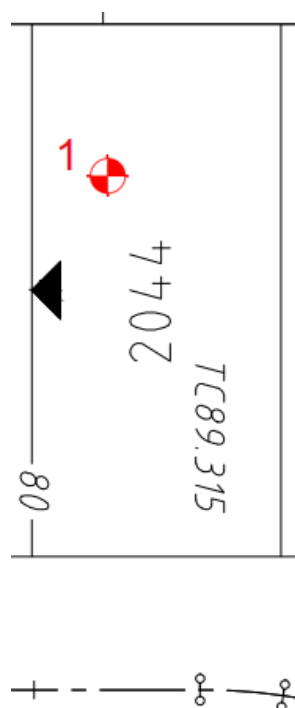


**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2044



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16515)	21.02.19	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.7.03.	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

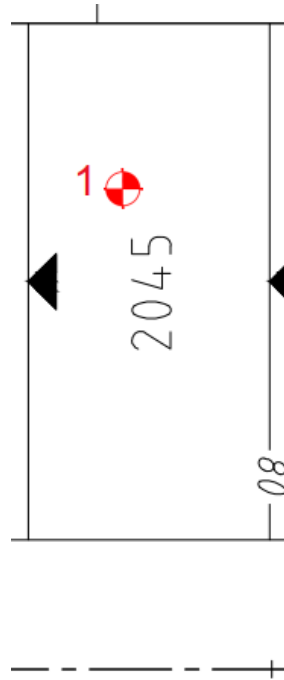
In our opinion all fill on Lot 2044 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2045**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16516)	21.02.19	o/s 5m Rear bdy, o/s 4m Left bdy. R.L.7.03.	102.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

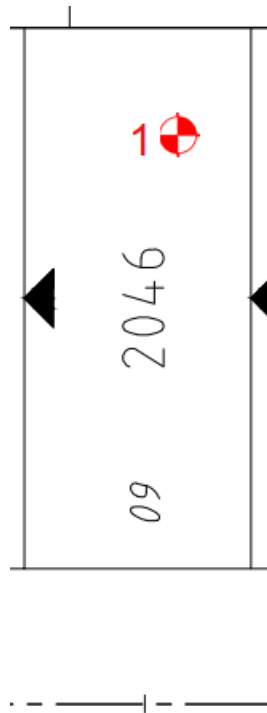
In our opinion all fill on Lot 2045 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2046**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15167)	12.11.18	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.6.86.	98.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

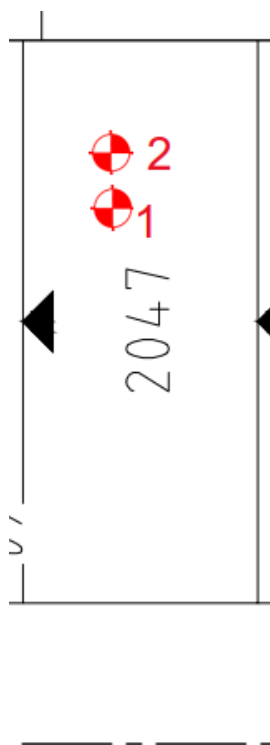
In our opinion all fill on Lot 2046 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2047**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16042)	18.01.19	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.6.69.	101.5
2 (16517)	21.02.19	o/s 5m Rear bdy, o/s 3m Left bdy. R.L.6.75.	101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

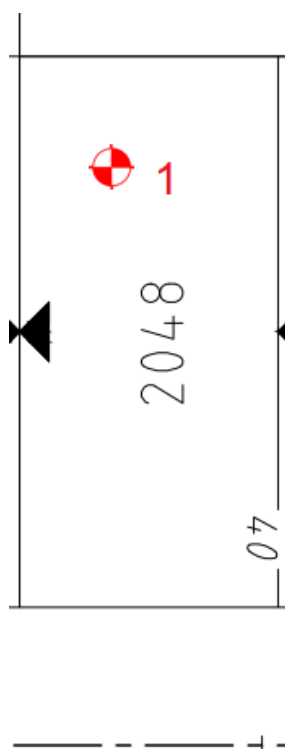
In our opinion all fill on Lot 2047 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2048**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15166)	12.11.18	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.6.52.	97.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

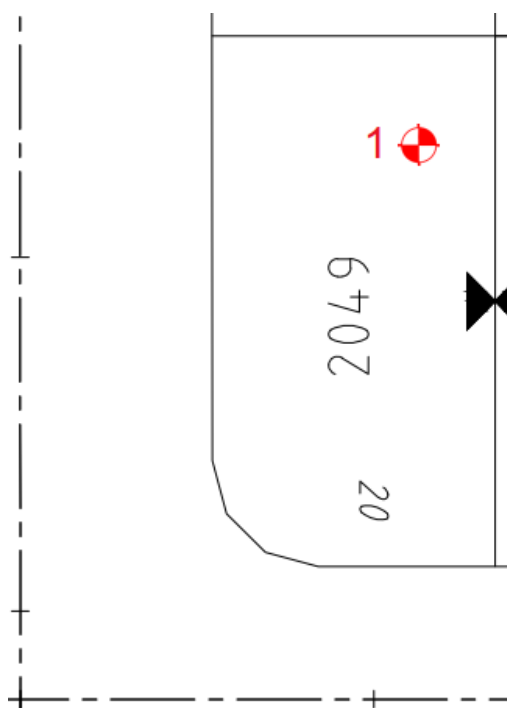
In our opinion all fill on Lot 2048 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2049**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16208)	30.01.19	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.6.47	95.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2049 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



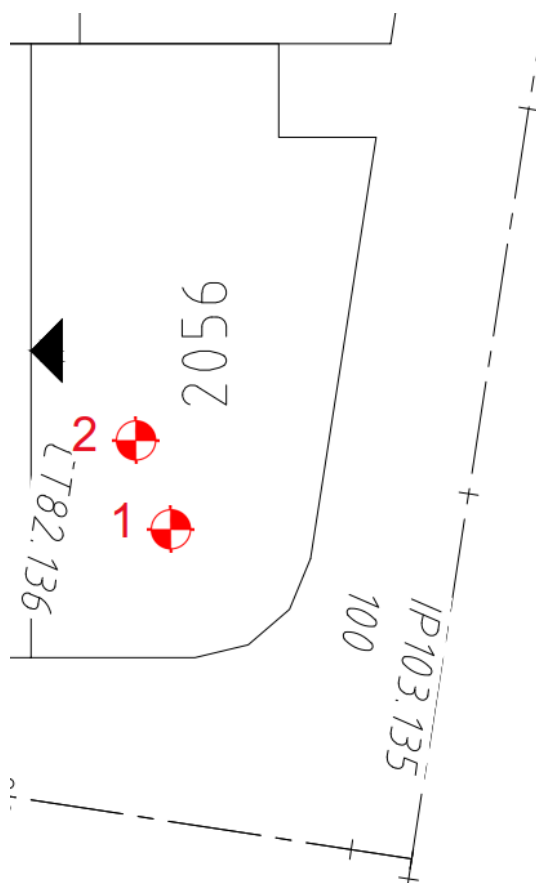
**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536



# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2056



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (15331)	22.11.18	o/s 3m Rear bdy, o/s 6m Right bdy. R.L.8.01.	101.5
2 (15332)	22.11.18	o/s 6m Rear bdy, o/s 3m Left bdy. R.L.8.39.	98.5

In our opinion all fill on Lot 2056 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**

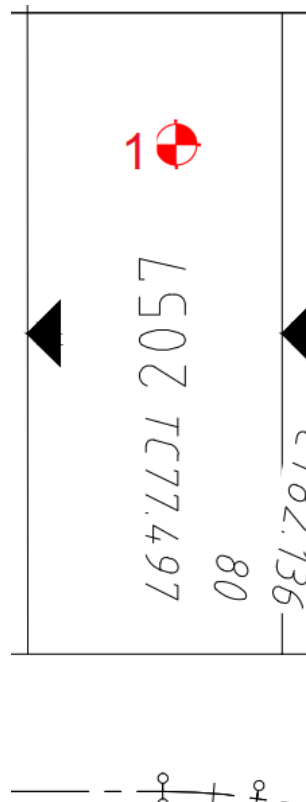


**Brisbane Soil Testing**  
 20/1191 Anzac Ave  
 Kallangur, Q. 4503  
 Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2057



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (15330)	22.11.18	o/s 5m Rear bdy, o/s 3m Right bdy. R.L.8.27.	103.0

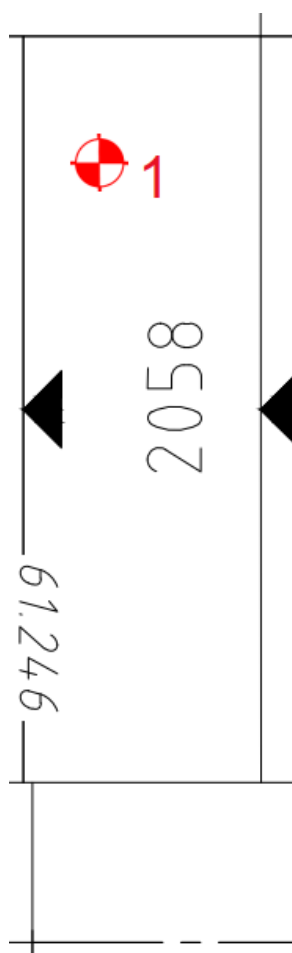
In our opinion all fill on Lot 2057 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2058**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (15329)	22.11.18	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.8.24.	96.5

In our opinion all fill on Lot 2058 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**

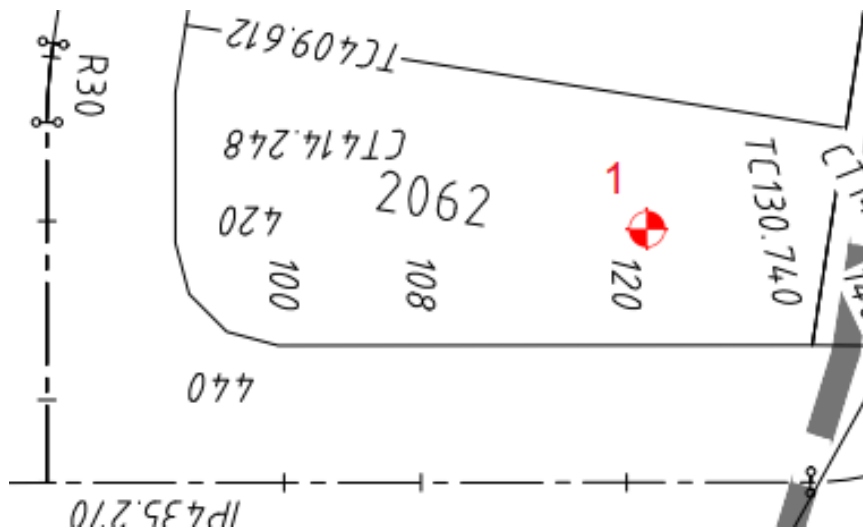


**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2062



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (16201)	30.01.19	o/s 4m Rear bdy, o/s 6m Left bdy. R.L.9.26.	97.5

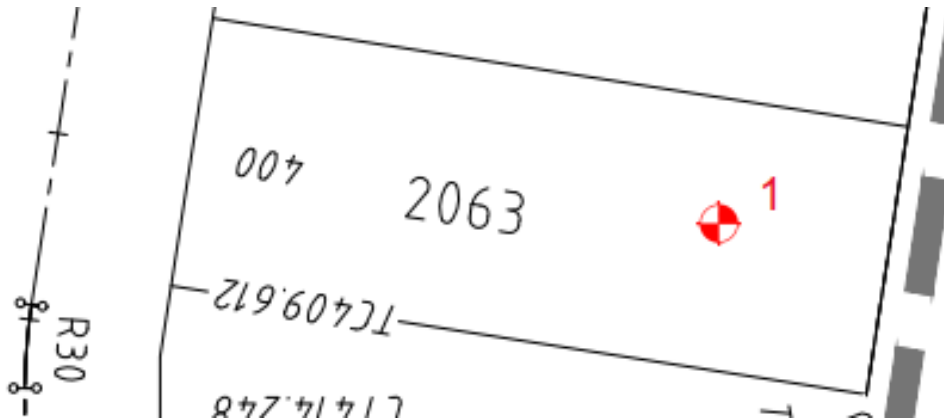
In our opinion all fill on Lot 2062 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2063**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (16202)	30.01.19	o/s 5m Rear bdy, o/s 4m Left bdy. R.L.8.97.	97.5

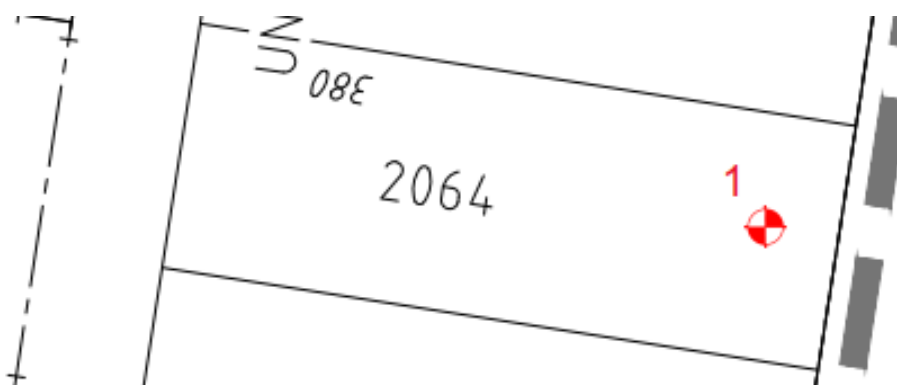
In our opinion all fill on Lot 2063 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2064**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (16203)	30.01.19	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.8.60.	95.5

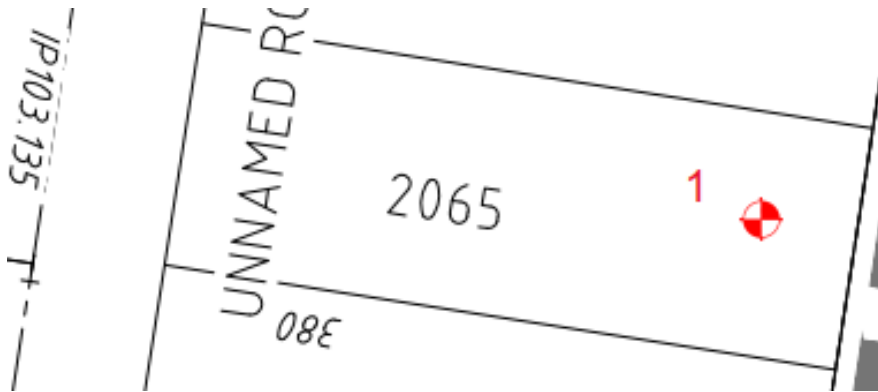
In our opinion all fill on Lot 2064 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2065**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (16204)	30.01.19	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.8.23.	100.0

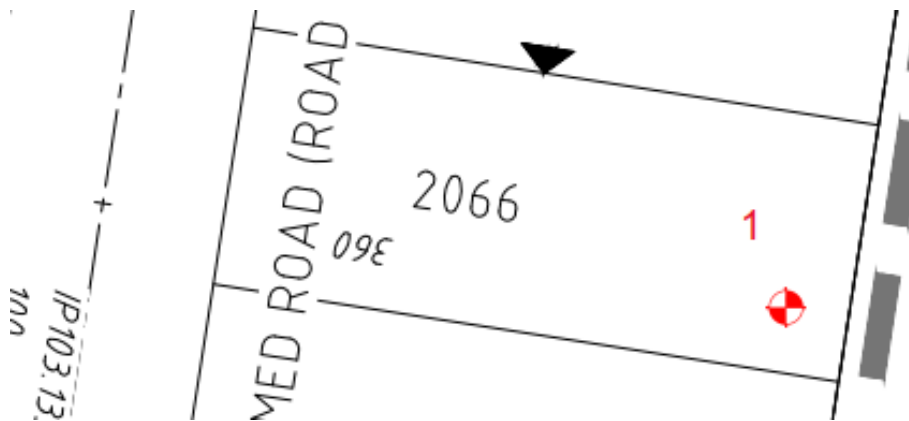
In our opinion all fill on Lot 2065 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2066**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (16205)	30.01.19	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.8.10.	99.0

In our opinion all fill on Lot 2066 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

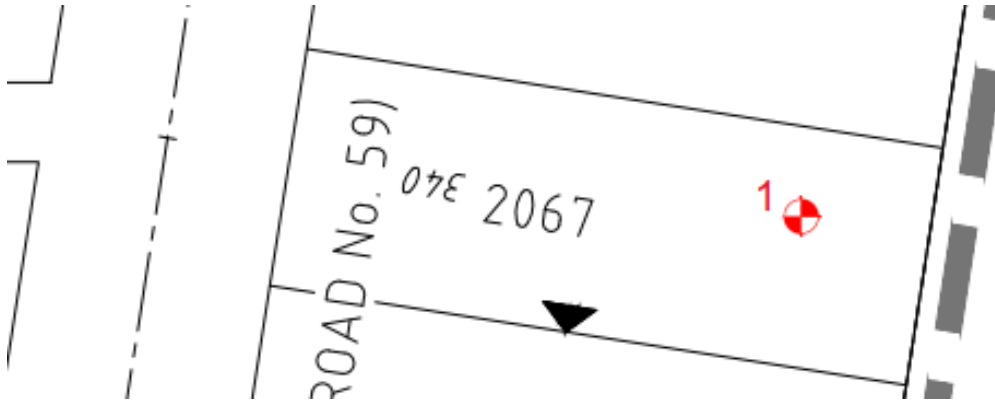
  
.....  
**GREG McGRANN**



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



**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2067**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (16206)	30.01.19	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.7.65.	96.5

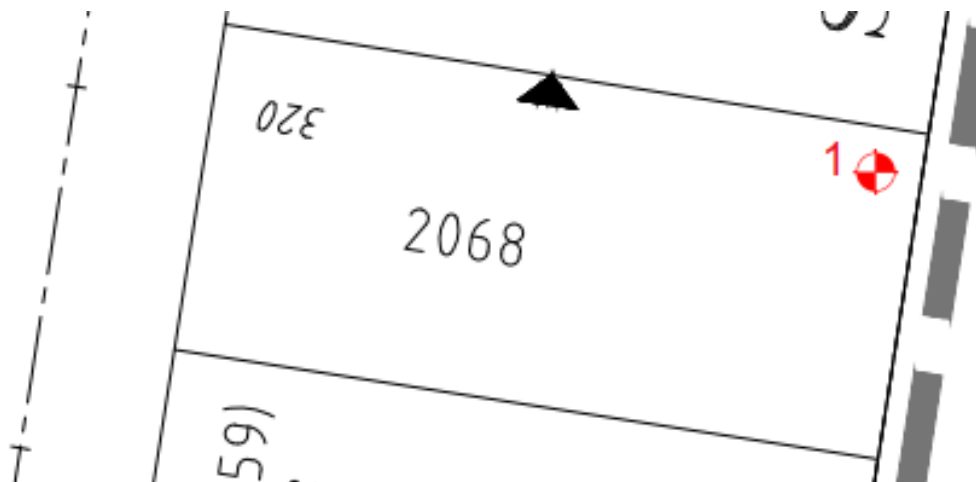
In our opinion all fill on Lot 2067 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – 20B  
LOT 2068**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (16508)	21.02.19	o/s 1m Rear bdy, o/s 1m Left bdy. R.L.7.31.	102.0

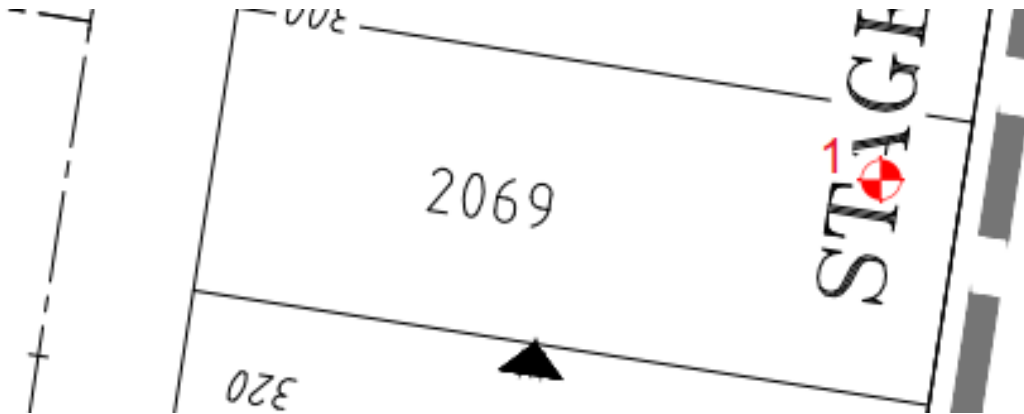
In our opinion all fill on Lot 2068 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2069**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
----------	-------------	---------------	---

**Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)**

1 (16509)	21.02.19	o/s 2m Rear bdy, o/s 2m Left bdy. R.L.7.23.	97.0
-----------	----------	---	------

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

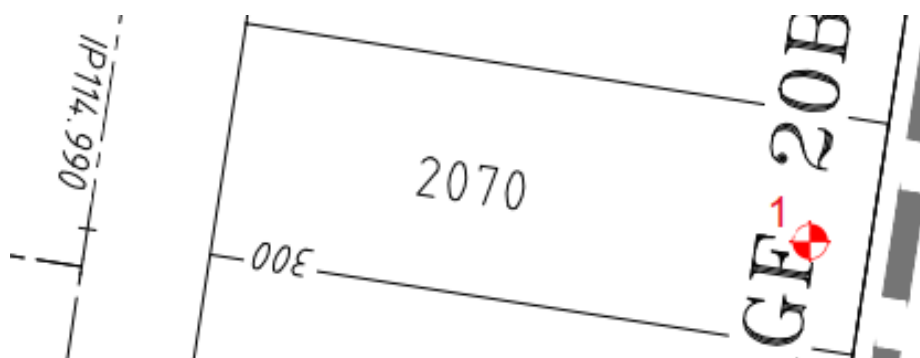
In our opinion all fill on Lot 2069 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2070**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16510)	21.02.19	o/s 2m Rear bdy, o/s 6m Left bdy. R.L.7.18.	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

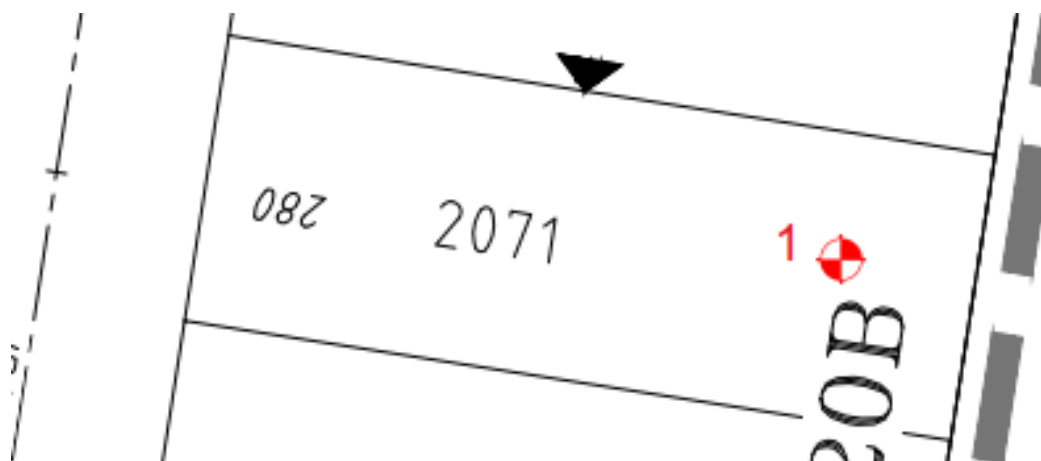
In our opinion all fill on Lot 2070 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2071**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16511)	21.02.19	o/s 3m Rear bdy, o/s 4m Left bdy. R.L.7.10.	98.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

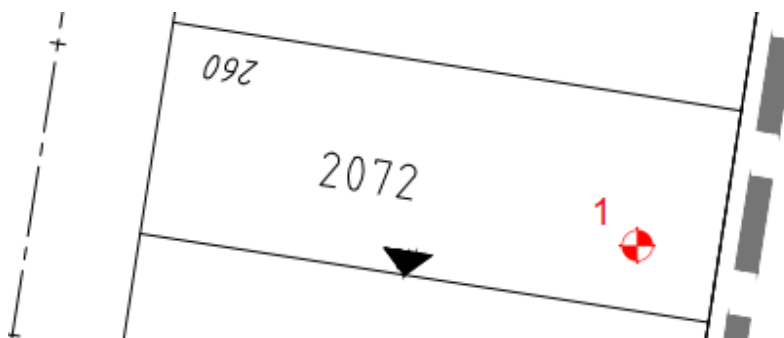
In our opinion all fill on Lot 2071 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2072**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16512)	21.02.19	o/s 3m Rear bdy, o/s 5m Right bdy. R.L.7.01.	99.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

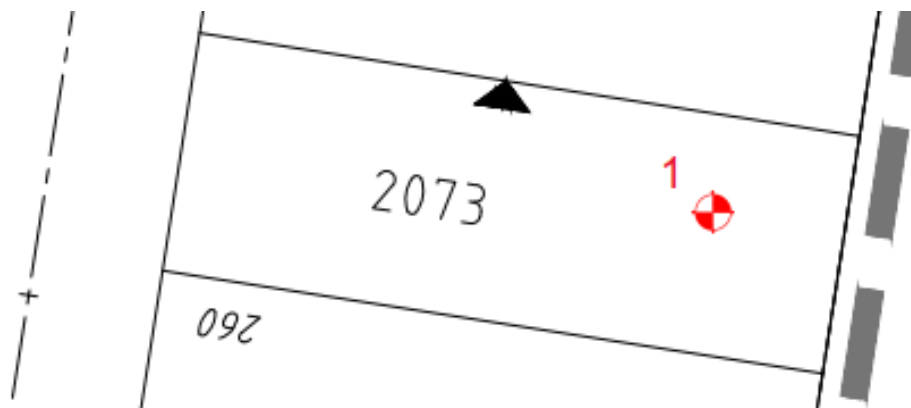
In our opinion all fill on Lot 2072 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2073**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16513)	21.02.19	o/s 4m Rear bdy, o/s 4m Left bdy. R.L.6.88.	101.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

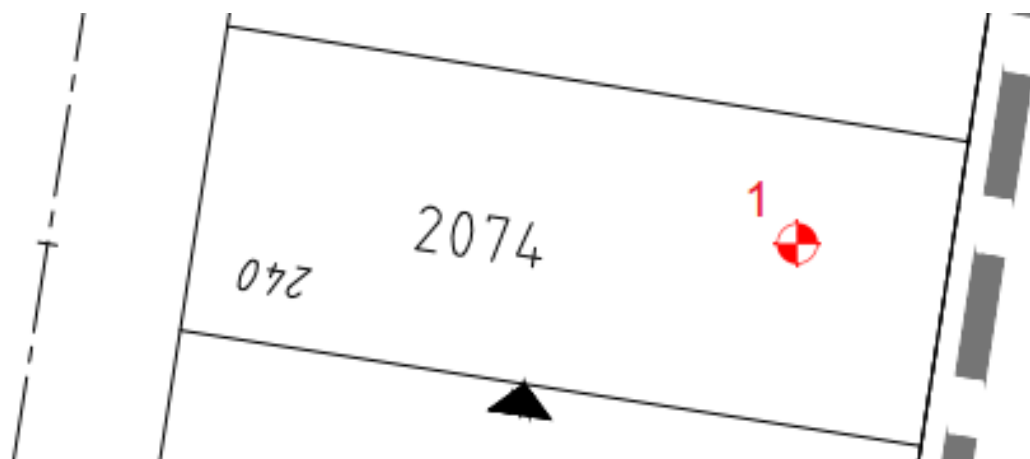
In our opinion all fill on Lot 2073 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2074**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15272)	19.11.18	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.6.63.	100.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2074 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

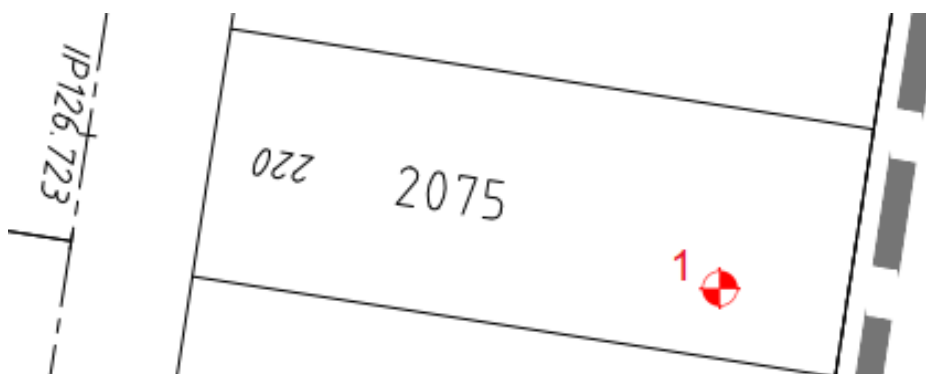
  
.....  
**GREG McGRANN**



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



**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2075**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15273)	19.11.18	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.6.57.	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

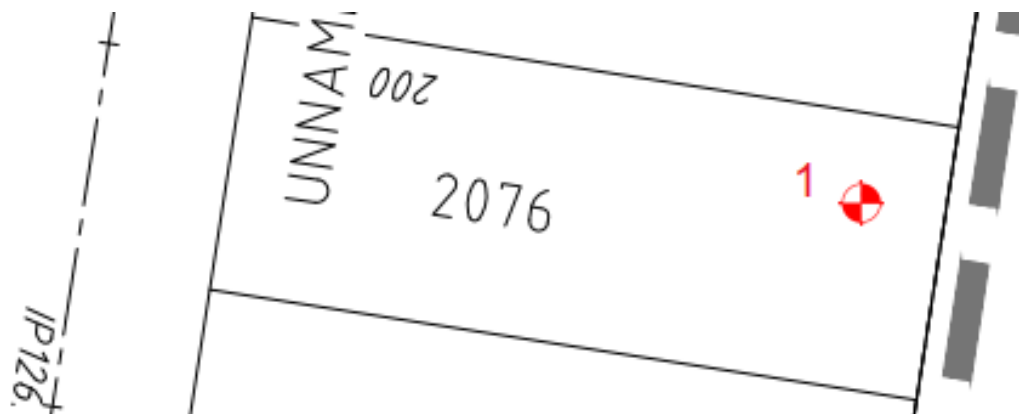
In our opinion all fill on Lot 2075 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2076**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15375)	26.11.18	o/s 2m Rear bdy, o/s 2m Left bdy. R.L.6.45.	96.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

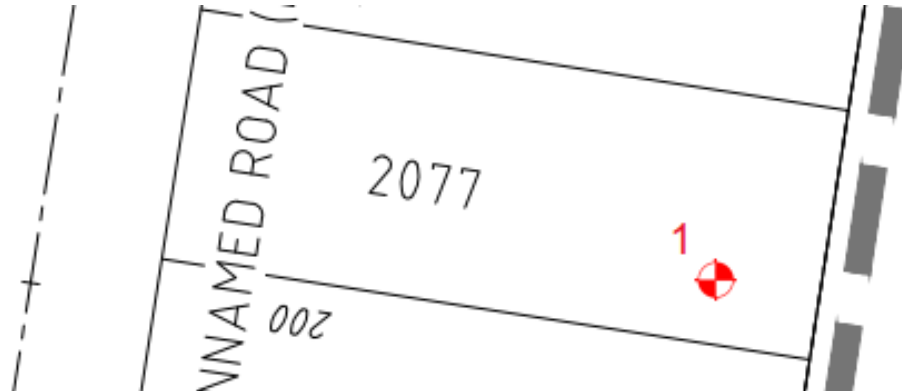
In our opinion all fill on Lot 2076 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2077**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (15374)	26.11.18	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.6.39.	95.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

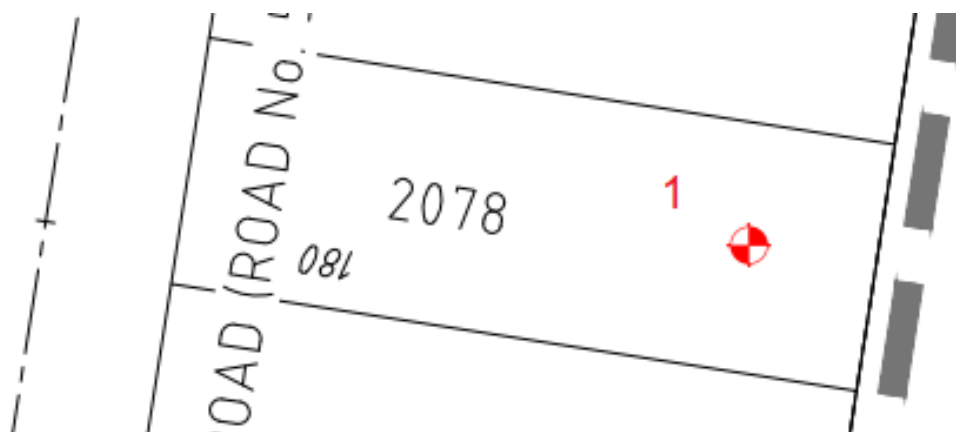
In our opinion all fill on Lot 2077 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2078**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16136)	24.01.19	o/s 4m Rear bdy, o/s 4m Left bdy. R.L.6.22.	101.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

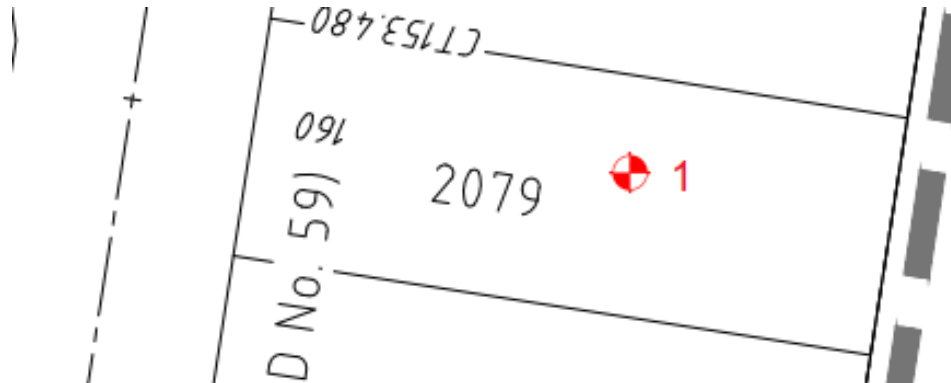
In our opinion all fill on Lot 2078 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2079**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (2079)	24.01.19	o/s 10m Rear bdy, o/s 4m Left bdy. R.L.6.07.	97.0

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2079 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**



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

**EARTHWORKS SUMMARY REPORT  
CAPESTONE ESTATE – STAGE 20B  
LOT 2080**



**Field Density Results**

**Page 1 of 1**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16133)	24.01.19	o/s 9m Rear bdy, o/s 6m Left bdy. R.L.5.91.	101.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2080 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
.....  
**GREG McGRANN**

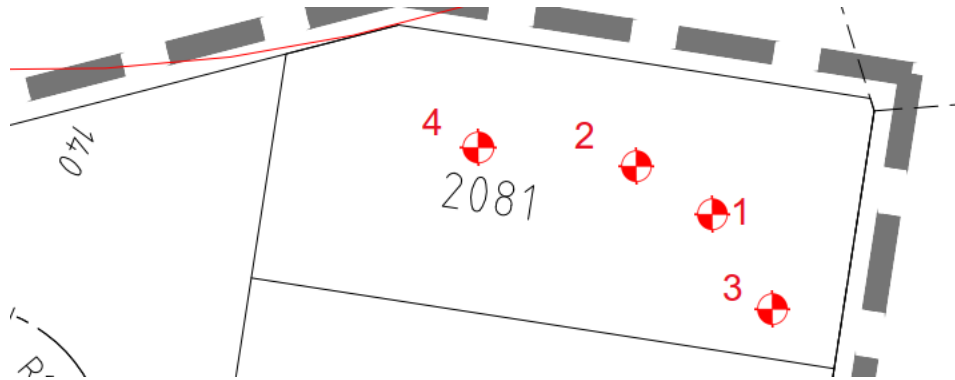


**Brisbane Soil Testing**  
20/1191 Anzac Ave  
Kallangur, Q. 4503  
Ph. (07) 3285 6536

# EARTHWORKS SUMMARY REPORT

## CAPESTONE ESTATE – STAGE 20B

### LOT 2081



#### Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
<b>Bulk Earthworks (Refer Bulk Earthworks Results and Plan No.BST-BEW-ST20B)</b>			
1 (16132)	24.01.19	o/s 7m Rear bdy, o/s 4m Left bdy. R.L.4.19.	97.5
2 (16137)	24.01.19	o/s 9m Rear bdy, o/s 2m Left bdy. R.L.4.62.	95.0
3 (16492)	19.02.19	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.5.06.	97.0
4 (16496)	19.02.19	o/s 7m Front bdy, o/s 4m Left bdy. R.L.5.50	96.5

The deeper fill on this lot was placed during the bulk earthworks phases. Random testing in accordance with AS3798-2007 Table 8.1 Type 1 was carried out across the area which included Future Stage 20B.

In our opinion all fill on Lot 2081 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
 .....  
**GREG McGRANN**



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



# Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur Q 4503

Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	41317
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	27/10/2015	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 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 %
1 98939	9.00	150	LOC ON ATT PLAN R.L.5.81	98939	-	-	10.5	Adj. 13.0	2.5 DRY	81.0	1.89	Adj. 1.93	<b>98.0</b>
Material Description: BROWN SILTY CLAY.													
2 98940	9.00	150	LOC ON ATT PLAN R.L.5.79	98940	-	-	6.0	Adj. 8.5	2.5 DRY	70.5	1.96	Adj. 2.06	<b>95.0</b>
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS.													
3 98941	9.30	150	LOC ON ATT PLAN R.L.5.39	98941	-	-	9.5	Adj. 9.0	0.5 WET	105.5	1.97	Adj. 1.98	<b>99.5</b>
Material Description: DARK BROWN SILTY SANDY CLAY.													
4 98942	9.30	150	LOC ON ATT PLAN R.L.4.85	98942	-	-	16.5	Adj. 17.0	0.5 DRY	97.0	1.77	Adj. 1.79	<b>99.0</b>
Material Description: BROWN SILTY 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: 25.10.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41318
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	2/11/2015	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 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 %
5 99044	10.00	150	LOC ON ATT PLAN R.L.3.82	99044	-	-	14.0	Adj. 13.5	0.5 WET	103.5	1.92	Adj. 1.91	<b>100.5</b>
Material Description: DARK BROWN SILTY SANDY CLAY.													
6 99045	10.00	150	LOC ON ATT PLAN R.L.3.86	99045	-	-	7.5	Adj. 9.0	1.5 DRY	83.5	2.02	Adj. 2.08	<b>97.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY.													
7 99046	10.30	150	LOC ON ATT PLAN R.L.3.49	99046	-	-	10.5	Adj. 10.0	0.5 WET	105.0	2.01	Adj. 2.00	<b>100.5</b>
Material Description: DARK BROWN SILTY SANDY CLAY.													
8 99047	10.30	150	LOC ON ATT PLAN R.L.3.41	99047	-	-	6.0	Adj. 8.0	2.0 DRY	75.0	2.00	Adj. 2.07	<b>96.5</b>
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: 25.10.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41319
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	3/11/2015	Tested by	AC 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 %
9 99077	9.00	150	LOC ON ATT PLAN R.L.4.20	99077	-	-	8.5	Adj. 8.0	0.5 WET	106.0	2.11	Adj. 2.07	<b>102.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY													
10 99078	9.00	150	LOC ON ATT PLAN R.L.4.10	99078	-	-	8.0	Adj. 7.0	1.0 WET	114.5	2.12	Adj. 2.12	<b>100.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY													
11 99079	9.30	150	LOC ON ATT PLAN R.L.4.10	99079	-	-	8.0	Adj. 7.5	0.5 WET	106.5	2.13	Adj. 2.12	<b>100.5</b>
Material Description: DARK BROWN SILTY SANDY CLAY													
12 99080	9.30	150	LOC ON ATT PLAN R.L.3.80	99080	-	-	6.5	Adj. 6.5	-	100.0	2.16	Adj. 2.12	<b>102.5</b>
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: 25.10.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41320
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	4/11/2015	Tested by	AC 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 %
13 99109	9.00	150	LOC ON ATT PLAN R.L.4.00	99109	-	-	9.0	Adj. 8.5	0.5 WET	106.0	2.15	Adj. 2.09	<b>103.0</b>
Material Description: DARK BROWN SANDY CLAY & ROCK FRAGMENTS													
14 99110	9.00	150	LOC ON ATT PLAN R.L.3.50	99110	-	-	8.5	Adj. 9.0	0.5 DRY	94.5	1.91	Adj. 2.00	<b>95.5</b>
Material Description: DARK BROWN SANDY CLAY & ROCK FRAGMENTS													
15 99111	9.30	150	LOC ON ATT PLAN R.L.3.20	99111	-	-	6.0	Adj. 7.5	1.5 DRY	80.0	2.16	Adj. 2.08	<b>104.0</b>
Material Description: DARK BROWN SANDY CLAY & ROCK FRAGMENTS													
16 99112	9.30	150	LOC ON ATT PLAN R.L.3.20	99112	-	-	8.0	Adj. 8.0	-	100.0	2.10	Adj. 2.10	<b>100.0</b>
Material Description: DARK 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

Prepared By: G MCGRANN

Date: 25.10.17

Checked By: R MCGRANN

*RMc*



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41321
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	5/11/2015	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 %
17 99119	9.30	150	LOC ON ATT PLAN R.L.4.00	99119	-	-	11.5	Adj. 10.5	1.0 WET	109.5	1.91	Adj. 1.98	<b>96.5</b>
Material Description: DARK BROWN SILTY SANDY CLAY.													
18 99120	9.30	150	LOC ON ATT PLAN R.L.4.20	99120	-	-	10.5	Adj. 9.5	1.0 WET	110.5	1.97	Adj. 2.01	<b>98.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY.													
19 99121	10.00	150	LOC ON ATT PLAN R.L.4.20	99121	-	-	10.5	Adj. 9.5	1.0 WET	110.5	1.98	Adj. 2.05	<b>96.5</b>
Material Description: DARK BROWN SILTY SANDY CLAY.													
20 99122	10.00	150	LOC ON ATT PLAN R.L.4.00	99122	-	-	13.5	Adj. 10.5	3.0 WET	128.5	1.90	Adj. 1.97	<b>96.5</b>
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:25.10.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date:25.10.17

*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	BULK EARTHWORKS	Report No.	41322
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	10/11/2015	Tested by	AC 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 %
21 99177	9.00	150	LOC ON ATT PLAN R.L.4.10	99177	-	-	9.5	Adj. 9.0	0.5 WET	105.5	2.10	Adj. 2.05	<b>102.5</b>
Material Description: BROWN SANDY CLAY & ROCK FRAGMENTS													
22 99178	9.00	150	LOC ON ATT PLAN R.L.3.80	99178	-	-	14.0	Adj. 13.0	1.0 WET	107.5	1.89	Adj. 1.93	<b>98.0</b>
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS													
23 99179	9.30	150	LOC ON ATT PLAN R.L.3.80	99179	-	-	8.0	Adj. 8.5	0.5 DRY	94.0	2.02	Adj. 2.06	<b>98.0</b>
Material Description: DARK BROWN SANDY GRAVELLY CLAY													
24 99180	9.30	150	LOC ON ATT PLAN R.L.3.60	99180	-	-	17.0	Adj. 16.5	0.5 WET	103.0	1.82	Adj. 1.79	<b>101.5</b>
Material Description: BROWN SILTY 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

Prepared By: G MCGRANN

Date: 25.10.17

Checked By: R MCGRANN

*RMc*



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41323
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	11/11/2015	Tested by	JM LM

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 %
25 99198	9.00	150	LOC ON ATT PLAN R.L.4.70	99198	-	-	15.0	Adj. 16.0	1.0 DRY	93.5	1.95	Adj. 1.87	<b>104.0</b>
Material Description: BROWN SILTY CLAY													
26 99199	9.00	150	LOC ON ATT PLAN R.L.4.50	99199	-	-	6.0	Adj. 8.0	2.0 DRY	75.0	2.14	Adj. 2.09	<b>102.5</b>
Material Description: DARK BROWN SILTY SANDY CLAY													
27 99200	9.30	150	LOC ON ATT PLAN R.L.4.70	99200	-	-	11.5	Adj. 11.0	0.5 WET	104.5	1.88	Adj. 1.98	<b>95.0</b>
Material Description: DARK BROWN SILTY SANDY CLAY													
28 99201	9.30	150	LOC ON ATT PLAN R.L.4.70	99201	-	-	8.5	Adj. 10.5	2.0 DRY	81.0	2.03	Adj. 2.04	<b>99.5</b>
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

Prepared By: G MCGRANN

Date: 25.10.17

Checked By: R MCGRANN

*RMc*



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41324
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	12/11/2015	Tested by	JM LM

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 %
29 99251	9.00	150	LOC ON ATT PLAN R.L.5.60	99251	-	-	14.0	Adj. 15.0	1.0 DRY	93.5	1.78	Adj. 1.85	<b>96.0</b>
Material Description: LIGHT BROWN SILTY CLAY & ROCK FRAGMENTS													
30 99252	9.00	150	LOC ON ATT PLAN R.L.5.60	99252	-	-	9.0	Adj. 9.0	-	100.0	2.05	Adj. 2.05	<b>100.0</b>
Material Description: DARK BROWN SANDY CLAY & ROCK FRAGMENTS													
31 99253	9.30	150	LOC ON ATT PLAN R.L.5.10	99253	-	-	7.5	Adj. 8.0	0.5 DRY	94.0	1.97	Adj. 2.05	<b>96.0</b>
Material Description: DARK BROWN SANDY CLAY & ROCK FRAGMENTS													
32 99254	9.30	150	LOC ON ATT PLAN R.L.4.70	99254	-	-	7.5	Adj. 8.5	1.0 DRY	88.0	1.98	Adj. 2.05	<b>96.5</b>
Material Description: DARK 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: 25.10.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41325
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	13/11/2015	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 %
33 99288	9.00	150	LOC ON ATT PLAN R.L.4.74	99288	-	-	15.0	Adj. 14.5	0.5 DRY	103.5	1.91	Adj. 1.87	<b>102.0</b>
Material Description: BROWN SILTY SANDY CLAY													
34 99289	9.30	150	LOC ON ATT PLAN R.L.5.07	99289	-	-	12.0	Adj. 12.0	-	100.0	1.89	Adj. 1.98	<b>95.5</b>
Material Description: DARK BROWN SANDY CLAY													
35 99290	10.00	150	LOC ON ATT PLAN R.L.5.60	99290	-	-	7.5	Adj. 8.5	1.0 DRY	88.0	2.00	Adj. 2.06	<b>97.0</b>
Material Description: BROWN SANDY GRAVELLY CLAY													
36 99291	10.30	150	LOC ON ATT PLAN R.L.5.40	99291	-	-	14.5	Adj. 15.0	0.5 DRY	96.5	1.85	Adj. 1.86	<b>99.5</b>
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: 25.10.17



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41326
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	17/11/2015	Tested by	AC 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 %
37 99320	8.00	150	LOC ON ATT PLAN R.L.4.00	99320	-	-	18.0	Adj. 17.5	0.5 WET	103.0	1.78	Adj. 1.81	<b>98.5</b>
Material Description: LIGHT GREY-BROWN SILTY CLAY													
38 99321	8.00	150	LOC ON ATT PLAN R.L.4.10	99321	-	-	17.0	Adj. 16.5	0.5 WET	103.0	1.82	Adj. 1.80	<b>101.0</b>
Material Description: BROWN SILTY CLAY													
39 99322	8.30	150	LOC ON ATT PLAN R.L.4.20	99322	-	-	16.5	Adj. 15.5	1.0 WET	106.5	1.74	Adj. 1.76	<b>99.0</b>
Material Description: LIGHT GREY-BROWN SILTY CLAY													
40 99323	8.30	150	LOC ON ATT PLAN R.L.4.10	99323	-	-	14.5	Adj. 14.0	0.5 WET	103.5	1.85	Adj. 1.88	<b>98.5</b>
Material Description: 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

Prepared By: G MCGRANN

Date: 25.10.17

Checked By: R MCGRANN

*RMc*



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41328
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	19/11/2015	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 %
41 99367	9.00	150	LOC ON ATT PLAN R.L.6.10	99367	-	-	15.5	Adj. 17.5	2.0 DRY	88.5	1.74	Adj. 1.77	<b>98.5</b>
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS													
42 99368	9.30	150	LOC ON ATT PLAN R.L.5.90	99368	-	-	14.5	Adj. 13.5	1.0 WET	107.5	1.84	Adj. 1.89	<b>97.5</b>
Material Description: LIGHT BROWN SANDY CLAY													
43 99369	10.00	150	LOC ON ATT PLAN R.L.6.60	99369	-	-	14.5	Adj. 15.0	0.5 DRY	96.5	1.81	Adj. 1.85	<b>98.0</b>
Material Description: LIGHT BROWN SANDY CLAY													
44 99370	10.30	150	LOC ON ATT PLAN R.L.6.40	99370	-	-	13.0	Adj. 14.0	1.0 DRY	93.0	1.81	Adj. 1.86	<b>97.5</b>
Material Description: YELLOW-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

Prepared By: G MCGRANN

Date: 25.10.17

Checked By: R MCGRANN

*RMc*



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*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	BULK EARTHWORKS	Report No.	41329
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20	Date Tested	20/11/2015	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 %
45 99387	9.00	150	LOC ON ATT PLAN R.L.5.40	99387	-	-	17.5	Adj. 16.5	1.0 WET	106.0	1.73	Adj. 1.78	<b>97.0</b>
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS													
46 99388	9.30	150	LOC ON ATT PLAN R.L.5.30	99388	-	-	15.0	Adj. 17.0	2.0 DRY	88.0	1.80	Adj. 1.78	<b>101.0</b>
Material Description: BROWN SILTY CLAY & ROCK FRAGMENTS													
47 99389	10.00	150	LOC ON ATT PLAN R.L.5.40	99389	-	-	23.0	Adj. 23.5	0.5 DRY	98.0	1.61	Adj. 1.64	<b>98.0</b>
Material Description: REDDISH-GREY CLAY													
48 99390	10.30	150	LOC ON ATT PLAN R.L.5.30	99390	-	-	13.0	Adj. 14.0	1.0 DRY	93.0	1.81	Adj. 1.86	<b>97.5</b>
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

Prepared By: G MCGRANN

Date: 25.10.17

Checked By: R MCGRANN

*RMc*



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email: brissoil@bigpond.net.au

## HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42845
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	12/11/2018	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15166	11.30	150	LOT 2048 5m Rear bdy, 2m Left bdy R.L.6.52	15166	-	-	13.5	Adj. 13.5	-	2.10	Adj. 2.15	<b>97.5</b>
Material Description: BROWN SILTY SANDY CLAY												
15167	12.40	150	LOT 2046 4m Rear bdy, 2m Right bdy R.L.6.86	15167	-	-	14.0	Adj. 15.0	1.0 DRY	2.07	Adj. 2.11	<b>98.0</b>
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 21/11/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 21/11/2018

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42911
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	14/11/2018	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15188	10.15	150	LOT 2020 9m Front bdy, 4m Right bdy R.L.3.21	15188	-	-	15.5	Adj. 16.5	1.0 DRY	1.94	Adj. 2.03	<b>95.5</b>
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 03/12/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date: 03/12/2018

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42913
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	15/11/2018	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15216	10.00	150	LOT 2035 5m Rear bdy, 2m Left bdy R.L.4.53	15216	-	-	12.5	Adj. 12.0	0.5 WET	2.16	Adj. 2.13	<b>101.5</b>
Material Description: BROWN SANDY CLAY & ROCK FRAGMENTS												
15217	10.15	150	LOT 2020 6m Front bdy, 3m Left bdy R.L.3.66	15217	-	-	13.0	Adj. 14.5	1.5 DRY	1.95	Adj. 2.01	<b>97.0</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 03/12/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 03/12/2018

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42915
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	16/11/2018	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15260	10.25	150	LOT 2020 7m Rear bdy, 1m Right bdy R.L.4.23	15260	-	-	11.5	Adj. 13.0	1.5 DRY	2.13	Adj. 2.15	<b>99.0</b>
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 03/12/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date: 03/12/2018

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42916
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	19/11/2018	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15270	8.00	150	LOT 2014 7m Rear bdy, 2m Right bdy R.L.6.21	15270	-	-	16.0	Adj. 17.0	1.0 DRY	2.00	Adj. 2.03	<b>98.5</b>
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS												
15271	8.45	150	LOT 2013 9m Rear bdy, 3m Left bdy R.L.6.10	15271	-	-	15.0	Adj. 14.0	1.0 WET	2.04	Adj. 2.10	<b>97.0</b>
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY												
15272	11.15	150	LOT 2074 4m Rear bdy, 3m Left bdy R.L.6.63	15272	-	-	14.5	Adj. 16.5	2.0 DRY	2.08	Adj. 2.07	<b>100.5</b>
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
15273	11.50	150	LOT 2075 4m Rear bdy, 2m Right bdy R.L.6.57	15273	-	-	14.5	Adj. 15.0	0.5 DRY	2.02	Adj. 2.09	<b>96.5</b>
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 03/12/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 03/12/2018

*Greg McGrann*





# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALOTMENT FILL	Report No.	42919
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	20/11/2018	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15303	10.20	150	LOT 2035 10m Rear bdy, 1m Left bdy R.L.5.28	15303	-	-	15.0	Adj. 13.0	2.0 WET	2.26	Adj. 2.20	<b>102.5</b>
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 03/12/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date: 03/12/2018

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email: brissoil@bigpond.net.au

## HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42923
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	22/11/2018	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15329	8.00	150	LOT 2058 3m Rear bdy, 3m Left bdy R.L.8.24	15329	-	-	12.0	Adj. 10.5	1.5 WET	2.17	Adj. 2.25	<b>96.5</b>
Material Description: BROWN SANDY GRAVELLY CLAY												
15330	8.30	150	LOT 2057 5m Rear bdy, 3m Right bdy R.L.8.27	15330	-	-	9.5	Adj. 9.5	-	2.35	Adj. 2.28	<b>103.0</b>
Material Description: LIGHT REDDISH-BROWN SANDY GRAVELLY CLAY												
15331	9.00	150	LOT 2056 3m Rear bdy, 6m Right bdy R.L.8.01	15331	-	-	11.0	Adj. 10.0	1.0 WET	2.28	Adj. 2.25	<b>101.5</b>
Material Description: BROWN SANDY GRAVELLY CLAY												
15332	9.30	150	LOT 2056 6m Rear bdy, 3m Left bdy R.L.8.39	15332	-	-	9.5	Adj. 11.0	1.5 DRY	2.20	Adj. 2.23	<b>98.5</b>
Material Description: BROWN SANDY GRAVELLY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 06/12/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 06/12/2018Y

*Greg McGrann*



# Brisbane Soil Testing

20/1191 Anzac Ave  
Kallangur Q 4503  
Ph.(07) 3285 6536

Email: brissoil@bigpond.net.au

## HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	42924
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	26/11/2018	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15373	9.30	150	LOT 2012 9m Rear bdy, 3m Left bdy R.L.6.04	15373	-	-	15.0	Adj. 16.0	1.0 DRY	2.06	Adj. 2.09	<b>98.5</b>
Material Description: REDDISH-BROWN SILTY CLAY												
15374	10.10	150	LOT 2077 3m Rear bdy, 2m Right bdy R.L.6.39	15374	-	-	15.5	Adj. 15.0	0.5 WET	2.01	Adj. 2.11	<b>95.5</b>
Material Description: REDDISH-BROWN SILTY CLAY												
15375	10.35	150	LOT 2076 2m Rear bdy, 2m Left bdy R.L.6.45	15375	-	-	15.5	Adj. 17.5	2.0 DRY	1.98	Adj. 2.06	<b>96.0</b>
Material Description: LIGHT REDDISH-BROWN SILTY CLAY												
15376	12.20	150	LOT 2028 4m Rear bdy, 3m Left bdy R.L.6.26	15376	-	-	13.0	Adj. 14.5	1.5 DRY	2.10	Adj. 2.13	<b>98.5</b>
Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY												
15377	13.10	150	LOT 2029 5m Rear bdy, 2m Right bdy R.L.6.41	15377	-	-	13.5	Adj. 14.5	1.0 DRY	2.05	Adj. 2.11	<b>97.0</b>
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS												
15378	13.45	150	LOT 2030 4m Rear bdy, 3m Left bdy R.L.6.44	15378	-	-	15.5	Adj. 15.0	0.5 WET	2.02	Adj. 2.09	<b>96.5</b>
Material Description: LIGHT REDDISH-BROWN & GREY SILTY SANDY CLAY												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 06/12/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 06/12/2018

*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.	43218
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	14/01/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15944	7.45	150	LOT 2011 12m Rear bdy, 3m Left bdy R.L.5.90	15944	-	-	14.5	Adj. 14.0	0.5 WET	2.05	Adj. 2.11	<b>97.0</b>
Material Description: YELLOW-BROWN SILTY SANDY CLAY												
15945	8.30	150	LOT 2010 10m Front bdy, 2m Right bdy R.L.5.81	15945	-	-	14.0	Adj. 15.0	1.0 DRY	2.13	Adj. 2.08	<b>96.5</b>
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
15946	9.15	150	LOT 2008 8m Front bdy, 3m Left bdy R.L.5.73	15946	-	-	14.5	Adj. 14.5	-	2.03	Adj. 2.09	<b>97.0</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 18/02/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 18/02/2019

*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.	43221
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	15/01/2019	Tested by	GMG 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 Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
15957	6.30	150	LOT 2017 6m Front bdy, 3m Left bdy R.L.5.91	15957	-	-	14.0	Adj. 15.0	1.0 DRY	2.01	Adj. 2.11	<b>95.5</b>
Material Description: REDDISH-BROWN SILTY SANDY CLAY.												
15958	6.30	150	LOT 2016 7m Front bdy, 3m Right bdy R.L.5.98	15958	-	-	14.0	Adj. 16.5	2.5 DRY	1.97	Adj. 2.06	<b>95.5</b>
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY.												
15959	7.00	150	LOT 2015 10m Front bdy, 2m Left bdy R.L.5.85	15959	-	-	13.5	Adj. 14.0	0.5 DRY	2.04	Adj. 2.12	<b>96.0</b>
Material Description: YELLOW-BROWN SILTY SANDY CLAY.												
15960	11.45	150	LOT 2015 5m Front bdy, 2m Right bdy R.L.6.34	15960	-	-	13.0	Adj. 15.5	2.5 DRY	2.06	Adj. 2.11	<b>97.5</b>
Material Description: BROWN SILTY SANDY CLAY.												
15961	11.50	150	LOT 2016 5m Rear bdy, 3m Left bdy R.L.6.43	15961	-	-	13.5	Adj. 14.5	1.0 DRY	1.92	Adj. 2.09	<b>92.0</b>
Material Description: BROWN SILTY SANDY CLAY.												
15962	12.30	150	LOT 2017 12m Front bdy, 2m Right bdy R.L.6.30	15962	-	-	14.0	Adj. 16.0	2.0 DRY	1.98	Adj. 2.05	<b>96.5</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY.												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 25/02/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 25/02/2019

*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.	43228
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	18/01/2019	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 Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16040	7.15	150	LOT 2009 8m Front bdy, 3m Left bdy R.L.5.62	16040	-	-	14.0	Adj. 14.0	-	2.15	Adj. 2.15	100.0
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY												
16041	7.45	150	LOT 2037 11m Rear bdy, 2m Right bdy R.L.6.22	16041	-	-	13.0	Adj. 12.5	0.5 WET	2.13	Adj. 2.13	100.0
Material Description: BROWN SANDY CLAY & FINE ROCK FRAGMENTS												
16042	8.15	150	LOT 2047 7m Rear bdy, 3m Left bdy R.L.6.69	16042	-	-	13.5	Adj. 14.0	0.5 DRY	2.12	Adj. 2.09	101.5
Material Description: LIGTH GREY-BROWN SILTY SANDY CLAY												
16043	8.45	150	LOT 2031 15m Front bdy, 4m Right bdy R.L.6.53	16043	-	-	12.0	Adj. 11.5	0.5 WET	2.14	Adj. 2.17	98.5
Material Description: BROWN SANDY CLAY & FINE ROCK FRAGMENTS												
16044	9.15	150	LOT 2032 13m Front bdy, 5m Left bdy R.L.6.48	16044	-	-	18.0	Adj. 17.0	1.0 WET	2.02	Adj. 2.05	98.5
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS												
16045	9.45	150	LOT 2033 15m Front bdy, 4m Left bdy R.L.6.33	16045	-	-	16.0	Adj. 16.5	0.5 DRY	2.02	Adj. 2.10	96.0
Material Description: LIGHT BROWN SILTY CLAY												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 25/02/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 25/02/2019



# 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.	43229
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	18/01/2019	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  Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16046	7.15	130	LOT 2022 10m Front bdy, 2m Right bdy R.L.5.80	16046	-	-	20.0	Adj. 19.0	1.0 WET	1.96	Adj. 2.04	96.0
				Material Description: GREY-BROWN SILTY CLAY								
16047	7.45	150	LOT 2023 13m Front bdy, 4m Left bdy R.L.5.91	16047	-	-	17.0	Adj. 18.5	1.5 DRY	1.98	Adj. 2.03	97.5
				Material Description: LIGHT REDDISH-BROWN SILTY CLAY								
16048	8.15	150	LOT 2024 12m Rear bdy, 3m Left bdy R.L.6.10	16048	-	-	15.5	Adj. 14.5	1.0 WET	2.15	Adj. 2.09	103.0
				Material Description: BROWN SILTY SANDY CLAY								
16049	8.45	150	LOT 2025 14m Front bdy, 4m Right bdy R.L.6.04	16049	-	-	14.5	Adj. 14.0	0.5 WET	2.16	Adj. 2.11	102.5
				Material Description: BROWN SILTY SANDY CLAY								
16050	9.15	150	LOT 2026 15m Front bdy, 3m Left bdy R.L.5.93	16050	-	-	12.5	Adj. 12.5	-	2.20	Adj. 2.16	102.0
				Material Description: BROWN SILTY SANDY CLAY								
16051	9.45	150	LOT 2027 13m Rear bdy, 4m Right bdy R.L.5.91	16051	-	-	11.5	Adj. 12.0	0.5 DRY	2.15	Adj. 2.17	99.0
				Material Description: BROWN SILTY SANDY CLAY								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 25/02/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 25/02/2019





# 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.	43236
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	24/01/2019	Tested by	AC 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 Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16132	7.15	150	LOT 2081 7m Rear bdy, 4m Left bdy R.L.4.19	16132	-	-	13.5	Adj. 14.0	0.5 DRY	2.06	Adj. 2.11	<b>97.5</b>
Material Description: LIGHT YELLOW-BROWN SILTY SANDY CLAY.												
16133	7.30	150	LOT 2080 9m Rear bdy, 6m Left bdy R.L.5.91	16133	-	-	13.5	Adj. 13.0	0.5 WET	2.17	Adj. 2.14	<b>101.5</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.												
16134	7.45	150	LOT 2079 10m Rear bdy, 4m Left bdy R.L.6.07	16134	-	-	10.5	Adj. 13.0	2.5 DRY	2.07	Adj. 2.13	<b>97.0</b>
Material Description: BROWN SILTY SANDY CLAY.												
16136	9.15	150	LOT 2078 4m Rear bdy, 4m Left bdy R.L.6.22	16136	-	-	16.0	Adj. 16.0	-	2.11	Adj. 2.08	<b>101.5</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY.												
16137	10.20	150	LOT 2081 9m Rear bdy, 2m Left bdy R.L.4.62	16137	-	-	8.0	Adj. 9.0	1.0 DRY	2.06	Adj. 2.17	<b>95.0</b>
Material Description: BROWN SILTY SAND & FINE ROCK FRAGMENTS.												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date:18/02/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date:18/02/2019

*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.	43241
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	25/01/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16152	7.15	150	LOT 2038 10m Front bdy, 4m Right bdy R.L.6.40	16152	-	-	19.5	Adj. 17.5	2.0 WET	2.08	Adj. 2.07	<b>100.5</b>
Material Description: LIGHT REDDISH-BROWN SILTY CLAY												
16153	7.15	150	LOT 2039 10m Front bdy, 3m Right bdy R.L.6.50	16153	-	-	14.5	Adj. 16.5	2.0 DRY	2.00	Adj. 2.08	<b>96.0</b>
Material Description: REDDISH-BROWN SILTY SANDY CLAY												
16154	7.45	150	LOT 2040 10m Front bdy, 2m Right bdy R.L.6.51	16154	-	-	11.5	Adj. 14.0	2.5 DRY	2.00	Adj. 2.10	<b>95.0</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY												
16155	7.45	150	LOT 2042 10m Front bdy, 3m Right bdy R.L.6.49	16155	-	-	13.0	Adj. 12.0	1.0 WET	2.12	Adj. 2.16	<b>98.0</b>
Material Description: LIGHT BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 18/02/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 18/02/2019



# 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.	43244
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	30/01/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16201	8.00	150	LOT 2062 4m Rear bdy, 6m Left bdy R.L.9.26	16201	-	-	13.0	Adj. 13.0	-	2.06	Adj. 2.11	97.5
				Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS								
16202	8.30	150	LOT 2063 5m Rear bdy, 4m Left bdy R.L.8.97	16202	-	-	13.0	Adj. 13.5	0.5 DRY	2.08	Adj. 2.13	97.5
				Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY								
16203	9.00	150	LOT 2064 3m Rear bdy, 2m Left bdy R.L.8.60	16203	-	-	9.0	Adj. 11.5	2.5 DRY	2.02	Adj. 2.12	95.5
				Material Description: BROWN SANDY CLAY & FINE ROCK FRAGMENTS								
16204	10.30	150	LOT 2065 3m Rear bdy, 3m Left bdy R.L.8.23	16204	-	-	9.5	Adj. 10.5	1.0 DRY	2.15	Adj. 2.15	100.0
				Material Description: LIGHT YELLOW-BROWN SANDY CLAY & FINE ROCK FRAGMENTS								
16205	11.00	150	LOT 2066 2m Rear bdy, 2m Right bdy R.L.8.10	16205	-	-	11.5	Adj. 11.0	0.5 WET	2.17	Adj. 2.19	99.0
				Material Description: LIGHT YELLOW-BROWN SANDY CLAY & FINE ROCK FRAGMENTS								
16206	11.30	150	LOT 2067 4m Rear bdy, 3m Left bdy R.L.7.65	16206	-	-	9.0	Adj. 11.0	2.0 DRY	2.08	Adj. 2.16	96.5
				Material Description: LIGHT BROWN SANDY CLAY & FINE ROCK FRAGMENTS								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 18/02/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 18/02/2019



# 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.	43245
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	30/01/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16207	13.00	150	LOT 2036 5m Front bdy, 3m Right bdy R.L.5.88	16207	-	-	11.5	Adj. 14.0	2.5 DRY	2.11	Adj. 2.13	99.0
Material Description: BROWN SILTY SANDY CLAY												
16208	13.30	150	LOT 2049 3m Rear bdy, 3m Right bdy R.L.6.47	16208	-	-	11.0	Adj. 13.5	2.5 DRY	2.04	Adj. 2.14	95.5
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 18/02/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 18/02/2019



# 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.	43379
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	19/02/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16492	8.10	150	LOT 2081 4m Rear bdy, 2m Right bdy R.L.5.06	16492	-	-	12.0	Adj. 13.0	1.0 DRY	2.05	Adj. 2.11	97.0
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY												
16493	8.50	150	LOT 2020 4m Rear bdy, 3m Right bdy R.L.4.98	16493	-	-	13.5	Adj. 13.5	-	2.10	Adj. 2.13	98.5
Material Description: BROWN SILTY SANDY CLAY												
16494	9.40	150	LOT 2021 8m Front bdy, 2m Right bdy R.L.5.24	16494	-	-	9.5	Adj. 11.5	2.0 DRY	2.08	Adj. 2.18	95.5
Material Description: LIGHT BROWN SANDY CLAY & FINE ROCK FRAGMENTS												
16495	10.15	150	LOT 2034 5m Rear bdy, 2m Left bdy R.L.5.37	16495	-	-	14.5	Adj. 14.0	0.5 WET	2.01	Adj. 2.07	97.0
Material Description: BROWN SILTY SANDY CLAY												
16496	10.45	150	LOT 2081 7m Front bdy, 4m Left bdy R.L.5.50	16496	-	-	13.5	Adj. 13.0	0.5 WET	2.06	Adj. 2.14	96.5
Material Description: BROWN SILTY SANDY CLAY												
16497 RETEST	11.20	150	LOT 2016 7m Rear bdy, 3m Left bdy R.L.6.40	16497	-	-	13.0	Adj. 14.0	1.0 DRY	2.04	Adj. 2.10	97.0
Material Description: BROWN SILTY SANDY CLAY												

Remarks: Test 16497 is a retest for test 15961.

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 13/03/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 13/03/2019



# 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.	43380
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	21/02/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16508	7.30	150	LOT 2068 1m Rear bdy, 1m Left bdy R.L.7.31	16508	-	-	11.5	Adj. 14.5	3.0 DRY	2.12	Adj. 2.08	102.0
				Material Description: DARK REDDISH-BROWN SILTY SANDY CLAY								
16509	8.00	150	LOT 2069 2m Rear bdy, 2m Left bdy R.L.7.23	16509	-	-	11.5	Adj. 13.0	1.5 DRY	2.11	Adj. 2.18	97.0
				Material Description: DARK BROWN SILTY SANDY CLAY								
16510	8.30	150	LOT 2070 2m Rear bdy, 6m Left bdy R.L.7.18	16510	-	-	11.0	Adj. 12.5	1.5 DRY	2.11	Adj. 2.19	96.5
				Material Description: DARK BROWN SILTY SANDY CLAY								
16511	9.00	150	LOT 2071 3m Rear bdy, 4m Left bdy R.L.7.10	16511	-	-	14.0	Adj. 13.0	1.0 WET	2.14	Adj. 2.17	98.5
				Material Description: BROWN SILTY SANDY CLAY								
16512	9.30	150	LOT 2072 3m Rear bdy, 5m Right bdy R.L.7.01	16512	-	-	14.0	Adj. 14.0	-	2.08	Adj. 2.09	99.5
				Material Description: BROWN SILTY SANDY CLAY								
16513	10.30	150	LOT 2073 4m Rear bdy, 4m Left bdy R.L.6.88	16513	-	-	15.0	Adj. 16.0	1.0 DRY	2.16	Adj. 2.14	101.0
				Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 13/03/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 13/03/2019



# 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.	43381
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	21/02/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16514	11.00	150	LOT 2043 3m Rear bdy, 6m Right bdy R.L.6.87	16514	-	-	12.5	Adj. 15.5	3.0 DRY	1.89	Adj. 1.99	95.0
				Material Description: BROWN SILTY SANDY CLAY								
16515	11.30	150	LOT 2044 4m Rear bdy, 3m Left bdy R.L.7.03	16515	-	-	11.5	Adj. 12.5	1.0 DRY	2.08	Adj. 2.15	96.5
				Material Description: LIGHT REDDISH-BROWN SANDY CLAY								
16516	12.00	150	LOT 2045 5m Rear bdy, 4m Left bdy R.L.7.03	16516	-	-	13.0	Adj. 15.0	2.0 DRY	2.11	Adj. 2.06	102.5
				Material Description: LIGHT BROWN & WHITE SILTY SANDY CLAY								
16517	12.30	150	LOT 2047 5m Rear bdy, 3m Left bdy R.L.6.75	16517	-	-	14.0	Adj. 14.5	0.5 DRY	2.12	Adj. 2.10	101.0
				Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY								
16518	13.00	150	LOT 2037 3m Front bdy, 4m Left bdy R.L.6.02	16518	-	-	11.5	Adj. 11.5	-	2.14	Adj. 2.19	97.5
				Material Description: BROWN SANDY CLAY & FINE ROCK FRAGMENTS								
16519	13.30	150	LOT 2041 2m Front bdy, 3m Right bdy R.L.6.32	16519	-	-	13.5	Adj. 14.5	1.0 DRY	2.05	Adj. 2.13	96.0
				Material Description: BROWNN SILTY SANDY CLAY								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 13/03/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 13/03/2019



# 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.	43427
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	20/03/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16817	8.00	150	LOT 2034 12m Front bdy, 2m Left bdy R.L.5.80	16817	-	-	13.5	Adj. 15.0	1.5 DRY	2.10	Adj. 2.13	<b>98.5</b>
Material Description: LIGHT YELLOW SILTY SANDY CLAY												
16818	8.30	150	LOT 2021 7m Rear bdy, 3m Rear bdy R.L.5.75	16818	-	-	13.0	Adj. 14.5	1.5 DRY	2.11	Adj. 2.17	<b>97.0</b>
Material Description: LIGHT REDDISH-BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 21/03/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 21/03/2019





# 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.	43498
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	02/04/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16894	11.30	150	LOT 2035 11m Front bdy, 4m Left bdy R.L.5.72	16894	-	-	14.5	Adj. 15.0	0.5 DRY	2.15	Adj. 2.24	<b>96.0</b>
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date:11/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: R MCGRANN

*RMc*

Greg McGrann/Manager

Approved Signatory

Date:11/04/2019

*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.	43502
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20B	Date Tested	10/04/2019	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 Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
16966	7.45	150	LOT 2020 9m Front bdy, 6m Right bdy R.L.5.70	16966	-	-	11.5	Adj. 12.5	1.0 DRY	2.14	Adj. 2.15	<b>99.5</b>
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	
								Adj.			Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date:15/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

*RMc*

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date:15/04/2019

*Greg McGrann*