



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

8 August 2019

BMD Constructions Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Glen Fuller

RE: CAPESTONE ESTATE – STAGE 18A (LEVEL 1 REPORT)
(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 18A, 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 18A. This phase of the earthworks filling in **Fill Zone 5** was completed on the 20 November 2015.

An inspection of a large area known as **Fill Zone 8** which included the Future Stage 18A was carried out on 14 September 2018. This area was proof rolled with a loaded water truck and approval for filling given. **Fill Zone 8** is shown on the attached plan No.BST-BEW-FZ8. This phase of the earthworks filling in **Fill Zone 8** was completed on the 5 November 2018. Bulk earthworks re-commenced in Stage 18A on 11 February 2019, over the previously controlled fill in **Fill Zone 5** and **Fill Zone 8**. This phase of the earthworks filling was completed on 25 February 2019.

During these bulk earthwork phases, Brisbane Soil Testing supervised and controlled the filling and testing were carried out as per Table 8.1 of AS3798-2007 (Type 1, large scale operations).

In March 2019, 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).

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

The locations of all tests carried out during these phases of earthworks, are shown on the attached plans nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003, CG004 REV 0 and the attached earthworks summary reports.

One hundred and sixty-eight field density tests were carried during all phases, which were between 27 October 2015 and 1 August 2019. These tests recorded Dry density Ratios between 95.0% and 104.0% relative to the standard compaction test, and field moisture contents with -3.0% and +3.0% of their respective optimum moisture contents.

Attached document B37/11, B194/0, B194/1 and B194/2 (Report Nos. 41317-41326, 41328, 41329, 42541, 42611, 42795, 43503-43509, 43539-43545, 43551, 43560, 43561, 43581, 43621, 43622, 43624, 43738, 43739, 43744, 43745, 43759, 43760, 43880, 43881, 43882, 43933, 43934, 43974 and 43976) provide full test data for the compaction control tests.

No fill was placed on Lots 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956 and 1957 during our inspection and testing commission between 27 October 2015 and 1 August 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.

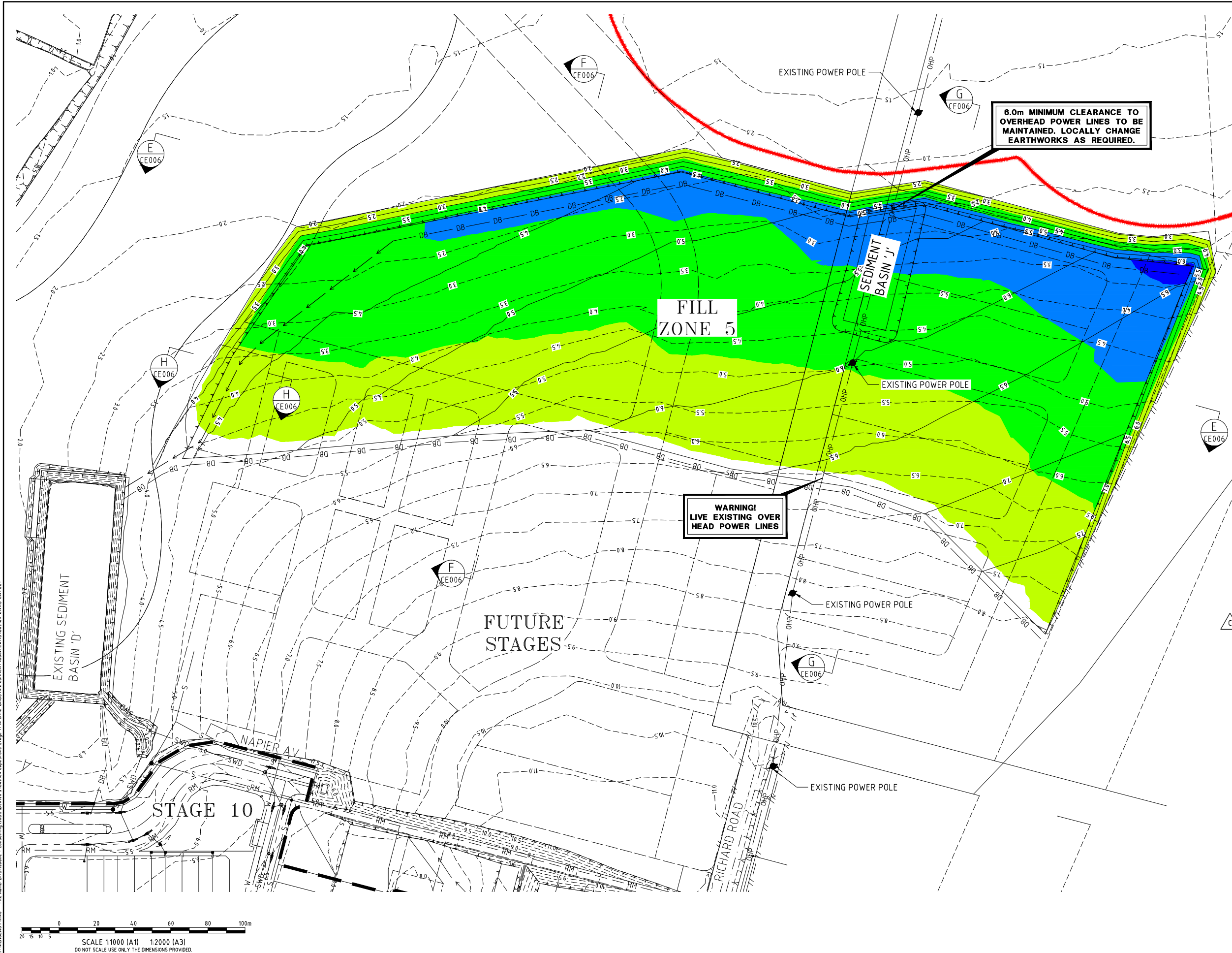


GREG McGRANN



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

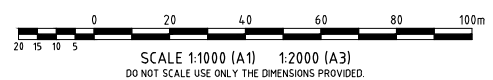
- CUT/FILL LEGEND**
- CUT: 4m +
 - CUT: 3 to 4m
 - CUT: 2 to 3m
 - CUT: 1 to 2m
 - CUT: -0.1 to 1m
 - 0.1 to 0.1m
 - FILL: 0.1 to 1m
 - FILL: 1 to 2m
 - FILL: 2 to 3m



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): 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.



Plot Date: 4/12/2015 8:04:39 AM User: NICHOLAS PRINS File Name: B:\Brisbane - Consulting\B00184-EWKS\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

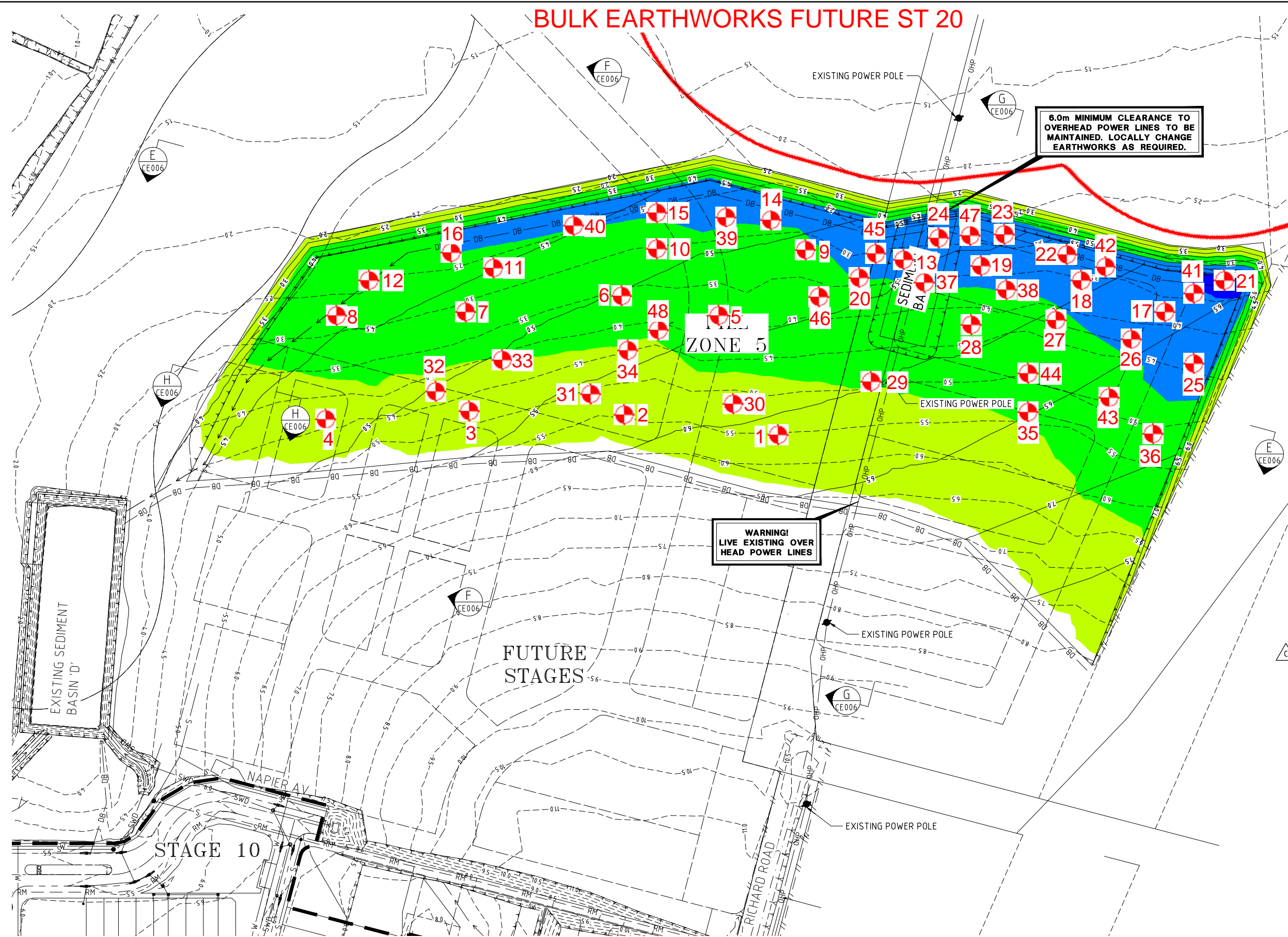
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- CIVIL ENGINEERS
 - STRUCTURAL ENGINEERS
 - PROJECT MANAGERS
- ABN 29 010 749 002

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

NOT FOR CONSTRUCTION



- LEGEND**
- STAGE BOUNDARY
 - CHENOWETH COMBINED CONSTRAINTS
 - EXISTING SURFACE CONTOURS (0.5m INTERVALS)
 - DESIGN SURFACE CONTOURS (0.5m INTERVALS)
 - DB DIVERSION BUND
 - DIVERSION DRAIN
 - SWD EXISTING STORMWATER DRAINAGE
 - RM EXISTING SEWER RISING MAIN
 - S EXISTING SEWER GRAVITY MAIN
 - OHP EXISTING OVER HEAD POWER LINES
 - W 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:-
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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

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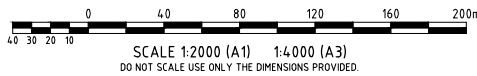
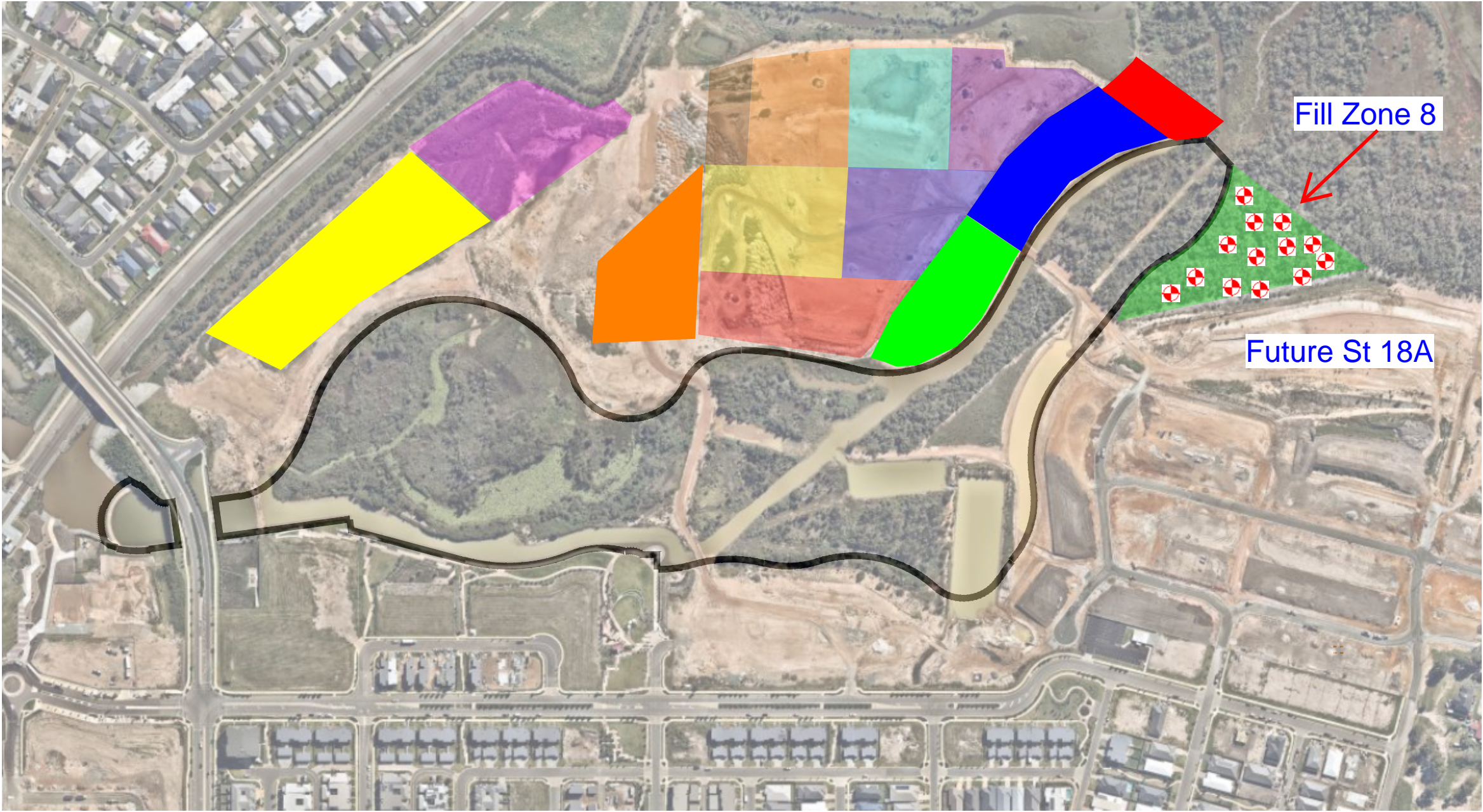
• CIVIL ENGINEERS
• STRUCTURAL ENGINEERS
• PROJECT MANAGERS
ABN 29 010 749 082

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

Fill Zone 8 Test Locations

LEGEND

- Lake Edge
- Fill Zone 1 (7,550m2)
- Fill Zone 2 (8,294m2)
- Fill Zone 3 (7,705m2)
- Fill Zone 4 (7,534m2)
- Fill Zone 5 (8,682m2)
- Fill Zone 6 (7,500m2)
- Fill Zone 7 (7,463m2)
- Fill Zone 8 (10,495m2)
- Fill Zone 9 - STAGE 18B
- Fill Zone 10 (2,800m2)
- Fill Zone Basin 3 (7,320m2)
- Fill Zone Basin 4 (8,351m2)
- Fill Zone 11 (8,769m2)
- Fill Zone 12 (15,349m2)
- Fill Zone 13 (3,158m2)



No.	Amendments	Drawn/Design	Appd	Registered Engineer	Reg No.	Date
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PLAN No BST-BEW-FZ8



Allotment Fill Test Locations - 11-02-19 to 01-08-19

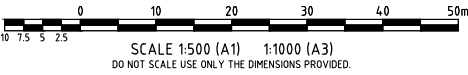
- LEGEND
- STAGE BOUNDARY
 - "ZERO LOT" BOUNDARY
 - "ATTACHED LOT" BOUNDARY

CONSERVATION ZONE

LAKE

STAGE 18A

STAGE 20B



JOINS TO DWG No. B00196-CG004

0	FOR CONSTRUCTION ISSUE	NP	NP	DH	DH	26/03/19	Registered Engineer 27/3/2019	5694
B	PLAN AMENDED	NP	NP	DH	DH	11/01/19	Date	Register
A	ORIGINAL ISSUE	JK	JK	DH	DH	26/10/18	ENGINEERING CERTIFICATION	
No.	Amendments	Drawn	Design	Design Chk	Appd	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 Empower Engineers and Project Managers ©COPYRIGHT 2018	

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Empower
ENGINEERS &
PROJECT MANAGERS
ABN 23 010 743 692

Client	URBEX PTY. LTD.	Datum	AHD
Project	CAPESTONE STAGE 18A	PSM	38847
Title	ROAD SETOUT PLAN SHEET 1 OF 2	RL	10.649
		(MGA) COORD	
Project No.	B00196-CG003	Drawing No.	0
Rev			



0 FOR CONSTRUCTION ISSUE		NP	NP	DH	DH	26/03/19	Registered Engineer 27/3/2019	5694
B PLAN AMENDED		NP	NP	DH	DH	11/01/19	Date	Register
A ORIGINAL ISSUE		JK	JK	DH	DH	26/10/18	ENGINEERING CERTIFICATION	
No.	Amendments	Drawn	Design	Design Chk	Appd	Date		

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ENGINEERS & PROJECT MANAGERS

ABN 23 010 743 692

Client

URBEX PTY. LTD.

Project

CAPESTONE STAGE 18A

Title

ROAD SETOUT PLAN
SHEET 2 OF 2

Datum

AHD

PSM 38847

RL 10.649

(MGA) COORD

FOR CONSTRUCTION

Project No.

B00196-CG004

Drawing No.

0

Rev

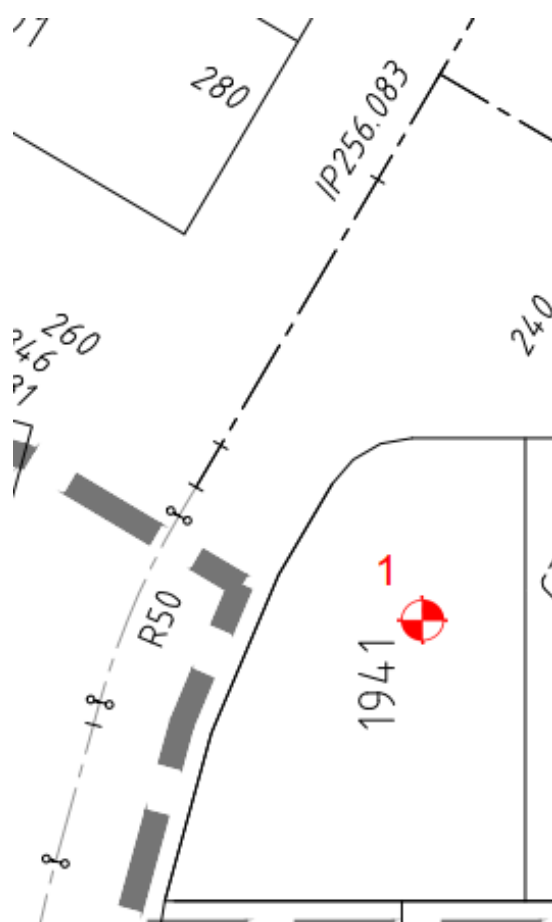
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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1941



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (18063)	22.07.19	o/s 5m Front bdy, o/s 7m Left bdy. R.L.5.20	96.5

In our opinion all fill on Lot 1941 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



GREG McGRANN

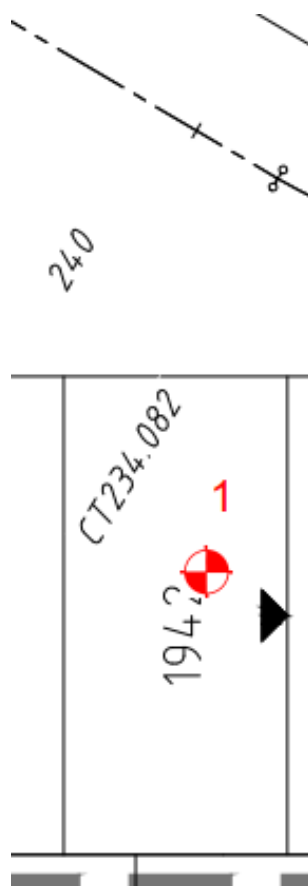


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1942



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (18064)	22.07.19	o/s 6m Front bdy, o/s 4m Left bdy. R.L.5.12	98.0

In our opinion all fill on Lot 1942 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



GREG McGRANN

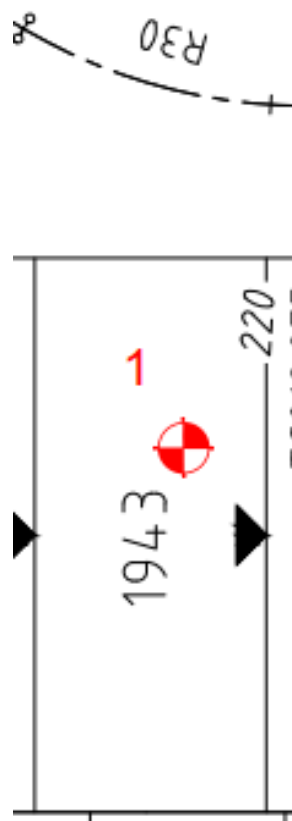


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1943



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (18129)	25.07.19	o/s 5m Front bdy, o/s 3m Left bdy. R.L.5.06	98.5

In our opinion all fill on Lot 1943 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



GREG McGRANN

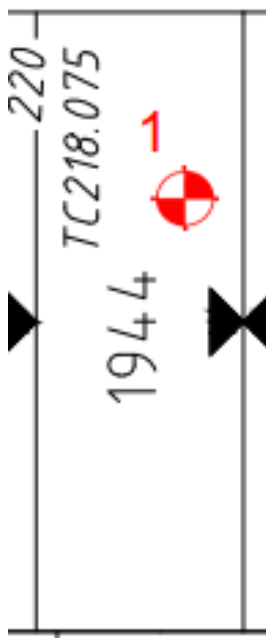
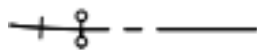


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1944



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (18128)	25.07.19	o/s 3m Front bdy, o/s 4m Left bdy. R.L.5.09	99.5

In our opinion all fill on Lot 1944 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

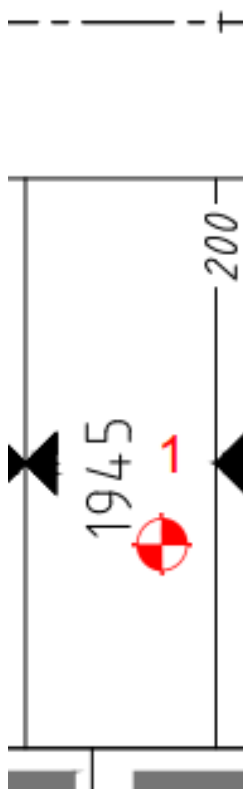


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1945**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (18191)	30.07.19	o/s 13m Rear bdy, o/s 3m Left bdy. R.L.5.14.	97.5

In our opinion all fill on Lot 1945 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN

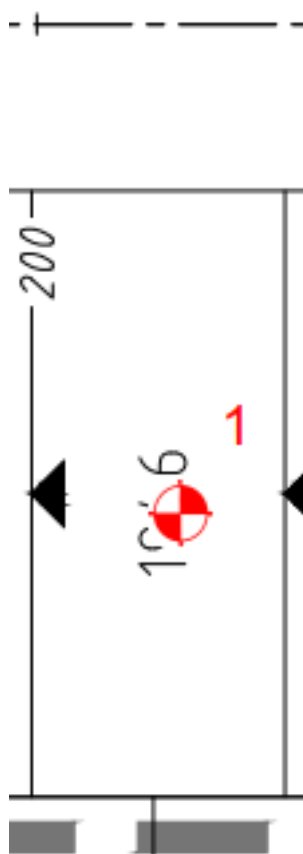


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Kallangur, Q. 4503
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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1946



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (18190)	30.07.19	o/s 15m Rear bdy, o/s 4m Left bdy. R.L.5.18.	100.0

In our opinion all fill on Lot 1946 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



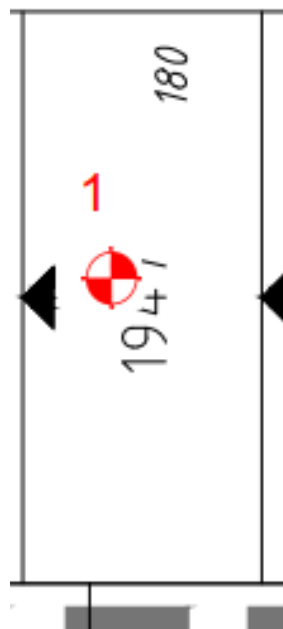
GREG McGRANN



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 Kallangur, Q. 4503
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1947**

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Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (18189)	30.07.19	o/s 18m Rear bdy, o/s 5m Right bdy. R.L.5.22.	97.0

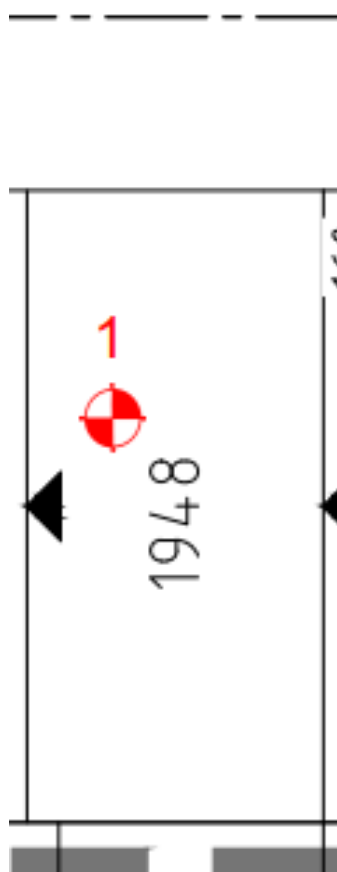
In our opinion all fill on Lot 1947 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1948**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (18227)	01.08.19	o/s 13m Front bdy, o/s 4m Right bdy. R.L.5.31.	99.0

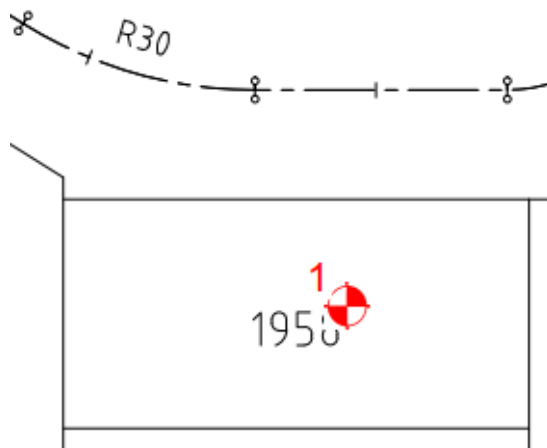
In our opinion all fill on Lot 1948 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
GREG McGRANN



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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1958**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17446)	29.05.19	o/s 4m Front bdy, o/s 8m 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 18A.

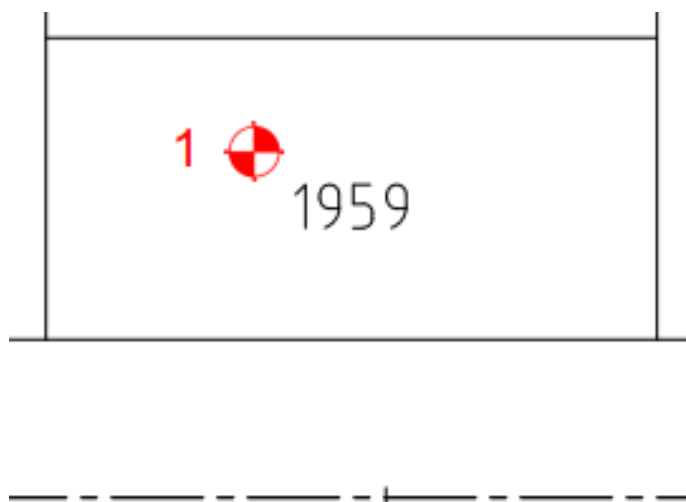
In our opinion all fill on Lot 1958 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1959**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17831)	03.07.19	o/s 3m Rear bdy, o/s 7m Left bdy. R.L.5.78.	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 18A.

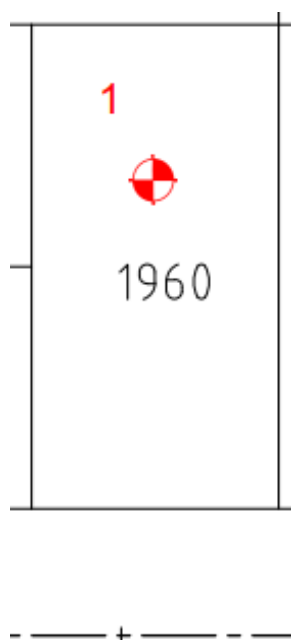
In our opinion all fill on Lot 1959 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1960**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17447)	29.05.19	o/s 8m Rear bdy, o/s 2m Right bdy. R.L.5.75.	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 18A.

In our opinion all fill on Lot 1960 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


.....
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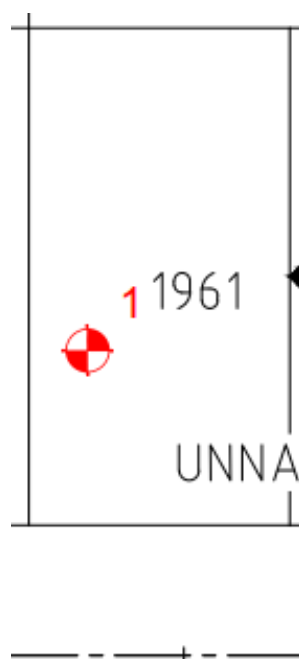


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1961



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17829)	03.07.19	o/s 7m Front bdy, o/s 2m Left bdy. R.L.5.92.	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 18A.

In our opinion all fill on Lot 1961 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

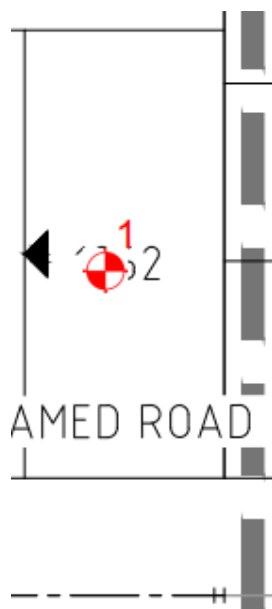


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1962**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17830)	03.07.19	o/s 11m Front bdy, o/s 3m Left bdy. R.L.5.99.	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 18A.

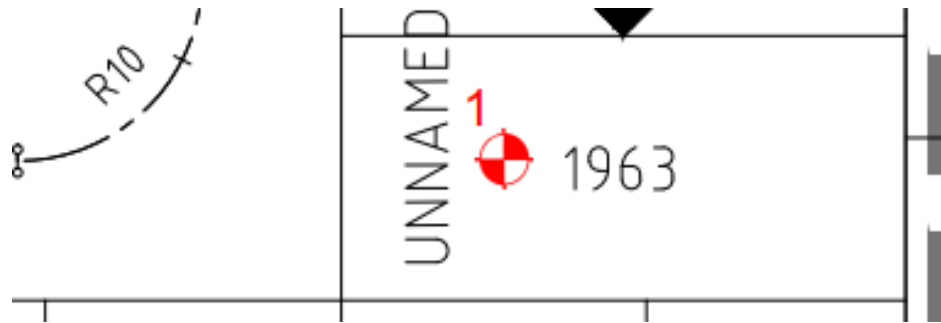
In our opinion all fill on Lot 1962 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1963**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16777)	14.03.19	Location on attached plan. R.L.6.07.	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 18A.

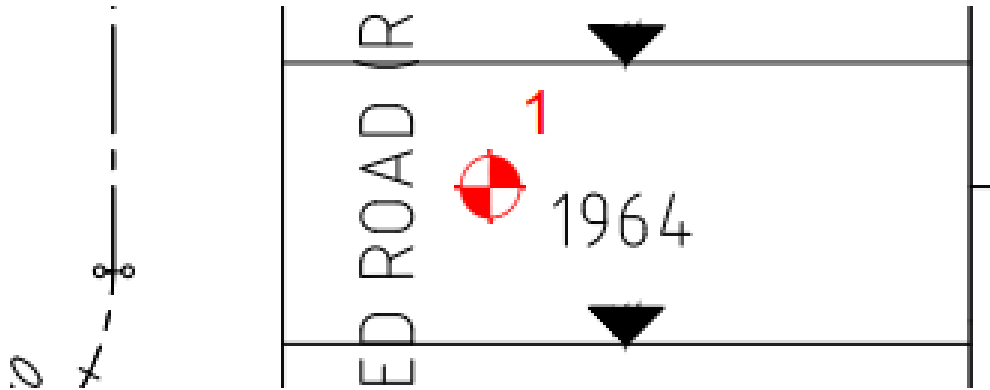
In our opinion all fill on Lot 1963 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1964**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16776)	14.03.19	Location on attached plan. R.L.5.91.	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 18A.

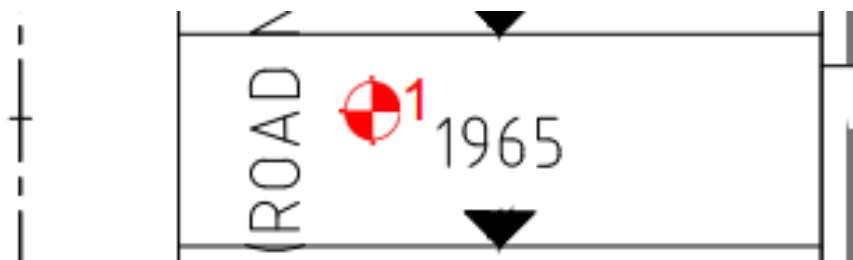
In our opinion all fill on Lot 1964 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1965**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16775)	14.03.19	Location on attached plan. R.L.5.80.	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 18A.

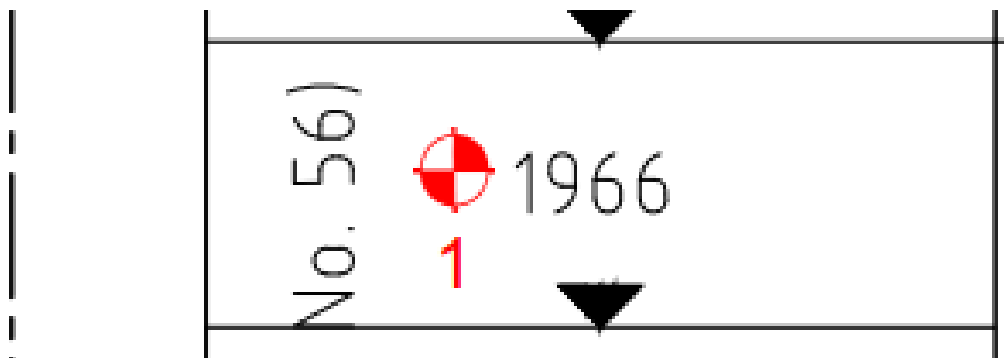
In our opinion all fill on Lot 1965 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1966**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16774)	14.03.19	Location on attached plan. R.L.5.74.	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 18A.

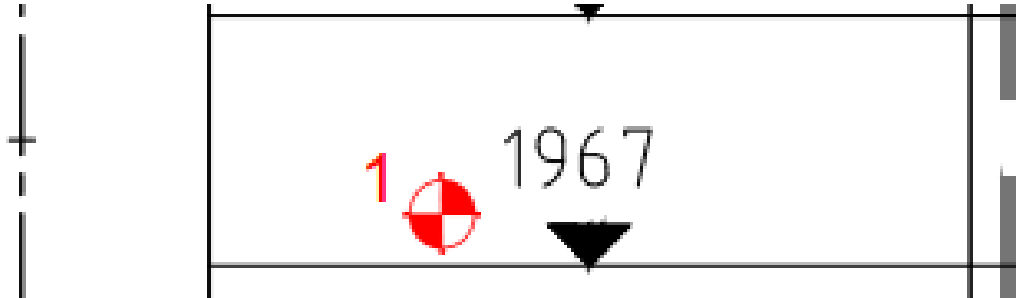
In our opinion all fill on Lot 1966 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1967**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16773)	14.03.19	Location on attached plan. R.L.5.62.	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 18A.

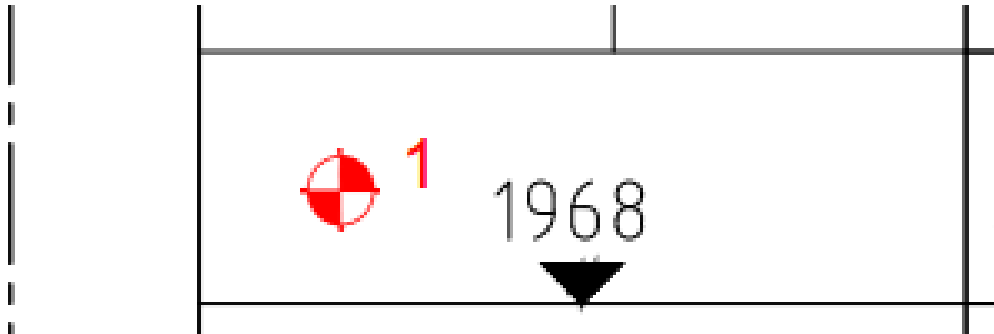
In our opinion all fill on Lot 1967 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1968**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16772)	14.03.19	Location on attached plan. R.L.5.53.	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 18A.

In our opinion all fill on Lot 1968 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1969



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16771)	14.03.19	Location on attached plan. R.L.5.40.	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 18A.

In our opinion all fill on Lot 1969 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



GREG McGRANN

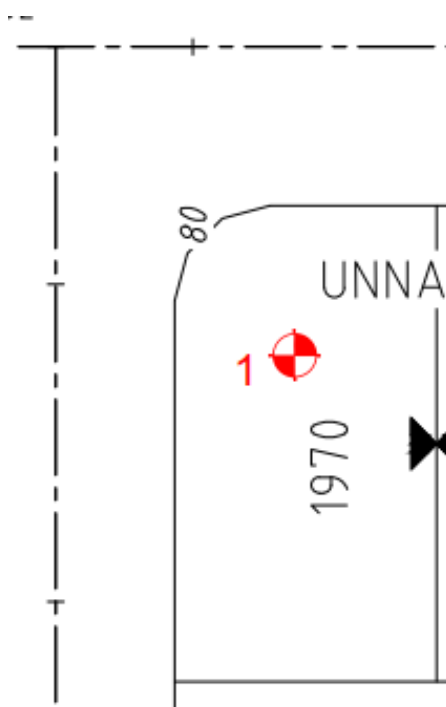


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1970



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16770)	14.03.19	Location on attached plan. R.L.5.21.	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 18A.

In our opinion all fill on Lot 1970 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



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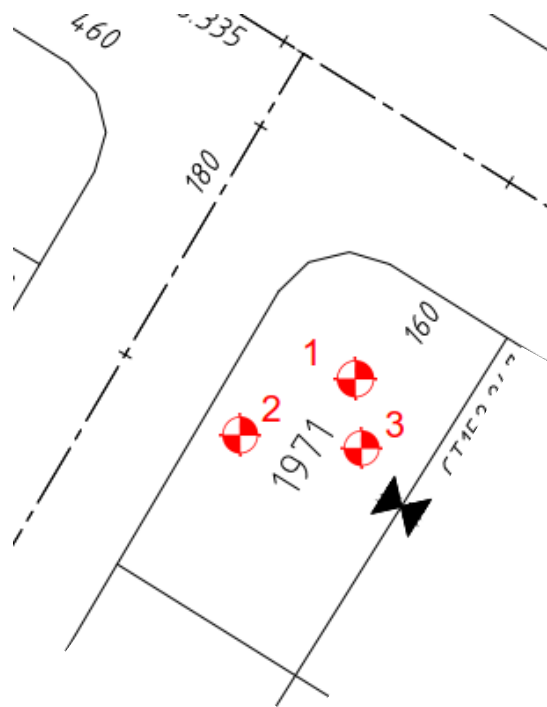


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1971



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16348)	12.02.19	Location on attached plan. R.L.2.93.	96.5
2 (16352)	12.02.19	Location on attached plan. R.L.3.78.	101.5
3 (16738)	12.03.19	Location on attached plan. R.L.5.22.	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 18A.

In our opinion all fill on Lot 1971 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

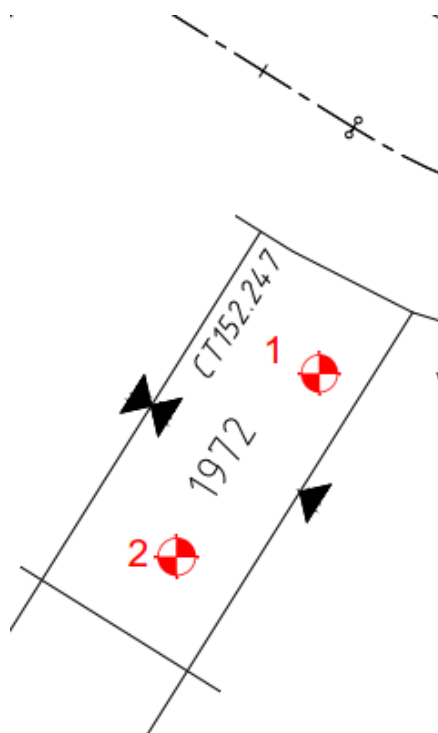


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1972**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16399)	13.02.19	Location on attached plan. R.L.3.72.	99.0
2 (16808)	15.03.19	Location on attached plan. R.L.5.17	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 18A.

In our opinion all fill on Lot 1972 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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GREG McGRANN

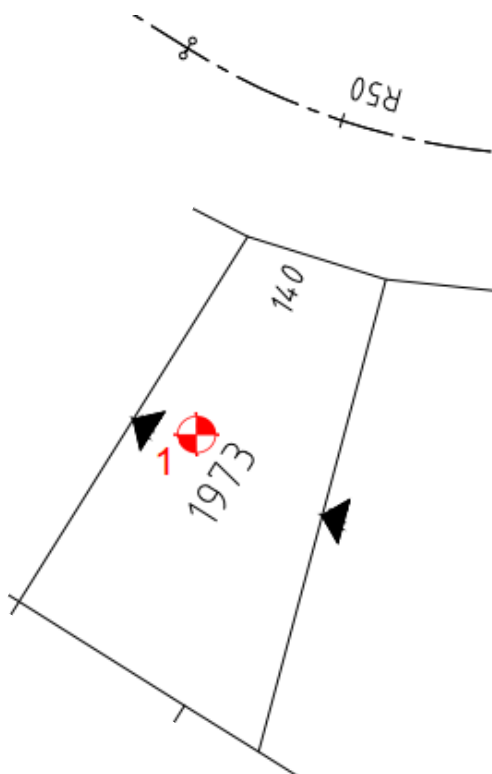


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1973



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16813)	15.03.19	Location on attached plan. R.L.5.18.	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 18A.

In our opinion all fill on Lot 1973 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



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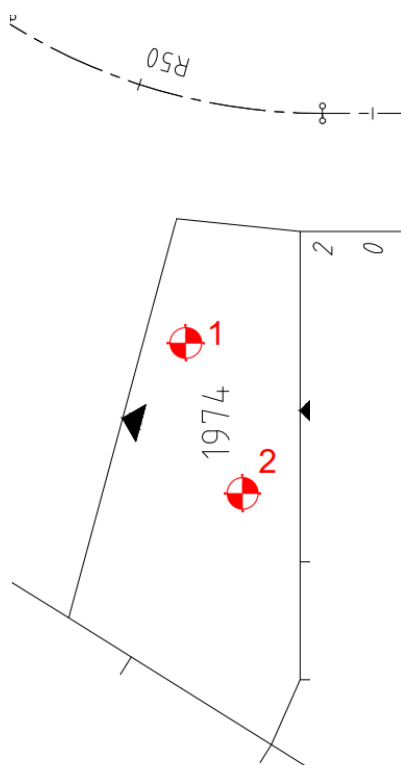


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1974



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)

1 (16737)	12.03.19	Location on attached plan. R.L.4.96.	96.0
2 (16806)	15.03.19	Location on attached plan. R.L.5.62.	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 18A.

In our opinion all fill on Lot 1974 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

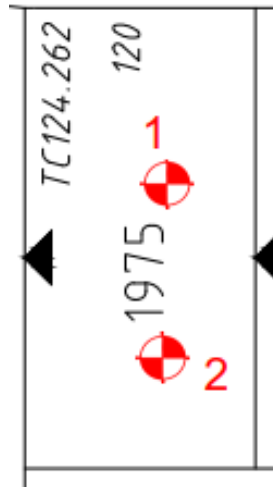
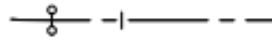


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1975**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16422)	15.02.19	Location on attached plan. R.L.4.82.	101.0
2 (16810)	15.03.19	Location on attached plan. R.L.5.32.	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 18A.

In our opinion all fill on Lot 1975 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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GREG McGRANN

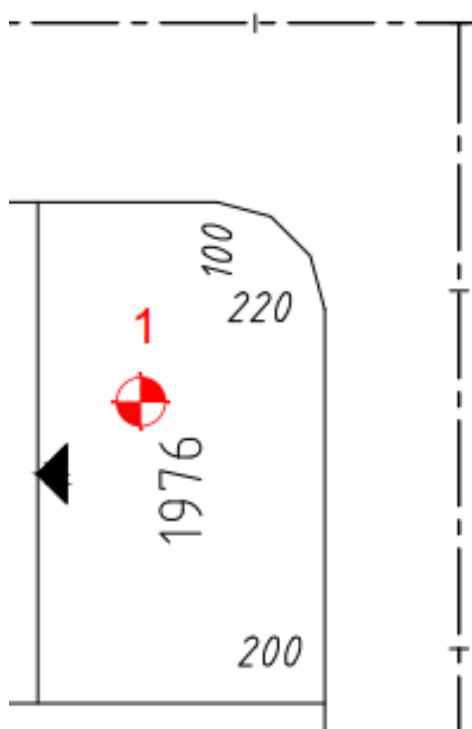


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1976



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16804)	15.03.19	Location on attached plan. R.L.5.31.	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 18A.

In our opinion all fill on Lot 1976 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

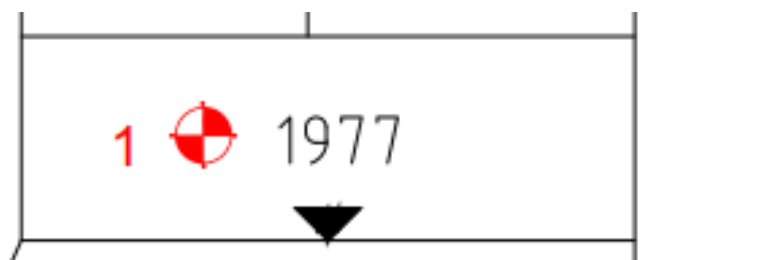


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1977**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16764)	13.03.19	Location on attached plan. R.L.5.54.	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 18A.

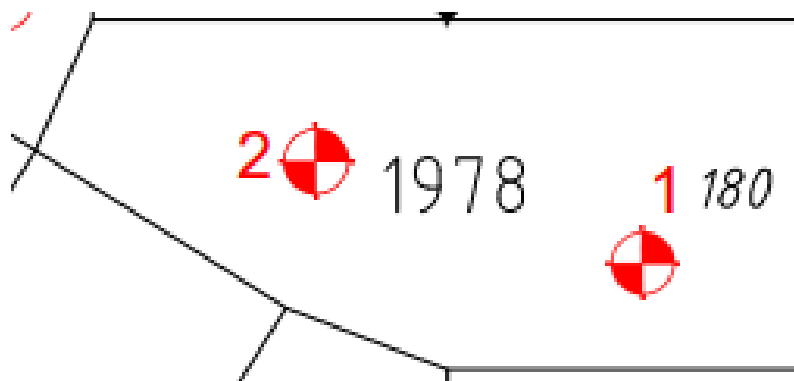
In our opinion all fill on Lot 1977 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1978**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16423)	15.02.19	Location on attached plan. R.L.4.61.	104.0
2 (16809)	15.03.19	Location on attached plan. R.L.5.74.	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 18A.

In our opinion all fill on Lot 1978 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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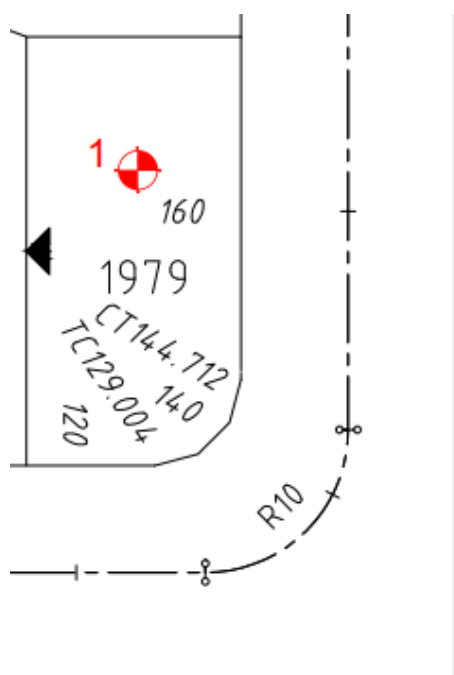


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1979



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16763)	13.03.19	Location on attached plan. R.L.5.71.	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 18A.

In our opinion all fill on Lot 1979 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



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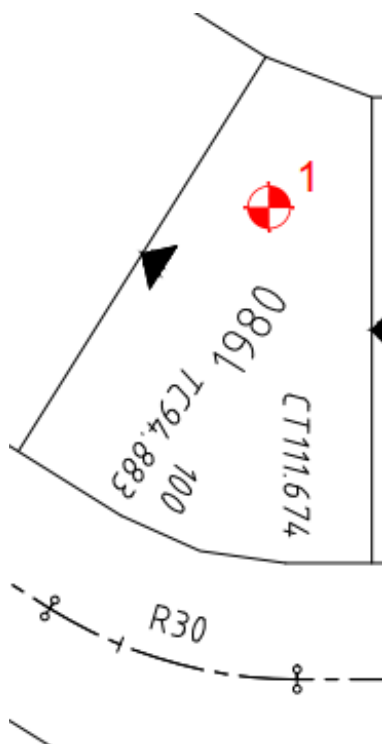


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1980



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16811)	15.03.19	Location on attached plan. R.L.5.59.	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 18A.

In our opinion all fill on Lot 1980 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

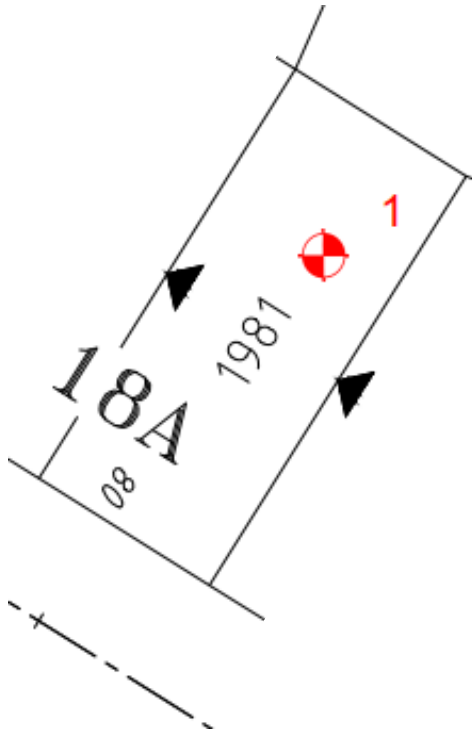


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1981**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16805)	15.03.19	Location on attached plan. R.L.5.47.	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 18A.

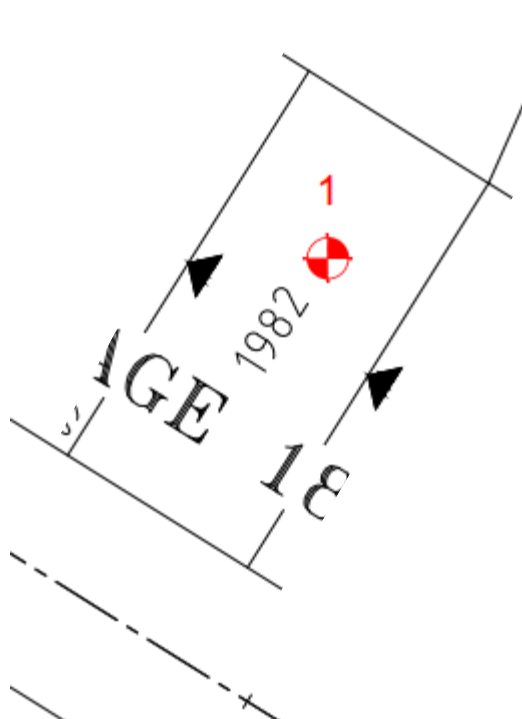
In our opinion all fill on Lot 1981 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1982**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16812)	15.03.19	Location on attached plan. R.L.5.40.	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 18A.

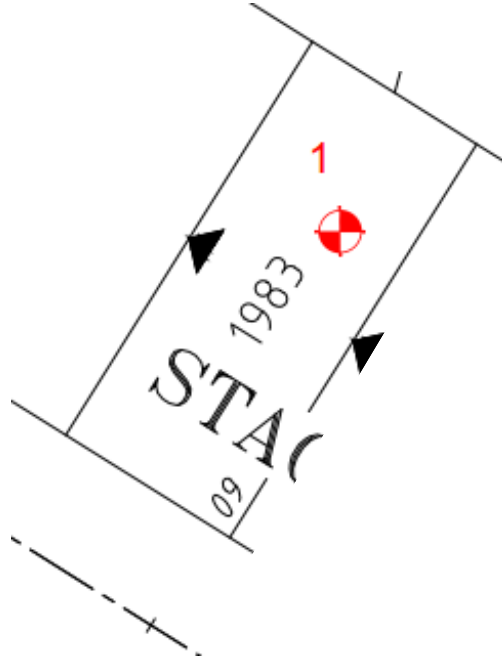
In our opinion all fill on Lot 1982 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1983**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16807)	15.03.19	Location on attached plan. R.L.5.25.	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 18A.

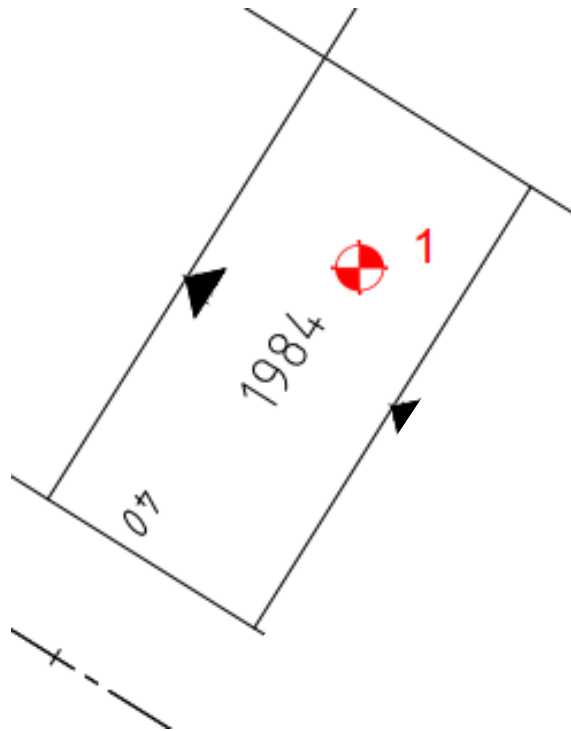
In our opinion all fill on Lot 1983 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1984**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16739)	12.03.19	Location on attached plan. R.L.5.36.	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 18A.

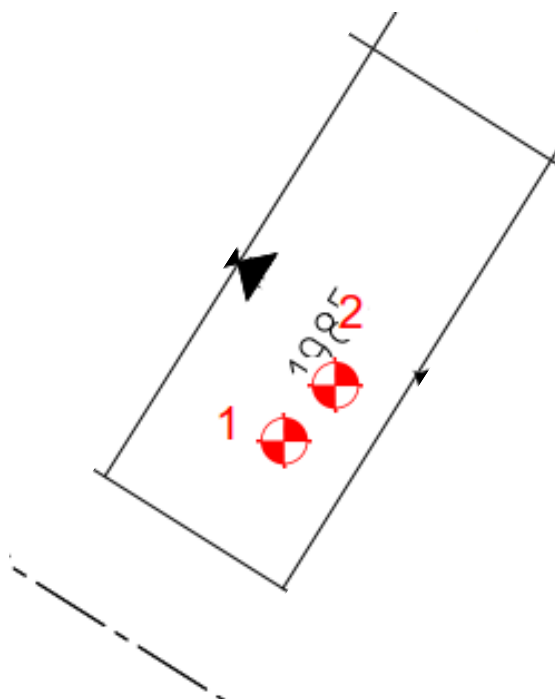
In our opinion all fill on Lot 1984 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1985**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16424)	15.02.19	Location on attached plan. R.L.4.52.	102.5
2 (17860)	04.07.19	o/s 7m Front bdy, o/s 2m Left bdy. R.L.5.10.	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 18A.

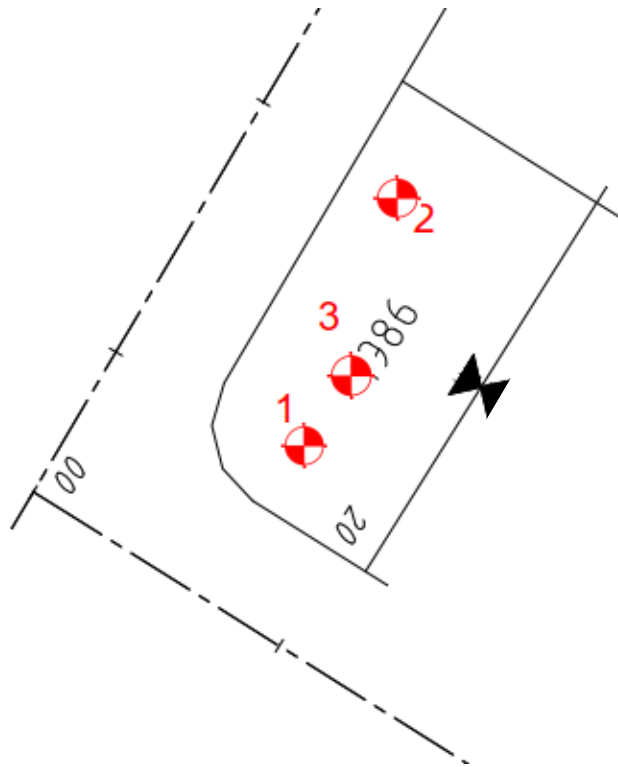
In our opinion all fill on Lot 1985 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1986**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16351)	12.02.19	Location on attached plan. R.L.3.50.	97.0
2 (16553)	25.02.19	Location on attached plan. R.L.4.49.	96.5
3 (17861)	04.07.19	o/s 8m Front bdy, o/s 4m Left bdy. R.L.5.08.	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 18A.

In our opinion all fill on Lot 1986 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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GREG McGRANN

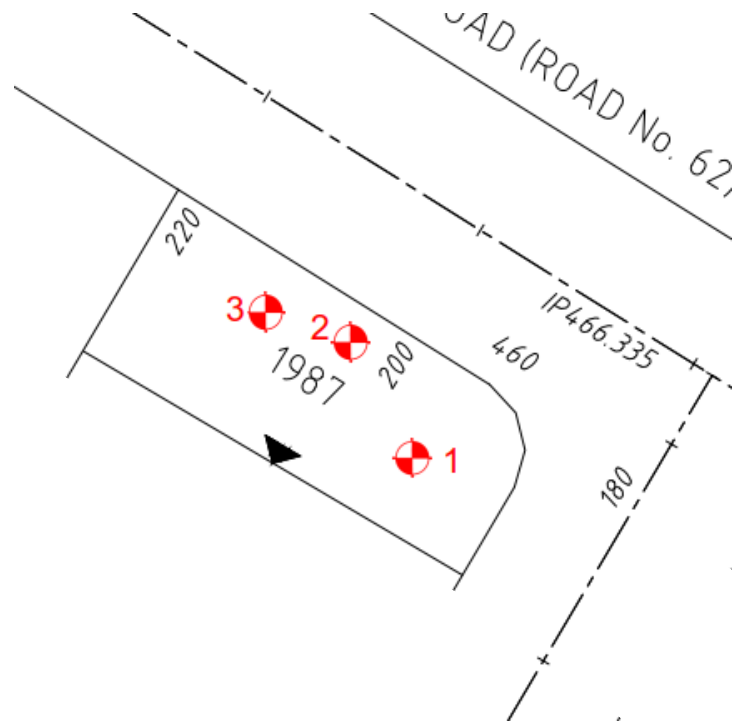


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1987



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16552)	25.02.19	Location on attached plan. R.L.3.31.	97.5
2 (17262)	16.05.19	Location on attached plan. R.L.4.05.	103.0
3 (17862)	04.07.19	o/s 7m Rear bdy, o/s 2m Right bdy. R.L.5.01.	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 18A.

In our opinion all fill on Lot 1987 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

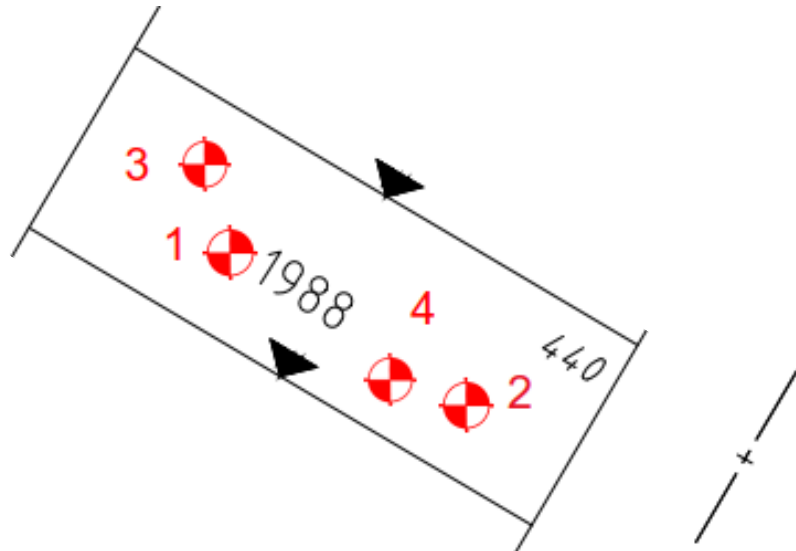


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1988**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16418)	14.02.19	Location on attached plan. R.L.3.09.	100.0
2 (17025)	15.04.19	Location on attached plan. R.L.3.64.	101.5
3 (17261)	16.06.19	Location on attached plan. R.L.4.08.	100.5
4 (17863)	04.07.19	o/s 6m Front bdy, 3m Left bdy. R.L.4.93.	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 18A.

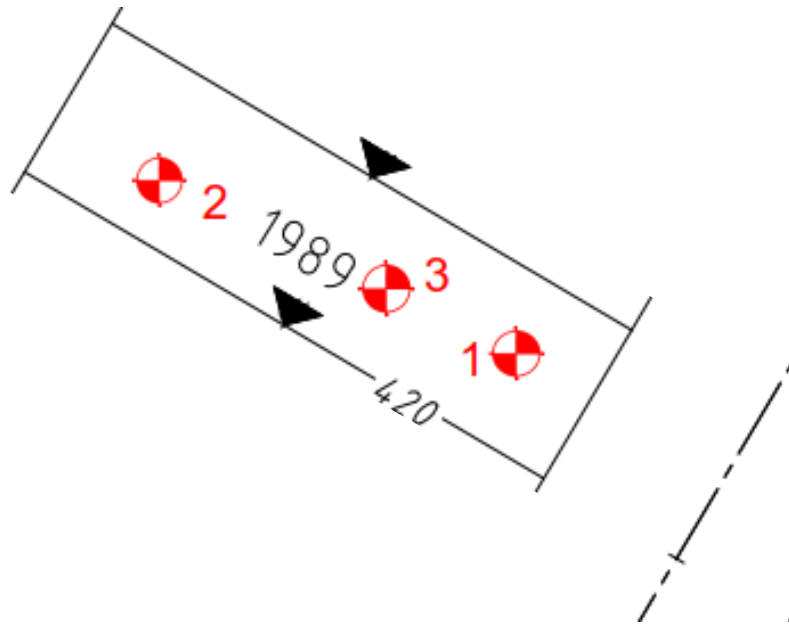
In our opinion all fill on Lot 1988 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1989**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16345)	11.02.19	Location on attached plan. R.L.2.61.	100.0
2 (16778)	14.03.19	Location on attached plan. R.L.3.31.	97.5
3 (17366)	24.05.19	Location on attached plan. R.L.4.87.	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 18A.

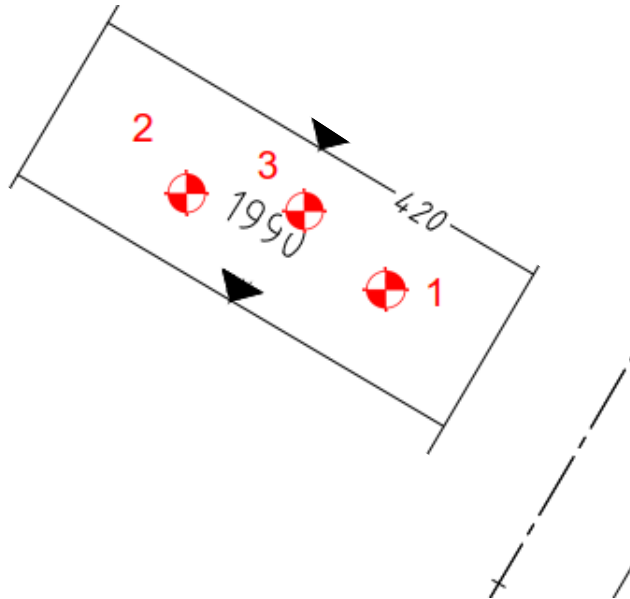
In our opinion all fill on Lot 1989 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1990**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16779)	14.03.19	Location on attached plan. R.L.3.32.	96.0
2 (17207)	09.05.19	Location on attached plan. R.L.4.38.	99.5
3 (17865)	04.07.19	o/s 12m Front bdy, o/s 3m Right bdy. R.L.5.21.	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 18A.

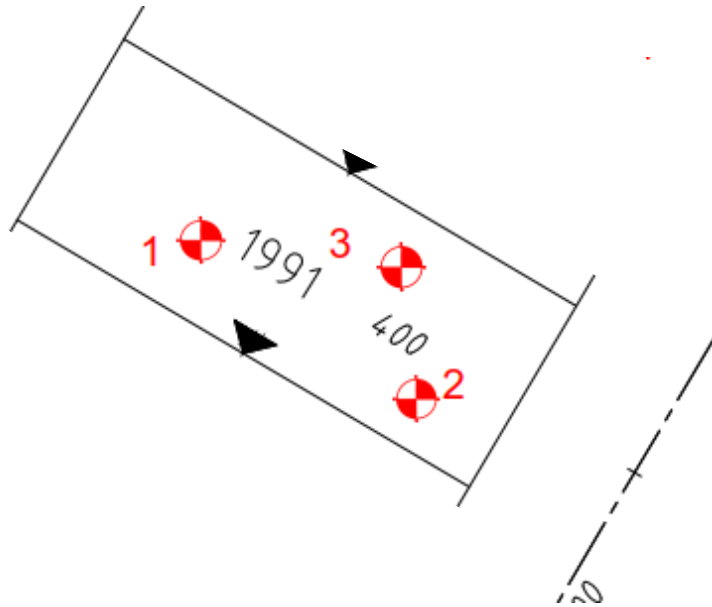
In our opinion all fill on Lot 1990 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1991**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16419)	14.02.19	Location on attached plan. R.L.3.70.	95.5
2 (17206)	09.05.19	Location on attached plan. R.L.4.57.	101.0
3 (17362)	24.05.19	Location on attached plan. R.L.5.04.	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 18A.

In our opinion all fill on Lot 1991 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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GREG McGRANN

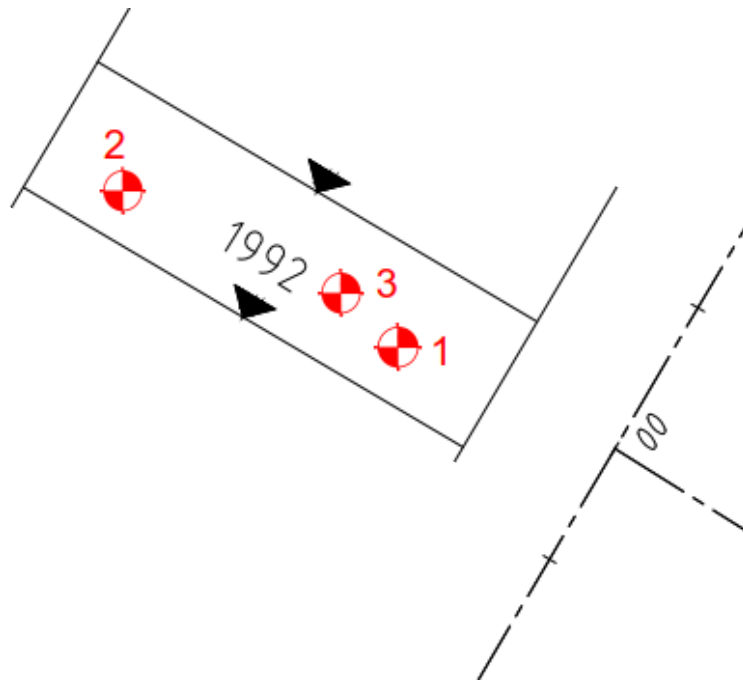


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 1992



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16346)	12.02.19	Location on attached plan. R.L.2.72.	103.5
2 (17024)	15.04.19	Location on attached plan. R.L.4.20.	98.5
3 (17866)	04.07.19	o/s 10m Front bdy, o/s 2m Left bdy. R.L.5.33	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 18A.

In our opinion all fill on Lot 1992 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

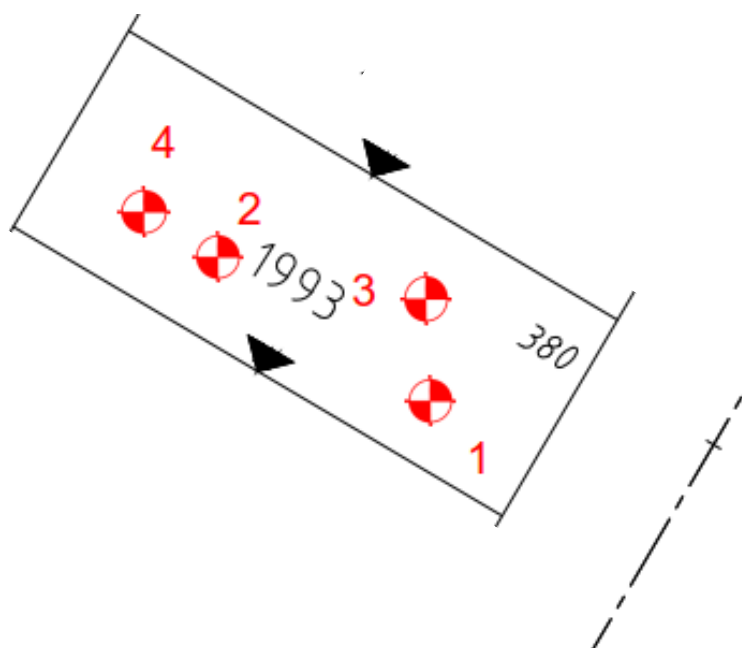


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1993**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16349)	12.02.19	Location on attached plan. R.L.2.21.	102.0
2 (16780)	14.03.19	Location on attached plan. R.L.3.70.	95.5
3 (17142)	07.05.19	Location on attached plan. R.L.4.62.	101.0
4 (17363)	24.05.19	Location on attached plan. R.L.5.11.	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 18A.

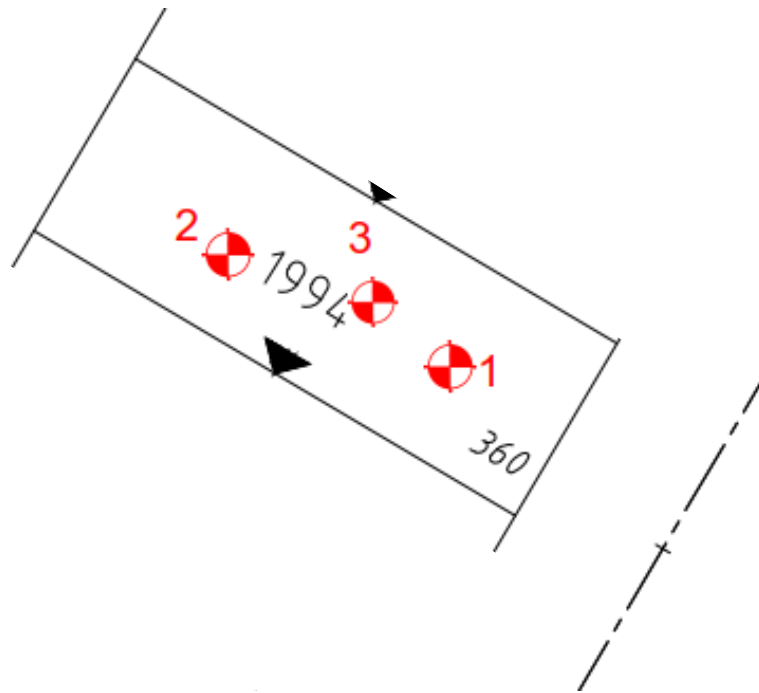
In our opinion all fill on Lot 1993 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1994**



Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
Bulk Earthworks (Refer Bulk Earthworks Results and Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16781)	14.03.19	Location on attached plan. R.L.3.92.	96.5
2 (17023)	15.04.19	Location on attached plan. R.L.4.75.	97.5
3 (17864)	04.07.19	o/s 10m Front bdy, o/s 2m Right bdy. R.L.5.40.	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 18A.

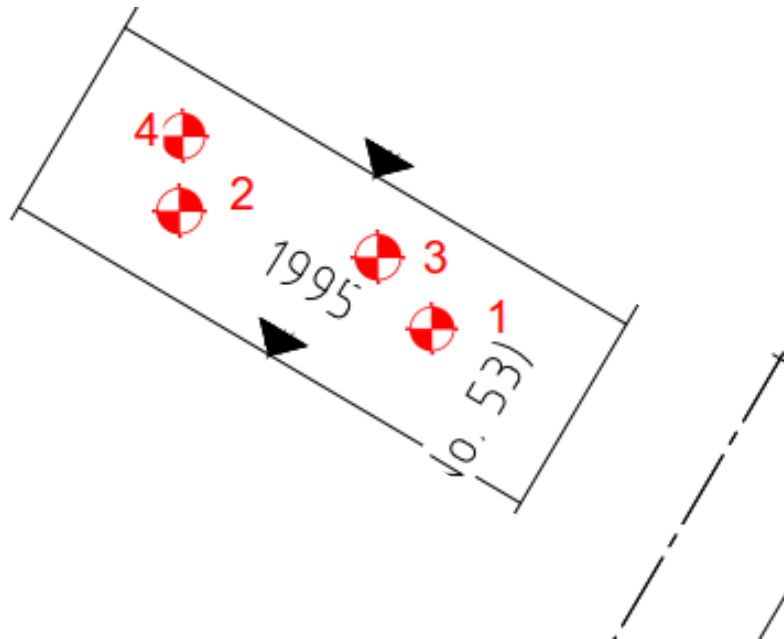
In our opinion all fill on Lot 1994 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1995**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16344)	11.02.19	Location on attached plan. R.L.2.52.	98.0
2 (16397)	13.02.19	Location on attached plan. R.L.3.19.	100.5
3 (17143)	07.05.19	Location on attached plan. R.L.4.38.	100.5
4 (17364)	24.05.19	Location on attached plan. R.L.5.36.	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 18A.

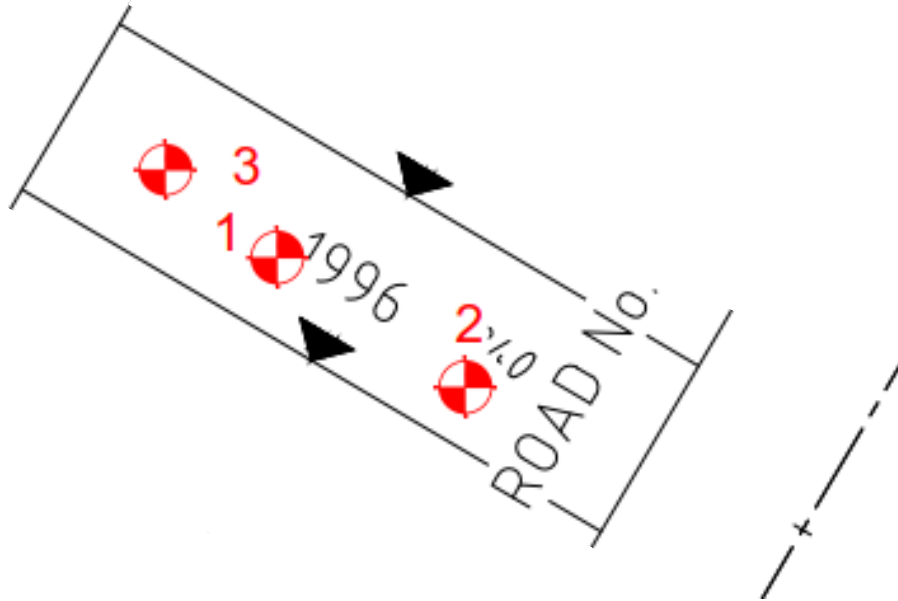
In our opinion all fill on Lot 1995 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1996**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16782)	14.03.19	Location on attached plan. R.L.4.13.	96.5
2 (17022)	15.04.19	Location on attached plan. R.L.4.93	99.0
3 (17345)	23.05.19	Location on attached plan. R.L.5.41.	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 18A.

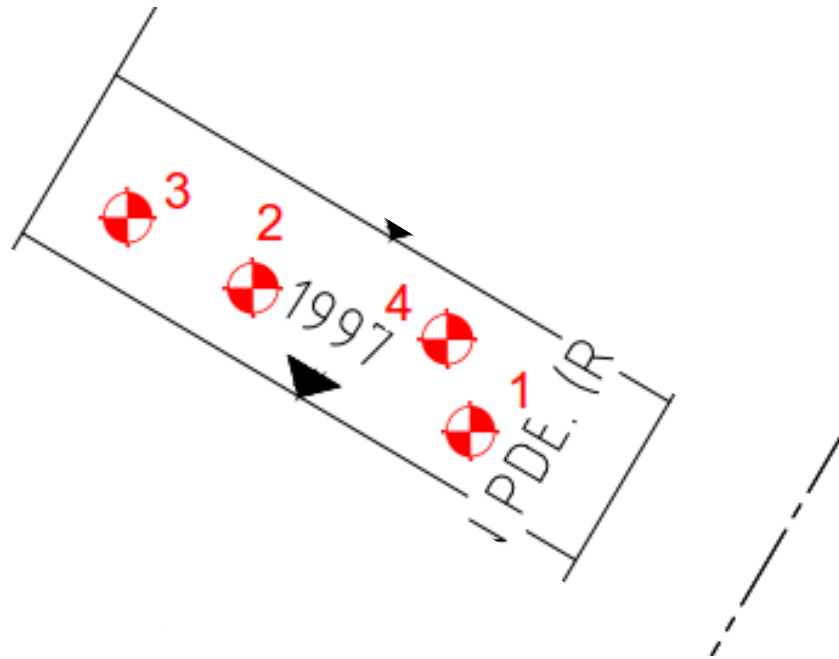
In our opinion all fill on Lot 1996 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1997**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16398)	13.02.19	Location on attached plan. R.L.3.15.	101.5
2 (16783)	14.03.19	Location on attached plan. R.L.4.14.	96.5
3 (17141)	07.05.19	Location on attached plan. R.L.5.06.	99.0
4 (17344)	23.05.19	Location on attached plan. R.L.5.44.	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 18A.

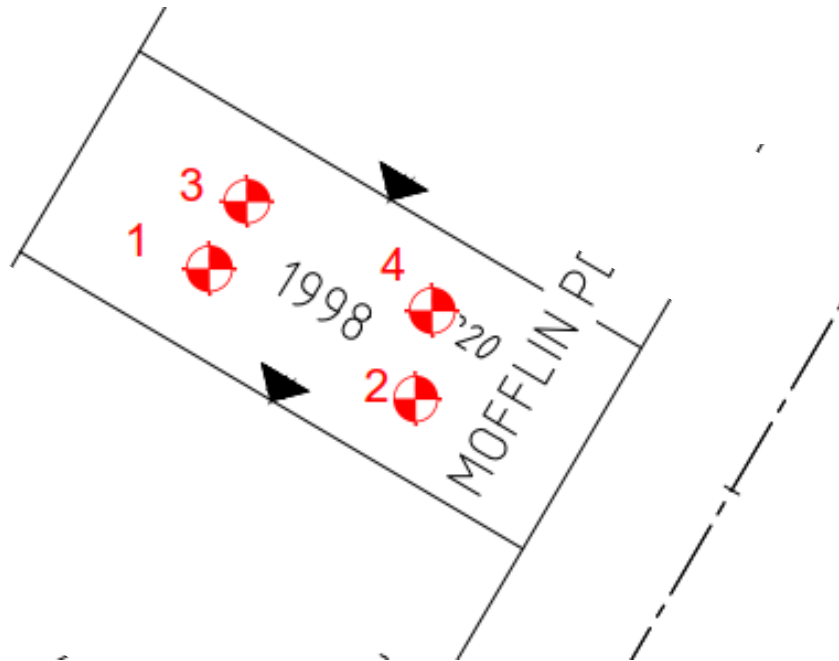
In our opinion all fill on Lot 1997 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


.....
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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1998**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16963)	09.04.19	Location on attached plan. R.L.3.61.	100.0
2 (17021)	15.04.19	Location on attached plan. R.L.4.46.	99.0
3 (17140)	07.05.19	Location on attached plan. R.L.5.16.	95.5
4 (17343)	23.05.19	Location on attached plan. R.L.5.47.	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 18A.

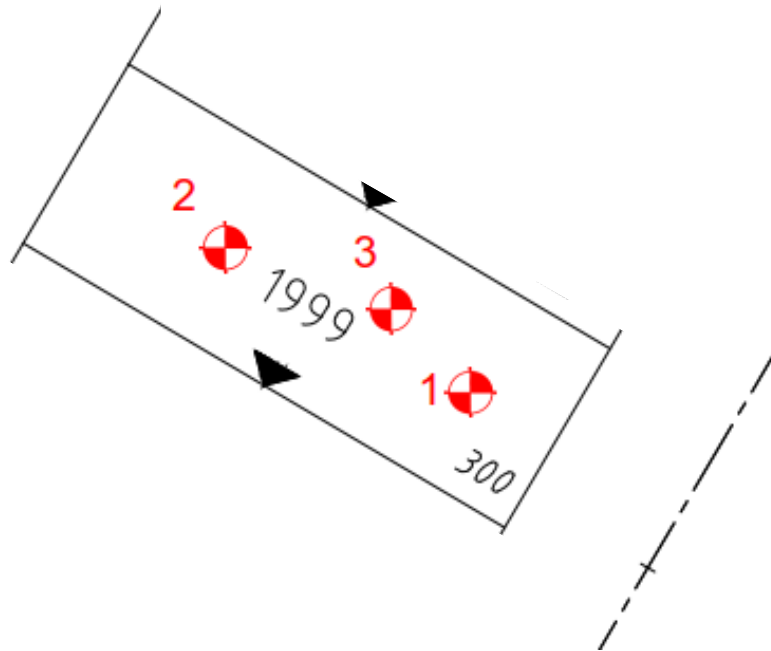
In our opinion all fill on Lot 1998 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 1999**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16350)	12.02.19	Location on attached plan. R.L.2.23.	98.5
2 (16962)	09.04.19	Location on attached plan. R.L.3.65	95.0
3 (17342)	23.05.19	Location on attached plan. R.L.5.35.	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 18A.

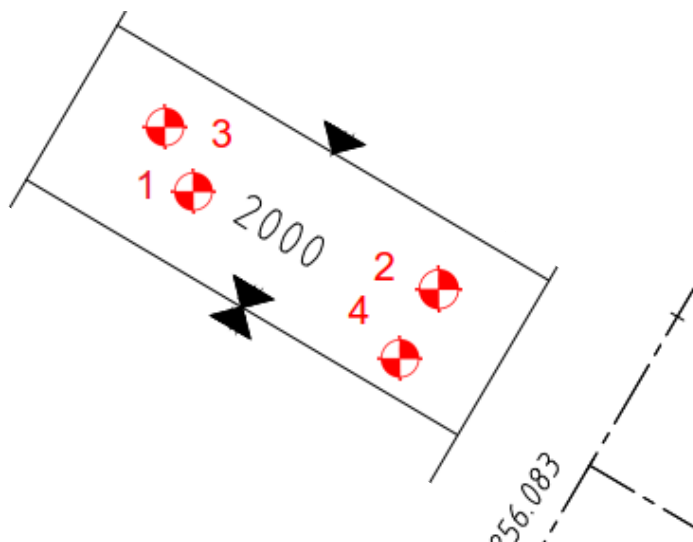
In our opinion all fill on Lot 1999 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 2000**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (16347)	12.02.19	Location on attached plan. R.L.3.10.	101.5
2 (16396)	13.02.19	Location on attached plan. R.L.3.51.	102.0
3 (17456)	30.05.19	Location on attached plan. R.L.4.75.	101.5
4 (17457)	30.05.19	Location on attached plan. R.L.5.25.	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 18A.

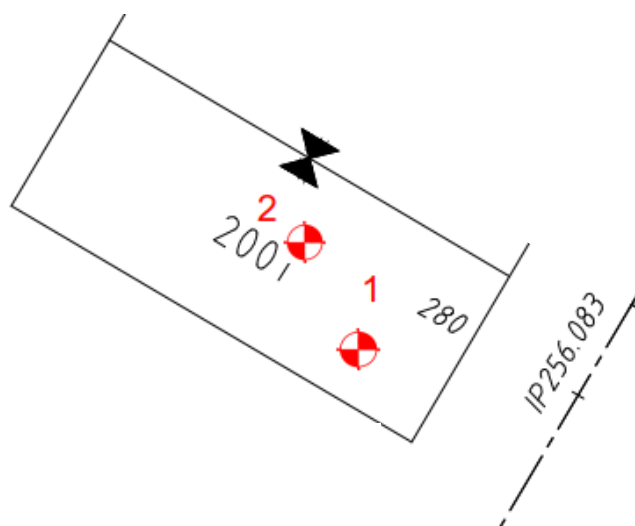
In our opinion all fill on Lot 2000 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 2001**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17236)	14.05.19	Location on attached plan. R.L.4.32.	97.0
2 (17859)	04.07.19	o/s 10m Front bdy, o/s 3m Right bdy. R.L.5.19.	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 18A.

In our opinion all fill on Lot 2001 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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GREG McGRANN

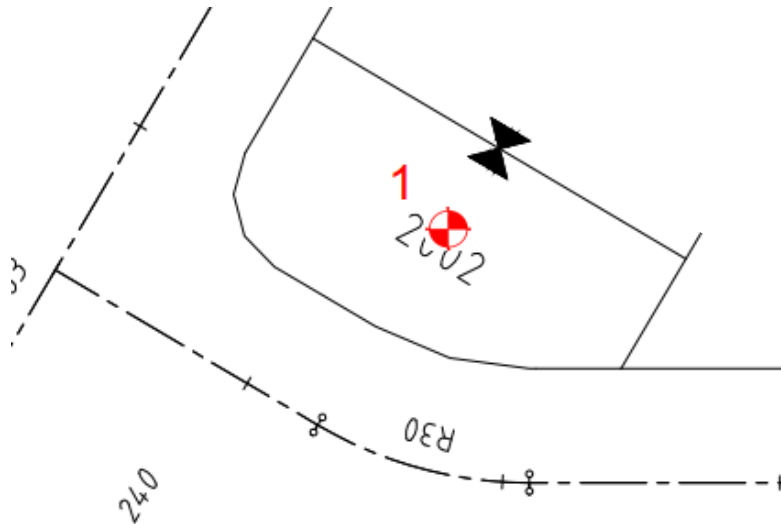


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 2002



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17205)	09.05.19	o/s 11m Front bdy, o/s 4m Left bdy. R.L.5.19.	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 18A.

In our opinion all fill on Lot 2002 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

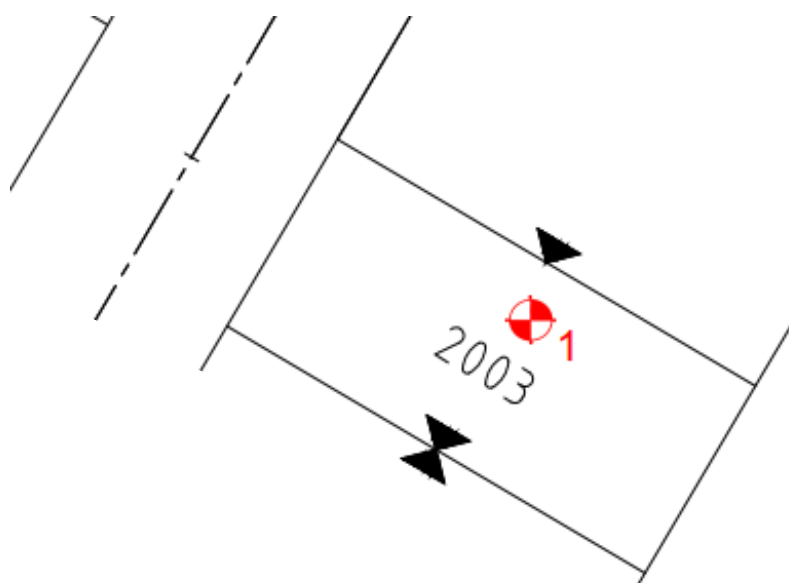


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 2003**



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17169)	08.05.19	o/s 12m Front bdy, o/s 2m Left bdy. R.L.5.28.	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 18A.

In our opinion all fill on Lot 2003 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.


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GREG McGRANN

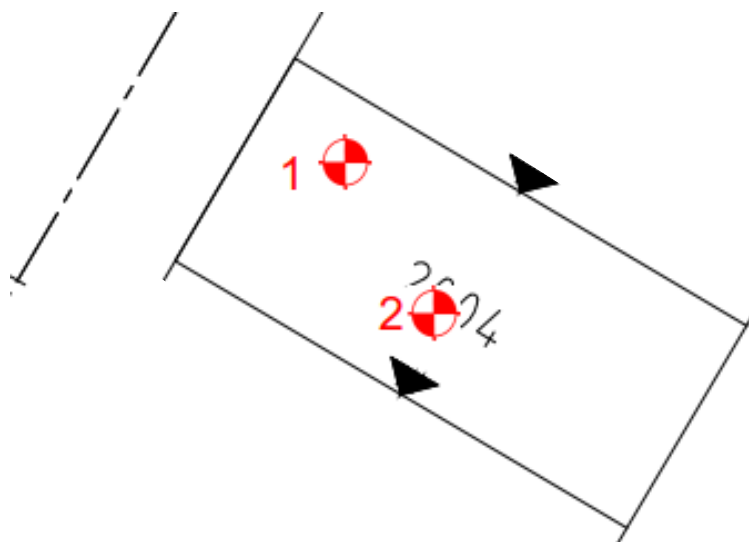


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 2004



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (17075)	30.04.19	Location on attached plan. R.L.5.30.	92.0
2 (17204)	09.05.19	o/s 10m Front bdy, 3m Right bdy. R.L.5.24. Retest.	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 18A.

In our opinion all fill on Lot 2004 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.



GREG McGRANN

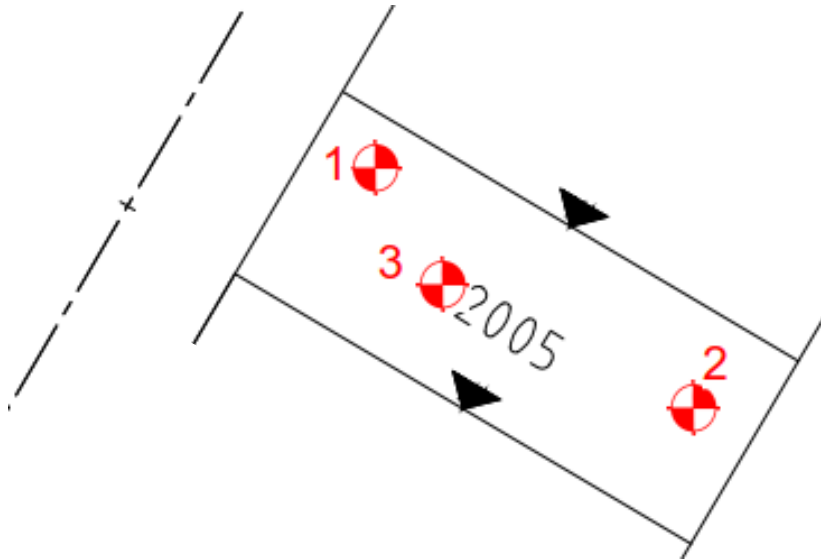


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 2005



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16996)	14.04.19	Location on attached plan. R.L.4.67.	99.5
2 (17074)	30.04.19	Location on attached plan. R.L.5.29.	91.0
3 (17167)	08.05.19	o/s 8m Front bdy, o/s 5m Left bdy. R.L.5.17. Retest.	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 18A.

In our opinion all fill on Lot 2005 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

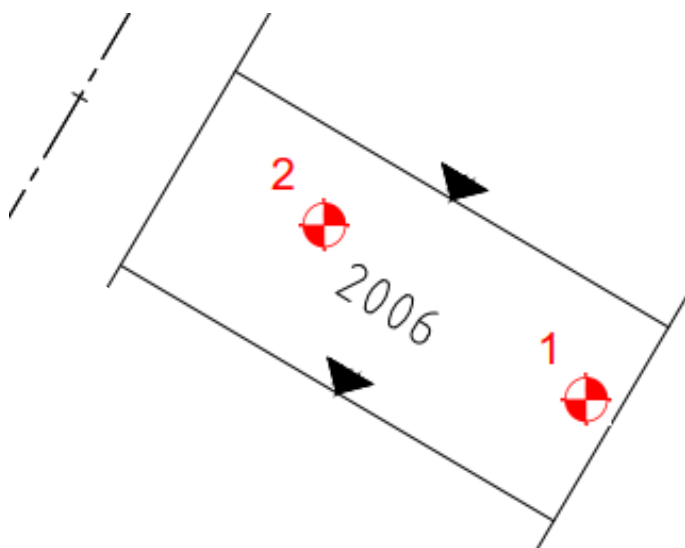


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**EARTHWORKS SUMMARY REPORT
CAPESTONE ESTATE – STAGE 18A
LOT 2006**



Field Density Results

Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
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**Bulk Earthworks (Refer Bulk Earthworks Results and
Plan Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)**

1 (17073)	30.04.19	Location on attached plan. R.L.5.24.	93.0
2 (17166)	08.05.19	o/s 7m Front bdy, o/s 3m Left bdy. R.L.5.06. Retest.	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 18A.

In our opinion all fill on Lot 2006 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.


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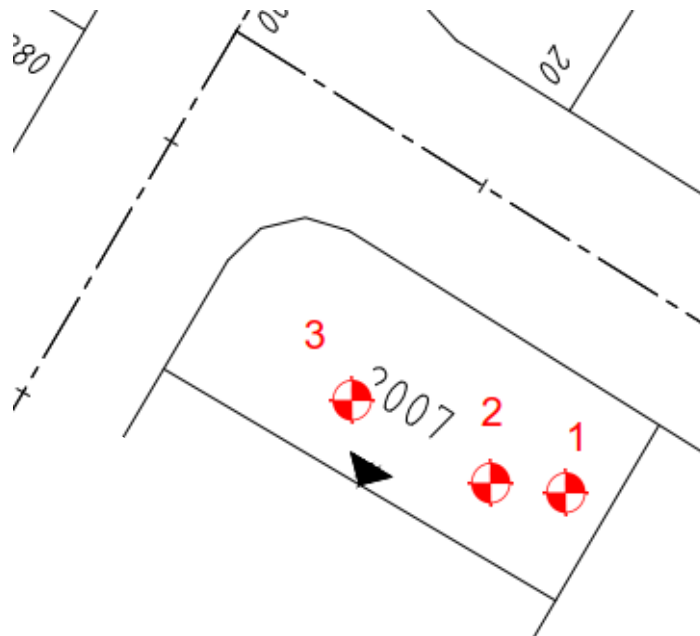


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EARTHWORKS SUMMARY REPORT

CAPESTONE ESTATE – STAGE 18A

LOT 2007



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 Nos. BST-BEW-ST20B, BST-BEW-FZ8, CG003 & CG004 REV0)			
1 (16995)	12.04.19	Location on attached plan. R.L.4.63.	96.5
2 (17072)	30.04.19	Location on attached plan. R.L.5.19.	92.0
3 (17168)	08.05.19	o/s 10m Front bdy, o/s 4m Right bdy. R.L.5.15. Retest.	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 18A.

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



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	98.0
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	95.0
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	99.5
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	99.0
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.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

Greg McGrann



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	100.5
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	97.0
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	100.5
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	96.5
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

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Greg McGrann/Manager

Approved Signatory

Date: 25.10.17

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	102.0
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	100.0
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	100.5
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	102.5
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

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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	103.0
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	95.5
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	104.0
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	100.0
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

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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	96.5
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	98.0
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	96.5
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	96.5
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



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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	102.5
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	98.0
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	98.0
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	101.5
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

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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	104.0
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	102.5
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	95.0
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	99.5
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



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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	96.0
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	100.0
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	96.0
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	96.5
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

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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	102.0
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	95.5
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	97.0
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	99.5
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

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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	98.5
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	101.0
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	99.0
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	98.5
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

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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	98.5
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	97.5
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	98.0
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	97.5
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

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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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Dry		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density t/m ³	Max. Dry Density t/m ³	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	97.0
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	101.0
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	98.0
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	97.5
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



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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42541
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	17/09/2018	Tested by	GMG JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14584	7.30	150	FZ8 LOC ON ATT PLAN R.L.1.84	14584	-	-	11.5	Adj. 12.5	1.0 DRY	2.11	Adj. 2.12	99.5
				Material Description: BROWN SILTY SANDY CLAY								
14585	7.30	150	FZ8 LOC ON ATT PLAN R.L.2.00	14585	-	-	12.0	Adj. 12.0	-	2.11	Adj. 2.14	98.5
				Material Description: BROWN SILTY SANDY CLAY								
14586	8.00	150	FZ8 LOC ON ATT PLAN R.L.1.90	14586	-	-	13.5	Adj. 14.5	1.0 DRY	2.12	Adj. 2.07	102.5
				Material Description: BROWN SILTY SANDY CLAY								
14587	8.00	150	FZ8 LOC ON ATT PLAN R.L.1.83	14587	-	-	13.5	Adj. 14.0	0.5 DRY	2.09	Adj. 2.08	100.5
				Material Description: BROWN SILTY SANDY CLAY								
14588	8.40	150	FZ8 LOC ON ATT PLAN R.L.2.05	14588	-	-	12.5	Adj. 13.0	0.5 DRY	1.89	Adj. 2.11	101.0
				Material Description: BROWN SILTY SANDY CLAY								
								Adj.			Adj.	
				Material Description:								

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 21/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 21/09/2018

Greg McGrann



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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42611
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	26/09/2018	Tested by	JM AC LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
14729	12.15	150	FZ8 LOC ON ATT PLAN R.L.1.69	14729	-	-	16.5	Adj. 16.0	0.5 WET	1.94	Adj. 2.02	96.0
				Material Description: YELLOW-BROWN & GREY SILTY CLAY								
14730	12.20	150	FZ8 LOC ON ATT PLAN R.L.1.62	14730	-	-	16.5	Adj. 17.5	1.0 DRY	2.00	Adj. 2.01	99.5
				Material Description: LIGHT GREY-BROWN SILTY CLAY								
14731	12.20	150	FZ8 LOC ON ATT PLAN R.L.1.99	14731	-	-	21.0	Adj. 20.0	1.0 WET	1.92	Adj. 1.98	97.0
				Material Description: LIGHT GREY-BROWN SILTY CLAY								
14732	12.45	150	FZ8 LOC ON ATT PLAN R.L.1.98	14732	-	-	13.5	Adj. 14.0	0.5 DRY	2.02	Adj. 2.09	97.0
				Material Description: DARK 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: 27/09/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Date: 27/09/2018

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HILF DENSITY RATIO REPORT

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	42795
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	05/11/2018	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
15044	8.30	150	FZ8 LOC ON ATT PLAN R.L.2.12	15044	-	-	28.5	Adj. 25.5	3.0 WET	1.97	Adj. 2.00	98.5
Material Description: DARK GREY SILTY CLAY.												
15045	8.50	150	FZ8 LOC ON ATT PLAN R.L.2.20	15045	-	-	20.0	Adj. 20.5	0.5 DRY	2.01	Adj. 2.10	95.5
Material Description: DARK BROWN SILTY CLAY.												
15046	9.20	150	FZ8 LOC ON ATT PLAN R.L.2.20	15046	-	-	20.5	Adj. 19.5	1.0 WET	2.13	Adj. 2.11	101.0
Material Description: DARK BROWN SILTY CLAY.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.7.1, 5.3.1, 5.4.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 09/11/2018



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Greg McGrann/Manager
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Date: 09/11/2018

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	43503
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	11/02/2019	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16344	13.30	150	LOT 1995 LOC ON ATT PLAN R.L.2.52	16344	-	-	12.5	Adj. 14.0	1.5 DRY	2.12	Adj. 2.16	98.0
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY.												
16345	13.50	150	LOT 1989 LOC ON ATT PLAN R.L.2.61	16345	-	-	13.5	Adj. 14.5	1.0 DRY	2.08	Adj. 2.08	100.0
Material Description: LIGHT BROWN SILTY CLAY.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

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



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Accreditation No.2415

Greg McGrann/Manager
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Date:15/04/2019

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	43504
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	12/02/2019	Tested by	AC JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16346	10.30	150	LOT 1992 LOC ON ATT PLAN R.L.2.72	16346	-	12.5	Adj. 13.5	1.0 DRY	2.16	Adj. 2.09	103.5
Material Description: GREY-BROWN SILTY SANDY CLAY & ROCK FRAGMENTS.											
16347	10.50	150	LOT 2000 LOC ON ATT PLAN R.L.3.10	16347	-	18.5	Adj. 18.5	-	2.10	Adj. 2.07	101.5
Material Description: LIGHT BROWN SILTY SANDY CLAY.											
16348	10.30	150	LOT 1971 LOC ON ATT PLAN R.L.2.93	16348	-	13.5	Adj. 14.5	1.0 DRY	1.97	Adj. 2.04	96.5
Material Description: LIGHT GREY-BROWN & RED SILTY CLAY.											
16349	11.45	150	LOT 1993 LOC ON ATT PLAN R.L.2.21	16349	-	17.5	Adj. 18.0	0.5 DRY	2.08	Adj. 2.04	102.0
Material Description: LIGHT GREY-BROWN & RED SILTY CLAY.											
16350	13.30	150	LOT 1999 LOC ON ATT PLAN R.L.2.23	16350	-	16.0	Adj. 17.0	1.0 DRY	2.00	Adj. 2.03	98.5
Material Description: GREY-BROWN SILTY CLAY.											
16351	13.30	150	LOT 1986 LOC ON ATT PLAN R.L.3.50	16351	-	17.5	Adj. 17.0	0.5 WET	2.00	Adj. 2.06	97.0
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:15/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	43505
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	12/02/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16352	13.50	150	LOT 1971 LOC ON ATT PLAN R.L.3.78	16352	-	-	15.0	Adj. 16.5	1.5 DRY	2.05	Adj. 2.02	101.5
								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

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Accreditation No.2415

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Date:15/04/2019

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	43506
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	13/02/2019	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16396	10.30	150	LOT 2000 LOC ON ATT PLAN R.L.3.51	16396	-	-	16.0	Adj. 17.5	1.5 DRY	2.11	Adj. 2.07	102.0
Material Description: LIGHT GREY-BROWN SILTY CLAY.												
16397	10.45	150	LOT 1995 LOC ON ATT PLAN R.L.3.19	16397	-	-	15.5	Adj. 15.5	-	2.08	Adj. 2.07	100.5
Material Description: LIGHT GREY-BROWN SILTY CLAY.												
16398	13.30	150	LOT 1997 LOC ON ATT PLAN R.L.3.15	16398	-	-	15.5	Adj. 16.5	1.0 DRY	2.07	Adj. 2.04	101.5
Material Description: LIGHT BROWN SILTY CLAY.												
16399	13.45	150	LOT 1972 LOC ON ATT PLAN R.L.3.72	16399	-	-	17.0	Adj. 18.0	1.0 DRY	2.02	Adj. 2.04	99.0
Material Description: LIGHT GREY-BROWN SILTY CLAY.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

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



Accredited for compliance with ISO/IEC 17025 – Testing.

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Date:15/04/2019

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	43507
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	14/02/2019	Tested by	AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16418	10.30	150	LOT 1988 LOC ON ATT PLAN R.L.3.09	16418	-	-	13.5	Adj. 14.0	0.5 DRY	2.06	Adj. 2.06	100.0
Material Description: GREY-BROWN SILTY CLAY & ROCK FRAGMENTS												
16419	10.50	130	LOT 1991 LOC ON ATT PLAN R.L.3.70	16419	-	-	15.5	Adj. 15.5	-	2.01	Adj. 2.10	95.5
Material Description: REDDISH-BROWN & GREY SILTY CLAY & ROCK FRAGMENTS												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

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



Accredited for compliance with ISO/IEC 17025 – Testing.

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Date: 15/04/2019



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FIELD DENSITY CERTIFICATE

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	43508
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	15/02/2019	Tested by	AC GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16422	8.30	130	LOT 1975 LOC ON ATT PLAN R.L.4.82	16422	-	-	14.5	Adj. 16.0	1.5 DRY	2.07	Adj. 2.05	101.0
Material Description: LIGHT BROWN SILTY CLAY												
16423	9.30	130	LOT 1978 LOC ON ATT PLAN R.L.4.61	16423	-	-	13.5	Adj. 15.0	1.5 DRY	2.23	Adj. 2.14	104.0
Material Description: LIGHT REDDISH-BROWN SILTY CLAY												
16424	9.30	150	LOT 1985 LOC ON ATT PLAN R.L.4.52	16424	-	-	13.5	Adj. 13.5	-	2.17	Adj. 2.12	102.5
Material Description: LIGHT REDDISH-BROWN SILTY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 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.

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	BULK EARTHWORKS	Report No.	43509
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	25/02/2019	Tested by	JM AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16552	10.30	150	LOT 1987 LOC ON ATT PLAN R.L.3.31	16552	-	-	14.5	Adj. 15.5	1.0 DRY	1.93	Adj. 1.98	97.5
Material Description: LIGHT GREY-BROWN SILTY CLAY												
16553	10.30	150	LOT 1986 LOC ON ATT PLAN R.L.4.49	16553	-	-	14.0	Adj. 15.0	1.0 DRY	1.92	Adj. 1.99	96.5
Material Description: LIGHT GREY-BROWN SILTY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

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



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FIELD DENSITY CERTIFICATE

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43539
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	12/03/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16737	11.00	150	LOT 1974 LOC ON ATT PLAN R.L.4.96	16737	-	12.5	Adj. 15.0	2.5 DRY	2.00	Adj. 2.08	96.0
Material Description: BROWN SILTY CLAY.											
16738	11.30	150	LOT 1971 LOC ON ATT PLAN R.L.5.22	16738	-	12.0	Adj. 13.5	1.5 DRY	2.08	Adj. 2.17	96.0
Material Description: REDDISH-BROWN & GREY SANDY CLAY.											
16739	12.00	150	LOT 1984 LOC O NATT PLAN R.L.5.36	16739	-	9.0	Adj. 10.5	1.5 DRY	2.06	Adj. 2.16	95.5
Material Description: 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: 23/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 23/04/2019

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FIELD DENSITY CERTIFICATE

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43540
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	13/03/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16763	13.30	150	LOT 1979 LOC ON ATT PLAN R.L.5.71	16763	-	-	14.5	Adj. 13.0	1.5 WET	2.04	Adj. 2.14	95.5
Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY												
16764	13.50	150	LOT 1977 LOC ON ATT PLAN R.L.5.54	16764	-	-	11.5	Adj. 12.0	0.5 DRY	2.07	Adj. 2.15	96.5
Material Description: 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: 23/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 23/04/2019



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43541
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	14/03/2019	Tested by	LM JM AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16770	10.30	150	LOT 1970 LOC ON ATT PLAN R.L.5.21	16770	-	12.5	Adj. 15.0	2.5 DRY	1.99	Adj. 2.08	95.5
Material Description: LIGHT GREY-BROWN SILTY CLAY.											
16771	10.30	150	LOT 1969 LOC ON ATT PLAN R.L.5.40	16771	-	13.0	Adj. 14.0	1.0 DRY	2.03	Adj. 2.11	96.0
Material Description: DARK BROWN SILTY CLAY.											
16772	10.30	150	LOT 1968 LOC ON ATT PLAN R.L.5.53	16772	-	12.5	Adj. 15.0	2.5 DRY	2.03	Adj. 2.10	96.5
Material Description: LIGHT GREY-BROWN SILTY CLAY.											
16773	11.15	150	LOT 1967 LOC ON ATT PLAN R.L.5.62	16773	-	12.5	Adj. 15.5	3.0 DRY	1.97	Adj. 2.07	95.0
Material Description: GREY SILTY CLAY & ROCK FRAGMENTS.											
16774	11.15	150	LOT 1966 LOC ON ATT PLAN R.L.5.74	16774	-	11.0	Adj. 13.5	2.5 DRY	1.91	Adj. 1.99	96.0
Material Description: LIGHT GREY-BROWN SANDY SILT.											
16775	11.15	150	LOT 1965 LOC ON ATT PLAN R.L.5.80	16775	-	9.0	Adj. 12.5	3.5 DRY	2.10	Adj. 2.15	97.5
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: 23/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 23/04/2019

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FIELD DENSITY CERTIFICATE

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43542
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	14/03/2019	Tested by	LM JM AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16776	11.45	150	LOT 1964 LOC ON ATT PLAN R.L.5.91	16776	-	8.0	Adj. 10.5	2.5 DRY	2.17	Adj. 2.24	97.0
Material Description: DARK BROWN SANDY & FINE ROCK FRAGMENTS.											
16777	11.45	150	LOT 1963 LOC ON ATT PLAN R.L.6.07	16777	-	11.0	Adj. 14.5	3.5 DRY	2.07	Adj. 2.08	99.5
Material Description: LIGHT BROWN SILTY CLAY.											
16778	12.30	140	LOT 1989 LOC ON ATT PLAN R.L.3.31	16778	-	13.5	Adj. 13.0	0.5 WET	2.22	Adj. 2.28	97.5
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS.											
16779	12.30	150	LOT 1990 LOC ON ATT PLAN R.L.3.32	16779	-	12.0	Adj. 11.5	0.5 WET	2.17	Adj. 2.26	96.0
Material Description: LIGHT BROWN SANDY CLAY & ROCK FRAGMENTS.											
16780	12.30	140	LOT 1993 LOC ON ATT PLAN R.L.3.70	16780	-	14.0	Adj. 15.0	1.0 DRY	2.14	Adj. 2.24	95.5
Material Description: GREY-BROWN SANDY CLAY.											
16781	13.00	150	LOT 1994 LOC ON ATT PLAN R.L.3.92	16781	-	12.0	Adj. 11.5	0.5 WET	2.23	Adj. 2.31	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: 23/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMC

Accreditation No. 2415

Greg McGrann/Manager
Approved Signatory
Date: 23/04/2019

Greg McGrann



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43543
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	14/03/2019	Tested by	JM LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16782	13.00	150	LOT 1996 LOC ON ATT PLAN R.L.4.13	16782	-	-	13.5	Adj. 13.0	0.5 WET	2.21	Adj. 2.29	96.5
Material Description: LIGHT BROWN SANDY CLAY & FINE ROCK FRAGMENTS.												
16783	13.20	150	LOT 1997 LOC ON AT TPLAN R.L.4.14	16783	-	-	14.0	Adj. 14.0	-	100.0	Adj. 2.15	96.5
Material Description: LIGHT BROWN SANDY CLAY & FINE ROCK FRAGMENTS.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 23/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43544
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	15/03/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16804	8.00	150	LOT 1976 LOC ON ATT PLAN R.L.5.31	16804	-	-	10.0	Adj. 12.0	2.0 DRY	2.17	Adj. 2.13	102.0
				Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY								
16805	8.40	150	LOT 1981 LOC ON ATT PLAN R.L.5.47	16805	-	-	13.5	Adj. 13.0	0.5 WET	2.14	Adj. 2.17	98.5
				Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY								
16806	9.05	150	LOT 1974 LOC ON ATT PLAN R.L.5.62	16806	-	-	9.5	Adj. 9.5	-	2.21	Adj. 2.22	99.5
				Material Description: DARK BROWN SILTY SANDY CLAY								
16807	9.30	150	LOT 1983 LOC ON ATT PLAN R.L.5.25	16807	-	-	11.0	Adj. 10.5	0.5 WET	2.18	Adj. 2.21	98.5
				Material Description: GREY-BROWN SILTY SANDY CLAY								
16808	10.10	150	LOT 1972 LOC ON ATT PLAN R.L.5.17	16808	-	-	15.0	Adj. 14.0	1.0 WET	2.05	Adj. 2.15	95.5
				Material Description: GREY-BROWN SILTY CLAY								
16809	11.00	150	LOT 1978 LOC ON ATT PLAN R.L.5.74	16809	-	-	14.5	Adj. 14.0	0.5 WET	2.06	Adj. 2.14	96.5
				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: 23/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

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Approved Signatory
Date: 23/04/2019



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FIELD DENSITY CERTIFICATE

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43545
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	15/03/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16810	11.40	150	LOT 1975 LOC ON ATT PLAN R.L.5.32	16810	-	-	13.5	Adj. 15.0	1.5 DRY	2.10	Adj. 2.11	99.5
Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY												
16811	12.15	150	LOT 1980 LOC ON ATT PLAN R.L.5.59	16811	-	-	15.5	Adj. 15.5	-	2.09	Adj. 2.10	99.5
Material Description: REDDISH-BROWN & GREY SILTY SANDY CLAY												
16812	12.50	150	LOT 1982 LOC ON ATT PLAN R.L.5.40	16812	-	-	15.0	Adj. 15.5	0.5 DRY	2.12	Adj. 2.09	101.5
Material Description:												
16813	13.30	150	LOT 1973 LOC ON ATT PLAN R.L.5.18	16813	-	-	12.5	Adj. 13.5	1.0 DRY	2.07	Adj. 2.15	96.5
Material Description: 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: 23/04/2019



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43551
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	09/04/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16962	13.00	150	LOT 1999 LOC ON ATT PLAN R.L.3.65	16962	-	-	11.0	Adj. 13.0	2.0 DRY	2.00	Adj. 2.10	95.0
Material Description: BROWN SILTY SANDY CLAY												
16963	13.30	150	LOT 1998 LOC ON ATT PLAN R.L.3.61	16963	-	-	14.5	Adj. 16.5	2.0 DRY	2.09	Adj. 2.09	100.0
Material Description: DARK 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: 23/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43560
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	12/04/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
16995	9.30	150	LOT 2007 LOC ON ATT PLAN R.L.4.63	16995	-	-	14.0	Adj. 14.0	-	2.11	Adj. 2.19	96.5
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY												
16996	10.00	150	LOT 2005 LOC ON ATT PLAN R.L.4.67	16996	-	-	12.0	Adj. 14.0	2.0 DRY	2.12	Adj. 2.13	99.5
Material Description: 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: 24/04/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43561
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	15/04/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17021	8.40	150	LOT 1998 LOC ON ATT PLAN R.L.4.46	17021	-	-	14.0	Adj. 14.5	0.5 DRY	2.17	Adj. 2.19	99.0
Material Description: DARK GREY-BROWN SILTY SANDY CLAY.												
17022	9.30	150	LOT 1996 LOC ON ATT PLAN R.L.4.93	17022	-	-	11.5	Adj. 13.0	1.5 DRY	2.16	Adj. 2.18	99.0
Material Description: DARK BROWN SILTY SANDY CLAY.												
17023	10.00	150	LOT 1994 LOC ON ATT PLAN R.L.4.75	17023	-	-	12.0	Adj. 13.5	1.5 DRY	2.13	Adj. 2.19	97.5
Material Description: BROWN SILTY SANDY CLAY.												
17024	11.30	150	LOT 1992 LOC ON ATT PLAN R.L.4.20	17024	-	-	12.5	Adj. 13.5	1.0 DRY	2.13	Adj. 2.16	98.5
Material Description: BROWN SILTY SANDY CLAY.												
17025	12.30	150	LOT 1988 LOC ON ATT PLAN R.L.3.64	17025	-	-	11.0	Adj. 12.0	1.0 DRY	2.21	Adj. 2.18	101.5
Material Description: GREY-BROWN SILTY SANDY CLAY.												
								Adj.			Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 24/04/2019



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43581
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	30/04/2019	Tested by	JM AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17072	9.15	150	LOT 2007 8m Front bdy, 6m Left bdy R.L.5.19	17072	-	-	13.5	Adj. 10.5	3.0 WET	2.12	Adj. 2.31	92.0
Material Description: GREY-BROWN SANDY CLAY												
17073	10.05	150	LOT 2006 7m Front bdy, 6m Left bdy R.L.5.24	17073	-	-	15.0	Adj. 12.5	2.5 WET	2.11	Adj. 2.27	93.0
Material Description: GREY-BROWN SILTY SANDY CLAY												
17074	10.15	150	LOT 2005 8m Front bdy, 5m Right bdy R.L.5.29	17074	-	-	14.0	Adj. 11.0	3.0 WET	2.08	Adj. 2.28	91.0
Material Description: GREY-BROWN SILTY SANDY CLAY												
17075	10.30	150	LOT 2004 8m Front bdy, 4m Right bdy R.L.5.30	17075	-	-	16.5	Adj. 13.5	3.0 WET	2.05	Adj. 2.23	92.0
Material Description: DARK GREY-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: 02/05/2019

Checked By: E MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 02/05/2019



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43621
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	07/05/2019	Tested by	AC JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17140	8.00	150	LOT 1998 LOC ON ATT PLAN R.L.5.16	17140	-	-	16.0	Adj. 15.0	1.0 WET	2.18	Adj. 2.28	95.5
Material Description: LIGHT BROWN SILTY SANDY CLAY.												
17141	9.00	150	LOT 1997 LOC ON ATT PLAN R.L.5.06	17141	-	-	13.5	Adj. 13.0	0.5 WET	2.13	Adj. 2.15	99.0
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY.												
17142	9.40	150	LOT 1993 LOC ON ATT PLAN R.L.4.62	17142	-	-	15.5	Adj. 15.0	0.5 WET	2.17	Adj. 2.15	101.0
Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY.												
17143	10.10	150	LOT 1995 LOC ON ATT PLAN R.L.4.38	17143	-	-	13.5	Adj. 14.0	0.5 DRY	2.18	Adj. 2.17	100.5
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:17/05/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43622
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	08/05/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17166 RETEST	10.30	150	LOT 2006 7m Front bdy, 3m Left bdy R.L.5.06	17166	-	-	15.5	Adj. 15.0	1.0 WET	2.14	Adj. 2.20	97.5
Material Description: GREY-BROWN SILTY SANDY CLAY.												
17167 RETEST	11.00	150	LOT 2005 8m Front bdy, 5m Left bdy R.L.5.17	17167	-	-	15.0	Adj. 12.5	2.5 WET	2.20	Adj. 2.28	96.5
Material Description: GREY-BROWN SILTY SANDY CLAY.												
17168 RETEST	11.40	150	LOT 2007 10m Front bdy, 4m Right bdy R.L.5.15	17168	-	-	12.5	Adj. 11.5	1.0 WET	2.23	Adj. 2.29	97.5
Material Description: GREY-BROWN SILTY SANDY CLAY.												
17169	12.10	150	LOT 2003 12m Front bdy, 2m Left bdy R.L.5.28	17169	-	-	13.0	Adj. 12.5	0.5 WET	2.17	Adj. 2.24	97.0
Material Description: GREY-BROWN SILTY SANDY CLAY.												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks: Tests 17166, 17167 & 17168 are retests for tests 17073, 17074 & 17072.

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: 17/05/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

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Date: 17/05/2019

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43624
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	09/05/2019	Tested by	JM LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17204 RETEST	10.30	150	LOT 2004 10m Front bdy, 3m Right bdy R.L.5.24	17204	-	-	13.0	Adj. 13.5	0.5 DRY	2.15	Adj. 2.21	97.5
Material Description: GREY-BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS												
17205	10.30	150	LOT 2002 11m Front bdy, 4m Left bdy R.L.5.19	17205	-	-	16.0	Adj. 13.5	2.5 WET	2.17	Adj. 2.19	99.0
Material Description: GREY-BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS												
17206	11.00	150	LOT 1991 LOC ON ATT PLAN R.L.4.57	17206	-	-	16.0	Adj. 17.0	1.0 DRY	2.16	Adj. 2.14	101.0
Material Description: LIGHT GREY-BROWN SILTY CLAY												
17207	11.00	150	LOT 1990 LOC ON ATT PLAN R.L.4.38	17207	-	-	16.0	Adj. 14.5	1.5 WET	2.15	Adj. 2.16	99.5
Material Description: GREY-BROWN SILTY SANDY CLAY												
								Adj.			Adj.	
Material Description:												
								Adj.			Adj.	
Material Description:												

Remarks: Test 17204 is a retest for test 17075.

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: 17/05/2019



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FIELD DENSITY CERTIFICATE

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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43738
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	14/05/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17236	11.30	150	LOT 2001 LOC ON ATT PLAN R.L.4.32	17236	-	-	14.5	13.5	Adj. 1.0 WET	2.12	Adj. 2.18	97.0
									Adj.		Adj.	
									Adj.		Adj.	
									Adj.		Adj.	
									Adj.		Adj.	
									Adj.		Adj.	
									Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 13/06/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: E MCGRANN

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FIELD DENSITY CERTIFICATE

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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43739
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	16/05/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17261	9.00	150	LOT 1988 LOC ON ATT PLAN R.L.4.08	17261	-	13.5	13.0	Adj. 0.5 WET	2.21	Adj. 2.20	100.5
Material Description: BROWN SILTY SANDY CLAY											
17262	9.30	150	LOT 1987 LOC ON ATT PLAN R.L.4.05	17262	-	12.0	14.5	Adj. 2.5 DRY	2.17	Adj. 2.11	103.0
Material Description: BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 13/06/2019



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FIELD DENSITY CERTIFICATE

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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43744
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	23/05/2019	Tested by	JM AC

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17342	9.30	150	LOT 1999 LOC ON ATT PLAN R.L.5.15	17342	-	-	13.5	13.5	Adj. -	2.19	Adj. 2.15	102.0
Material Description: BROWN SILTY SANDY CLAY												
17343	10.00	150	LOT 1998 LOC ON ATT PLAN R.L.5.20	17343	-	-	12.5	11.5	Adj. 1.0 WET	2.15	Adj. 2.19	102.0
Material Description: REDDISH-BROWN SANDY CLAY												
17344	10.30	150	LOT 1997 LOC ON ATT PLAN R.L.5.30	17344	-	-	13.0	15.0	Adj. 2.0 DRY	1.99	Adj. 2.08	95.5
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS												
17345	10.30	150	LOT 1996 LOC ON ATT PLAN R.L.5.29	17345	-	-	16.5	14.5	Adj. 2.0 WET	2.16	Adj. 2.14	101.0
Material Description: 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: 13/06/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43745
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	24/05/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17362	10.30	150	LOT 1991 LOC ON ATT PLAN R.L.5.04	17362	-	-	13.0	12.0	Adj. 1.0 WET	2.24	Adj. 2.20	102.0
Material Description: LIGHT REDDISH-BROWN SANDY CLAY.												
17363	11.00	150	LOT 1993 LOC ON ATT PLAN R.L.5.11	17363	-	-	12.5	11.5	Adj. 1.0 WET	2.20	Adj. 2.23	98.5
Material Description: LIGHT REDDISH-BROWN SANDY CLAY.												
17364	11.40	150	LOT 1995 LOC ON ATT PLAN R.L.5.36	17364	-	-	13.0	13.5	Adj. 0.5 DRY	2.16	Adj. 2.17	99.5
Material Description: LIGHT REDDISH-BROWN SANDY CLAY.												
17366	14.00	150	LOT 1989 LOC ON ATT PLAN R.L.4.87	17366	-	-	11.5	11.5	Adj. -	2.20	Adj. 2.25	98.0
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:17/06/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

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Date:17/06/2019

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FIELD DENSITY CERTIFICATE

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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43759
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	29/05/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17446	13.00	150	LOT 1958 4m Front bdy, 8m Left bdy R.L.5.80	17446	-	-	10.0	10.5	Adj. 0.5 DRY	2.16	Adj. 2.19	98.5
Material Description: BROWN SILTY SAND & ROCK FRAGMENTS.												
17447	13.30	150	LOT 1960 8m Rear bdy, 2m Right bdy R.L.5.75	17447	-	-	10.0	10.0	Adj. -	2.13	Adj. 2.21	96.5
Material Description: BROWN SILTY SAND & ROCK FRAGMENTS.												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date:17/06/2019



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43760
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	30/05/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17456	7.30	150	LOT 2000 LOC ON ATT PLAN R.L.4.75	17456	-	-	13.0	11.5	Adj. 1.5 WET	2.20	Adj. 2.17	101.5
Material Description: BROWN SILTY SANDY CLAY.												
17457	10.20	150	LOT 2000 LOC ON ATT PLAN R.L.5.25	17457	-	-	14.5	15.0	Adj. 0.5 DRY	2.12	Adj. 2.17	97.5
Material Description: LIGHT BROWN & GREY SILTY SANDY CLAY.												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date:17/06/2019



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FIELD DENSITY CERTIFICATE

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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43880
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	03/07/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17829	8.00	150	LOT 1961 7m Front bdy, 2m Left bdy R.L.5.92	17829	-	-	11.0	11.5	Adj. 0.5 DRY	2.20	Adj. 2.23	98.5
				Material Description: BROWN SILTY SANDY CLAY.								
17830	8.40	150	LOT 1962 11m Front bdy, 3m Left bdy R.L.5.99	17830	-	-	11.0	12.5	Adj. 1.5 DRY	2.16	Adj. 2.13	101.5
				Material Description: DARK REDDISH-BROWN SILTY SANDY CLAY.								
17831	9.15	150	LOT 1959 3m Rear bdy, 7m Left bdy R.L.5.78	17831	-	-	10.5	10.5	Adj. -	2.16	Adj. 2.23	97.0
				Material Description: 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:08/07/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

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Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43881
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	04/07/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17859	7.45	150	LOT 2001 10m Front bdy, 3m Right bdy R.L.5.19	17859	-	-	12.0	14.5	Adj. 2.5 DRY	2.05	Adj. 2.11	97.0
				Material Description: LIGHT GREY-BROWN SILTY SANDY CLAY.								
17860	8.20	150	LOT 1985 7m Front bdy, 2m Left bdy R.L.5.10	17860	-	-	15.0	14.5	Adj. 0.5 WET	2.13	Adj. 2.17	98.0
				Material Description: LIGHT BROWN SILTY SANDY CLAY.								
17861	8.55	150	LOT 1986 8m Front bdy, 4m Left bdy R.L.5.08	17861	-	-	11.5	14.0	Adj. 2.5 DRY	2.09	Adj. 2.17	96.5
				Material Description: LIGHT BROWN SILTY SANDY CLAY.								
17862	9.30	150	LOT 1987 7m Rear bdy, 2m Right bdy R.L.5.01	17862	-	-	15.0	15.5	Adj. 0.5 DRY	2.07	Adj. 2.14	96.5
				Material Description: LIGHT BROWN SILTY SANDY CLAY.								
17863	10.25	150	LOT 1988 6m Front bdy, 3m Left bdy R.L.4.93	17863	-	-	12.5	13.0	Adj. 0.5 DRY	2.17	Adj. 2.20	98.5
				Material Description: REDDISH-BROWN SANDY & FINE ROCK FRAGMENTS.								
17864	11.15	150	LOT 1994 10m Front bdy, 2m Right bdy R.L.5.40	17864	-	-	13.5	12.5	Adj. 1.0 WET	2.15	Adj. 2.18	98.5
				Material Description: LIGHT REDDISH-BROWN 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:08/07/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

RMc

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date:08/07/2019

Greg McGrann



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FIELD DENSITY CERTIFICATE

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

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43882
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	04/07/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis		Field Moisture Context %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
17865	11.40	150	LOT 1990 12m Front bdy, 3m Right bdy R.L.5.21	17865	-	-	14.0	13.0	Adj. 1.0 WET	2.17	Adj. 2.17	100.0
Material Description: BROWN SILTY SANDY CLAY.												
17866	13.10	150	LOT 1992 10m Front bdy, 2m Left bdy R.L.5.33	17866	-	-	14.0	14.5	Adj. 0.5 DRY	2.13	Adj. 2.10	101.5
Material Description: LIGHT BROWN SILTY SANDY CLAY.												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												
									Adj.		Adj.	
Material Description:												

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date:08/07/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Date:08/07/2019

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43933
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	22/07/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
18063	8.30	150	LOT 1941 5m Front bdy, 7m Left bdy R.L.5.20	18063	-	8.0	9.5	Adj. 1.5 DRY	2.20	Adj. 2.28	96.5
Material Description: BROWN SILTY SAND & FINE ROCK FRAGMENTS											
18064	9.00	150	LOT 1942 6m Front bdy, 4m Left bdy R.L.5.12	18064	-	7.0	8.0	Adj. 1.0 DRY	2.22	Adj. 2.27	98.0
Material Description: BROWN SILTY SAND & FINE ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 26/07/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Date: 26/07/2019

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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43934
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	25/07/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
18128	8.30	150	LOT 1944 3m Front bdy, 4m Left bdy R.L.5.09	18128	-	8.5	10.0	Adj. 1.5 DRY	2.19	Adj. 2.20	99.5
Material Description: BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS											
18129	9.00	150	LOT 1943 5m Front bdy, 3m Left bdy R.L.5.06	18129	-	11.5	11.5	Adj. -	2.25	Adj. 2.28	98.5
Material Description: BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 26/07/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Checked By: R MCGRANN

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Date: 26/07/2019

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43974
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	30/07/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
18189	7.30	150	LOT 1947 18m Rear bdy, 5m Right bdy R.L.5.22	18189	-	14.5	15.5	Adj. 1.0 DRY	2.09	Adj. 2.16	97.0
Material Description: BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS											
18190	8.00	150	LOT 1946 15m Rear bdy, 4m Left bdy R.L.5.18	18190	-	17.0	17.5	Adj. 0.5 DRY	2.09	Adj. 2.09	100.0
Material Description: BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
18191	8.45	150	LOT 1945 13m Rear bdy, 3m Left bdy R.L.5.14	18191	-	15.0	15.5	Adj. 0.5 DRY	2.03	Adj. 2.08	97.5
Material Description: BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
								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: 31/07/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: E MCGRANN

Greg McGrann/Manager

Approved Signatory

Date: 31/07/2019



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	43976
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 18A	Date Tested	01/08/2019	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
18227	7.30	150	LOT 1948 13m Front bdy, 4m Right bdy R.L.5.31	18227		12.5	14.5	Adj. 2.0 DRY	2.02	Adj. 2.04	99.0
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date:06/08/2019



Accredited for compliance with ISO/IEC 17025 – Testing.

Accreditation No.2415

Checked By: R MCGRANN

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Greg McGrann/Manager

Approved Signatory

Date:06/08/2019

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