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

13 April 2018

BMD Constructions Pty Ltd PO Box 197 WYNNUM CENTRAL QLD 4178

Attn Glen Fuller

RE: CAPESTONE ESTATE - STAGE 20A

(Allotment Fill – Geotechnical Inspection & Testing)

SCOPE

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

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

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

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on 26 October 2017 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff.

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

Ninety-six field density tests were carried between 26 October 2017 and 11 April 2018. These tests recorded Dry Density Ratios between 95.0% and 104.0% relative to the standard compaction test and field moisture contents within –3.5% and +3.0% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B37/11 (Report Nos. 41359, 41360, 41361, 41362, 41374, 41375, 41376, 41384, 41385, 41451, 41452, 41453, 41455, 41456, 41457, 41490, 41543, 41544, 42025, 41576, 41577, 41579, 41581, 41632 and 42026) provide full test data for the compaction control tests.

CONCLUSION

Based on the test results and site inspections, we conclude that the fill foundation is considered to comply with requirements of Table 5.1- Item 1 of AS3798-2007 and the project specifications.

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

GREG McGRANN

BRISBANE SOIL TESTING

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
CAPESTONE ESTATE – STAGE 20A

Feature ALLOTMENT FILL
Location SEE BELOW
Date Tested 26/10/2017

Report No. 41359 Job No. 1418 Tested by RW

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction NO	% Ov 19mm/3 Wet	ersize 37.5mm 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 %
11214	8.00	150	LOT 1935 4m Rear bdy, 3m Left bdy R.L.5.41	11214 Material Des	- cription:	- DARK	10.0 BROWN S	Adj. 12.5 LTY SANI	2.5 DRY DY CLAY	80.0	1.94	Adj. 1.96	99.0
11215	8.30	150	LOT 1936 4m Rear bdy, 2m Left bdy R.L.5.32	11215 Material Des	-	-	11.0	Adj. 13.0	2.0 DRY	84.5	1.89	Adj . 1.96	96.5
			K.L.J.J2	Waterial Des	cription.	LIGITI	OKE I -BK	Adj.	ISANDI	CLAT		Adj.	
				Material Des	cription:			Adj.				Adj.	
				Material Des	cription:			Adj.			<u> </u>	Adj.	
				Material Des	cription:			,				J	
								Adj.				Adj.	
Remarks:				Material Des	cription:				Regu	uired Dry De	encity Ratio	95% STF)
Test Procedu	ires: AS128	39 5.1.1,5.3.	1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm		Requ	unca Diy Do	Ziisity Katic	7 93 70 STL	,
Prepared By Date:1.11.17 Checked By:	1			NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	g <i>McGrann/I</i> roved Signat			<u></u>
спескеа ву:	K IVICGRAI	AIA F/	9	Accreditation No.2	2415					2:1.11.17	,		

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD Customer Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Project CAPESTONE ESTATE – STAGE 20A

Feature Location Date Tested 27/10/2017

ALLOTMENT FILL **SEE BELOW**

Report No. 41360 Job No. 1418 Tested by AC JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ov 19mm/3 Wet		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 %
11216	8.00	150	LOT 1845 3m Rear bdy, 3m Left bdy R.L.5.16	11216 Material Des	- cription:	- DARK	12.5 BROWN S	Adj. 15.0 LTY SANI	2.5 DRY DY GRAVE	83.5 LLY CLAY	1.87	Adj. 1.92	97.5
11217	8.00	150	LOT 1847 4m Rear bdy, 2m Right bdy R.L.4.47	11217 Material Des	- cription:	- DARK	11.5 GREY-BRO	Adj. 11.0 OWN SILT	0.5 WET Y SANDY (104.5 CLAY	1.94	Adj . 2.02	96.0
11218	8.30	150	LOT 1849 3m Rear bdy, 2m Left bdy R.L.4.41	11218 Material Des	- ecription:	- LIGHT	10.0 BROWN S	Adj. 11.5 ILTY SAN	1.5 DRY DY CLAY &	87.0 E FINE ROO	2.05	Adj. 2.02 MENTS	101.5
11219	8.30	150	LOT 1849 2m Rear bdy, 3m Left bdy R.L.4.83	11219 Material Des	-	-	8.5	Adj. 8.0	0.5 WET	106.5	2.08	Adj. 2.08	100.0
11220	9.00	150	LOT 1850 5m Rear bdy, 4m Left bdy R.L.4.20	11220 Material Des	-	-	9.0	Adj. 9.5	0.5 DRY	94.5	2.06	Adj. 2.07	99.5
11221	9.00	150	LOT 1846 5m Rear bdy, 3m Left bdy R.L.4.43	11221 Material Des	-	-	10.5	Adj. 10.5	-	100.0	1.98	Adj. 2.04	97.0
Remarks:									Requ	iired Dry De	ensity Ratio	95% STE)
Prepared By Date:1.11.17 Checked By:	G MCGRA	INN	1, 5.4.1, 2.1.1	NATA Accreditation No.	Accredite		than 19mm	EC 17025 – Testi	Appr	McGrann/Noved Signat:1.11.17	- ,) Sect Sect	<i>D</i>

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Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
CAPESTONE ESTATE – STAGE 20A

Feature ALLOTMENT FILL
Location SEE BELOW
Date Tested 27/10/2017

Report No. 41361 Job No. 1418 Tested by JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction NO	% Ov 19mm/3 Wet		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 %
			LOT 1853					Adj .	1.0			Adj.	
11229	9.30	150	5m Rear bdy, 3m Left bdy	11229	-	-	10.5	11.5	DRY	91.5	1.90	1.97	96.5
			R.L.3.55	Material Des	cription:	BROW	N SILTY SA	ANDY CLA	Υ				
			LOT 1851					Adj.	0.5			Adj .	
11230	10.00	150	4m Rear bdy, 3m Left bdy	11230	-	-	14.0	13.5	WET	103.5	1.82	1.89	96.5
			R.L.4.07	Material Des	cription:	BROW	N SILTY SA	ANDY CLA					
			LOT 1848					Adj.	0.5			Adj.	
11231	10.30	150	7m Rear bdy, 4m Right bdy	11231	-	-	8.0	7.5	WET	106.5	2.10	2.09	100.5
			R.L.4.32	Material Des	cription:	GREY-	BROWN SI	7)	1		Ť	
								Adj.				Adj.	
				Material Des	cription:			<u> </u>		<u>I</u>	<u> </u>	<u> </u>	
								Adj.				Adj.	
				Material Des	cription:						<u>. </u>		
					1			Adj.				Adj.	
				Material Des	cription:								
Remarks:									Reat	iired Dry De	ensity Ratio	95% STD)
Test Procedu	ires: AS128	39 5.1.1,5.3	.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm						
Prepared By:	: G MCGRA	NN											
Date:1.11.17	•	0		NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	McGrann/I		Judos tol	2
Checked By:		1-1	<u>Q</u>	Accreditation No.2	2415					:1.11.17		-	

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

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

Email. brissoil@bigpond.net.au

Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
Project CAPESTONE ESTATE – STAGE 20A

Feature ALLOTMENT FILL
Location SEE BELOW
Date Tested 28/10/2017

Report No. 41362 Job No. 1418 Tested by JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ov 19mm/3 Wet	ersize 37.5mm 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 %
11232	8.00	150	LOT 1852 6m Rear bdy, 3m Right bdy	11232	_		13.0	Adj . 14.5	1.5 DRY	89.5	1.91	Adj. 1.93	99.0
11232	0.00	130	R.L.3.75	Material Des	crintion:	LIGHT		- 110			1		77.0
			LOT 1849	Whaterian Des		LIGITI	ORANGE-DI	Adj.	2.5	I	I I KA KOMI	Adj.	
11233	8.30	150	7m Rear bdy, 3m Left bdy	11233	_	_	12.0	14.5	DRY	82.5	1.80	1.98	91.0
11233	0.50	150	R.L.5.35	Material Des	cription:	LIGHT							71.0
			LOT 1847	Winterfair Bes		LIGITI	OR HVOL BI	Adj.	1.5	l a noc		Adj.	
11234	9.00	150	5m Rear bdy, 2m Right bdy	11234	_	_	13.0	14.5	DRY	89.5	1.90	1.93	98.5
	,,,,		R.L.4.95	Material Des	cription:	BROW	N SILTY S.			FRAGME	NTS		7010
			LOT 1845					Adj.	0.5			Adj.	
11235	9.30	150	6m Rear bdy, 3m Left bdy	11235	_	-	13.5	14.0	DRY	96.5	1.90	1.91	99.5
			R.L.5.62	Material Des	cription:	BROW	N SILTY C	LAY & RO	CK FRAGM	IENTS	II.		
								Adj.				Adj.	
				Material Des	ominti on .								
				Material Des	сприоп:	I		Adj.			ľ	Adj.	
								Auj.				Auj.	
				Material Des	cription:						<u> </u>		
Remarks:					<u> </u>				Requ	ired Dry De	ensity Ratio	95% STD)
Test Procedu	ires: AS128	39 5.1.1,5.3	.1, 5.4.1, 2.1.1	Determined	on mater	ial finer	than 19mm			<i>y</i>	<u>, , , , , , , , , , , , , , , , , , , </u>		
Prepared By Date:1.11.17		ANN		NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	McGrann/N		00	0
Checked By:	R MCGRA	NN RV	le	Accreditation No.2	2415					oved Signat :1.11.17	ory	100 tcl</td <td>a</td>	a

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD Customer PO BOX 197, WYNNUM CENTRAL OLD 4178 Address **Project** CAPESTONE ESTATE - STAGE 20A

Feature Location Date Tested ALLOTMENT FILL SEE BELOW 30/10/2017

Report No. 41374 Job No. 1418 Tested by JM JC

Field Field Optimum Moisture Moisture Field Max. Dry Time Depth % Oversize Lab Moisture 19mm/37.5mm Moisture Variation Ratio Dry of of Test Location Drv Density Test No Compaction Content Density Content Density Ratio Test Test Sample No % No Wet Dry t/m^3 mm t/m^3 LOT 1940 Adi. Adi. 1.5 8.00 15.5 DRY 11241 150 3m Rear bdy, 4m Left bdy 11241 14.0 90.5 1.84 1.87 98.5 Material Description: REDDISH-BROWN SILTY CLAY R.L.4.94 LOT 1939 Adj. 2.0 Adi. 2m Rear bdy, 4m Right bdy 11242 16.5 DRY 11242 8.00 150 14.5 88.0 1.78 1.82 98.0 Material Description: REDDISH-BROWN SILTY CLAY R.L.5.32 LOT 1938 Adi. Adi. 0.5 11243 8.30 150 11243 14.0 14.5 DRY 96.5 1.79 1.88 95.0 3m Rear bdy, 4m Left bdy Material Description: BROWN SILTY SANDY CLAY R.L.5.35 LOT 1937 0.5 Adj. 11244 8.30 150 2m Rear bdy, 3m Left bdy 11244 14.0 14.5 DRY 96.5 1.81 1.91 95.0 Material Description: DARK RED SILTY SANDY CLAY & ROCK FRAGMENTS R.L.5.43 LOT 1936 Adj. Adj. 2m Rear bdy, 2m Right bdy 11245 9.00 150 11245 15.0 15.0 100.0 1.68 1.85 91.0 Material Description: REDDISH-BROWN SILTY CLAY R.L.5.64 LOT 1935 Adj. Adj. 0.5 9.00 11246 15.5 WET 103.5 11246 150 5m Rear bdy, 2m Left bdy 15.0 1.72 1.90 90.5 Material Description: BROWN SILTY GRAVELLY CLAY R.L.5.72

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:3.11.17 Checked By: R MCGRANN

ΝΔΤΔ Accredited for compliance with ISO/IEC 17025 - Testing.

Determined on material finer than 19mm

Accreditation No.2415

Approved Signatory

Grea McGrann/Manager Date:3.11.17

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
CAPESTONE ESTATE – STAGE 20A

Feature Al Location SE Date Tested 30

ALLOTMENT FILL SEE BELOW 30/10/2017 Report No. 41375 Job No. 1418 Tested by JM JC

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ov 19mm/3 Wet		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 %
11247	9.30	150	LOT 1934 2m Rear bdy, 2m Right bdy R.L.5.89	11247 Material Des	- cription:	- BROW	12.5 N SILTY G	Adj. 13.5 RAVELLY	1.0 DRY CLAY	92.5	1.76	Adj. 1.90	92.5
11248	9.30	150	LOT 1840 3m Rear bdy, 2m Left bdy R.L.5.33	11248 Material Des	- cription:	- DARK	8.0 BROWN SA	Adj. 8.5 ANDY CLA	0.5 DRY	94.0	1.98	Adj. 2.07	96.0
11249	10.00	150	LOT 1839 5m Rear bdy, 2m Left bdy R.L.5.10	11249 Material Des	- cription:	- DARK	11.0 BROWN SI	A dj. 11.5 LTY SANI	0.5 DRY DY CLAY	95.5	1.98	Adj. 2.00	99.0
11250	10.00	150	LOT 1838 4m Rear bdy, 3m Right bdy R.L.4.75	11250 Material Des		- PROW	12.0	Adj. 14.5	2.5 DRY	82.5	1.79	Adj. 1.86	96.0
11251	10.30	150	LOT 1837 2m Rear bdy, 2m Left bdy R.L.4.54	11251 Material Des	-	-	15.5	Adj. 14.0	1.5 WET	110.5	1.80	Adj. 1.88	95.5
11266	11.00	150	LOT 1838 7m Rear bdy, 2m Left bdy R.L.5.25	11266 Material Des	- cription:	- DARK	13.5 BROWN SI	A dj. 15.0 LTY CLAY	1.5 DRY	90.0	1.78	Adj. 1.86	95.5
Remarks:									Requ	iired Dry De	ensity Ratio	95% STD)
Prepared By Date:3.11.17 Checked By:	: G MCGRA	INN	1, 5.4.1, 2.1.1	NATA Accreditation No.	Accredite		than 19mm	EC 17025 – Testi	Appr	McGrann/N oved Signat :3.11.17	- ,	1100 lcl	<i>Q</i>

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

FIELD DENSITY CERTIFICATE

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

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Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
CAPESTONE ESTATE – STAGE 20A

Feature ALLOTMENT FILL
Location SEE BELOW
Date Tested 30/10/2017

Report No. 41376 Job No. 1418 Tested by JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test	Test Location	Lab Compaction No	% Ov 19mm/3 Wet	ersize 37.5mm Dry	Field Moisture Content	Optimum Moisture Content %	Moisture Variation %	Moisture Ratio %	Field Dry Density	Max. Dry Density	Dry Density Ratio
1		mm		111	vv Ct	Diy	%				t/m ³	t/m ³	%
110.57	44.00	4.50	LOT 1839	110.5			10.0	Adj.	1.5	00.5		Adj.	0.5
11267	11.30	150	6m Rear bdy, 2m Left bdy	11267	-	-	19.0	20.5	DRY	92.5	1.61	1.67	96.5
			R.L.5.63	Material Des	cription:	REDDI	SH-BROW.			AY		l 4 1:	
	4.00	4.70	LOT 1838					Adj.	1.5			Adj.	
11268	12.00	150	8m Rear bdy, 3m Left bdy	11268	<u> </u>	-	21.0	22.5	DRY	93.5	1.56	1.62	96.5
			R.L.5.77	Material Des	cription:	REDDI	SH-BROW.			AY	_		
		4.70	LOT 1837					Adj.	2.0			Adj.	
11269	12.30	150	5m Rear bdy, 2m Right bdy	11269		-	19.5	21.5	DRY	90.5	1.69	1.66	102.0
			R.L.5.05	Material Des	cription:	REDDI	SH-BROW		SILTY CLA	AY		1	
								Adj.				Adj.	
				Material Des	cription:						<u> </u>		
								Adj.				Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:								
Remarks:									Requ	aired Dry De	ensity Ratio	95% STD)
Test Procedu	ires: AS128	39 5.1.1,5.3	.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm			<u>, </u>	•		
Prepared By: Date:3.11.17	: G MCGRA			NATA	Accredite	ed for compl	iance with ISO/II	EC 17025 – Testi	Greg	McGrann/I		000	0
Checked By:	R MCGRAI	1-11	le .	Accreditation No.2	2415					oved Signat :3.11.17	ory	2 /180 / W	

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

FIELD DENSITY CERTIFICATE

1/11/2017

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

Email. brissoil@bigpond.net.au

Customer Address Project

BMD CONSTRUCTIONS PTY LTD PO BOX 197, WYNNUM CENTRAL QLD 4178

CAPESTONE ESTATE – STAGE 20A

Feature Location

Date Tested

ALLOTMENT FILL **SEE BELOW**

Report No. 41384 Job No. Tested by

1418 JC JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction NO	% Ov 19mm/3 Wet		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 %
11279	8.00	150	LOT 1854 4m Rear bdy, 2m Right bdy R.L.3.44	11279 Material Des	- cription:	- BROW	16.0 N SILTY SA	Adj. 13.0 ANDY CLA	3.0 WET	123.0	1.82	Adj. 1.90	96.0
11280	8.00	150	LOT 1852 7m Rear bdy, 3m Left bdy R.L.4.40	11280 Material Des	-	-	16.0	Adj. 14.0	2.0 WET	114.5	1.81	Adj . 1.89	96.0
11281	8.30	150	LOT 1850 5m Rear bdy, 2m Right bdy R.L.4.78	11281 Material Des	-	-	15.0	Adj. 13.0	2.0 WET	115.5 Y CLAY.	1.83	Adj . 1.91	96.0
11282	8.30	150	LOT 1854 6m Rear bdy, 3m Left bdy R.L.4.13	11282 Material Des	-	-	13.5	Adj . 13.0	0.5 WET	104.0	1.89	Adj. 1.89	100.0
11283	9.00	150	LOT 1853 6m Rear bdy, 3m Right bdy R.L.4.10	11283 Material Des	-	-	15.5	Adj . 14.5	1.0 WET	107.0	1.82	Adj . 1.86	98.0
11284	9.00	150	LOT 1851 7m Rear bdy, 3m Left bdy R.L.4.72	11284 Material Des	-	-	14.5	Adj . 14.0	0.5 WET	103.5	1.86	Adj . 1.87	99.5
Remarks:					•				Requ	ired Dry De	ensity Ratio	95% STD)
Prepared By Date:8.11.17 Checked By:	G MCGRA	ANN	3.1, 5.4.1, 2.1.1	Determined of Accreditation No.	Accredite		than 19mm	GC 17025 – Testi	Appr	<i>McGrann/N</i> oved Signat :8.11.17	,	<i>P</i> 00 10 10 10 10 10 10 1	<i>O</i>

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

FIELD DENSITY CERTIFICATE

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Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
Project CAPESTONE ESTATE – STAGE 20A

Feature ALLOTMENT FILL
Location SEE BELOW
Date Tested 1/11/2017

Report No. 41385 Job No. 1418 Tested by JC JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction No	% Ov 19mm/3 Wet		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 %
11285	9.30	150	LOT 1848 5m Rear bdy, 4m Left bdy R.L.4.90	11285 Material Des	- cription:	- LIGHT	15.0 ORANGE-	Adj. 14.0 BROWN SI	1.0 WET LTY SAND	107.0 OY CLAY.	1.88	Adj. 1.88	100.0
11286	9.30	150	LOT 1846 8m Rear bdy, 2m Right bdy R.L.4.96	11286 Material Des	- cription:	- LIGHT	13.5 ORANGE-	Adj. 13.5 BROWN SI	- LTY SANI	100.0 DY CLAY.	1.94	Adj . 1.91	101.5
11287	10.00	150	LOT 1853 9m Rear bdy, 3m Right bdy R.L.4.69	11287 Material Des	- cription:	- LIGHT	13.5 ORANGE-	Adj. 12.0 BROWN SI	1.5 WET LTY SAND	112.5 OY CLAY.	1.94	Adj . 1.93	100.5
11288	10.00	150	LOT 1854 9m Rear bdy, 3m Left bdy R.L.4.68	11288 Material Des	-	-	14.5	Adj . 14.0	0.5 WET	103.5	1.89	Adj. 1.91	99.0
			K.L.4.00		•		OKANGE-	Adj.	LITSANI	CLAT.		Adj.	
				Material Des	cription:			Adj.				Adj.	
Remarks:				Material Des	cription:					•	Į.	ı	
									Requ	uired Dry De	ensity Ratio	95% STE)
Prepared By Date:8.11.17 Checked By:	: G MCGRA	NN RN	.1, 5.4.1, 2.1.1	NATA Accreditation No.2	Accredite		than 19mm	EC 17025 – Testi	App	<i>McGrann/N</i> roved Signat ::8.11.17		Sues tel	<i>D</i>

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

Customer BMD CONSTRUCTIONS PTY LTD Feature

Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Location

Project CAPESTONE ESTATE – STAGE 20A Date Tested

eature ALLOTMENT FILL SEE BELOW atte Tested 6/11/2017

Report No. 41451 Job No. 1418 Tested by JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction NO	% Ov 19mm/3 Wet	ersize 37.5mm 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 %
11405	9.00	150	LOT 1872 6m Rear bdy, 4m Left bdy R.L.10.60	11405 Material Des	- cription:	- DARK	9.0 BROWN SA	Adj. 9.5 ANDY CLA	0.5 DRY	94.5	1.92	Adj. 2.02	95.0
11406	9.30	150	LOT 1871 4m Rear bdy, 2m Right bdy R.L.10.17	11406 Material Des	- cription:	- LIGHT	14.0 BROWN S	Adj. 14.5 ILTY CLA	0.5 DRY Y.	96.5	1.70	Adj . 1.87	91.0
11407	10.00	150	LOT 1870 2m Rear bdy, 2m Right bdy R.L.9.61	11407 Material Des	- cription:	- GREY-	16.5 BROWN SI	Adj. 19.5 ILTY CLAY	3.0 DRY	84.5	1.54	Adj . 1.70	90.5
11408	10.30	150	LOT 1869 3m Rear bdy, 2m Right bdy R.L.9.28	11408 Material Des	-	-	17.5	Adj . 18.5	1.0 DRY	94.5	1.58	Adj. 1.71	92.5
			K.L.7,20		•		KEDDISIT	Adj.	OKET SIE	LATE CLAT.		Adj.	
				Material Des	cription:	T	1		1	1			
								Adj.				Adj.	
				Material Des	cription:								
Remarks:									Requ	iired Dry De	ensity Ratio	95% STE)
Test Procedu	ires: AS128	39 5.1.1,5.3	.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm						
Prepared By Date:20.11.1	.7			NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	McGrann/I	- ,	// // // // // // // // // // // // //	
Checked By:	R MCGRAI	NN KII	le	Accreditation No.2	2415					oved Signat :20.11.17	cory	_ 1,600, 40(

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

FIELD DENSITY CERTIFICATE

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

41452

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD Customer Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Project CAPESTONE ESTATE – STAGE 20A

Feature Location Date Tested

ALLOTMENT FILL **SEE BELOW** 7/11/2017

Report No. Job No. 1418 Tested by JM LM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ove 19mm/3 Wet		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 %
11427	8.00	150	LOT 1868 3m Rear bdy, 3m Right bdy R.L.9.03	11427 Material Des	- cription:	- REDDI	17.5 SH-BROW	Adj. 14.5 V & GREY	3.0 WET SILTY CLA	120.5	1.61	Adj. 1.69	95.5
11428	8.00	150	LOT 1867 4m Rear bdy, 4m Left bdy R.L.8.70	11428 Material Des	-	-	18.5	Adj. 17.5	1.0 WET	105.5	1.57	Adj . 1.70	92.5
11429	8.30	150	LOT 1866 2m Rear bdy, 4m Right bdy R.L.8.51	11429 Material Des	-	-	18.5	Adj. 18.5	-	100.0	1.57	Adj. 1.70	92.5
11430	8.30	150	LOT 1865 3m Rear bdy, 3m Right bdy	11430	-	-	14.5	Adj. 17.0	2.5 DRY	85.5	1.67	Adj. 1.75	95.5
11431	9.00	150	R.L.8.26 LOT 1864 5m Rear bdy, 2m Left bdy R.L.8.19	Material Des 11431 Material Des	-	-	14.5	Adj. 16.5	2.0 DRY	88.0	1.69	Adj. 1.65	100.0
11432	9.00	150	LOT 1863 7m Rear bdy, 3m Left bdy R.L.8.03	11432 Material Des	-	-	14.0	Adj. 15.0	1.0 DRY	93.5	1.64	Adj. 1.83	89.5
Remarks:									Requ	iired Dry De	ensity Ratio	95% STD)
Prepared By Date:20.11.1 Checked By:	G MCGRA 7	ANN	1, 5.4.1, 2.1.1	NATA Accreditation No.	Accredited		than 19mm	C 17025 – Testi	Appr	<i>McGrann/N</i> oved Signat :20.11.17	- ,	1 des tels	0

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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647
Geotechnical Testing Services

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD ALLOTMENT FILL Report No. Customer Feature 41453 Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Location **SEE BELOW** Job No. 1418 Tested by Project CAPESTONE ESTATE – STAGE 20A Date Tested 7/11/2017 LM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ov 19mm/3 Wet		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 %
			LOT 1862					Adj.	2.0			Adj.	
11433	9.30	150	7m Rear bdy, 4m Left bdy	11433	-		19.0	17.0	WET	112.0	1.73	1.77	97.5
			R.L.7.92	Material Des	cription:	REDDI	SH-BROW		SILTY CL	AY	1	A 4:	
								Adj.				Adj.	
				Material Des	cription:					l			
					1			Adj.				Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:					ļ		Į.	
								Adj.				Adj.	
				Material Des	cription:		<u> </u>	<u> </u>		1	<u>.</u>	<u>l</u>	
								Adj.				Adj.	
				Material Des	cription:								
Remarks:				•	•				Page	uired Dry De	ncity Datic	05% STF	
Test Procedu	ires: AS128	3951153	1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm		Req	uned Dry De	nsity Katic	7 7 3 70 SIL	<u>'</u>
Prepared By Date:20.11.1	: G MCGRA .7	ANN		NATA			iance with ISO/IF	EC 17025 – Testi	Greg	n McGrann/l		/ / / / / / / / / / / / / / / / / / /	0
Checked By:	R MCGRA	NN KW	le	Accreditation No.2	2415					roved Signat e:20.11.17	ory	2/180/100	

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FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD Customer Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Project CAPESTONE ESTATE – STAGE 20A

Feature Location Date Tested

ALLOTMENT FILL **SEE BELOW** 8/11/2017

Report No. 41455 Job No. Tested by

1418 LM JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ov 19mm/3 Wet		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 %
11444	8.00	150	LOT 1861 10m Rear bdy, 3m Left bdy R.L.7.73	11444 Material Des	- cription:	- LIGHT	13.0 REDDISH-	Adj. 15.0 BROWN S	2.0 DRY ILTY CLAY	86.5 7 & ROCK	1.83 FRAGMEN	A dj. 1.85 NTS	99.0
11445	8.00	150	LOT 1860 10m Rear bdy, 2m Right bdy R.L.7.30	11445 Material Des	- cription:	- GREY-	16.0 BROWN SI	Adj. 16.5 LTY SANI	0.5 DRY DY CLAY	97.0	1.82	Adj . 1.77	103.0
11446	8.30	150	LOT 1859 9m Rear bdy, 3m Right bdy R.L.6.72	11446 Material Des	- cription:	- LIGHT	15.0 BROWN S	Adj. 14.5 ILTY CLA`	0.5 WET Y	103.5	1.89	Adj. 1.84	102.5
11447	8.30	150	LOT 1858 7m Rear bdy, 3m Right bdy R.L.6.31	11447 Material Des	-	-	14.5	Adj. 13.0	1.5 WET	111.5	1.79	Adj. 1.88	95.0
11448	9.00	150	LOT 1857 6m Rear bdy, 3m Right bdy R.L.5.86	11448 Material Des	-	-	12.0	Adj. 16.5	4.5 DRY	72.5	1.64	Adj. 1.79	91.5
11449	9.00	150	LOT 1856 5m Rear bdy, 2m Right bdy R.L.5.69	11449 Material Des	- cription:	- LIGHT	16.5 BROWN S	A dj. 14.5 ILTY SANI	2.0 WET DY CLAY	114.0	1.78	Adj. 1.84	96.5
Remarks:									Requ	iired Dry De	ensity Ratio	95% STD)
Prepared By: Date:20.11.1 Checked By:	G MCGRA 7	INN	1, 5.4.1, 2.1.1	Determined of NATA Accreditation No.3	Accredite		than 19mm	EC 17025 – Testi	Appr	McGrann/Noved Signat	- ,) See tel	<i>O</i>

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

FIELD DENSITY CERTIFICATE

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

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BMD CONSTRUCTIONS PTY LTD ALLOTMENT FILL Report No. Customer Feature 41456 Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Location **SEE BELOW** Job No. 1418 Project CAPESTONE ESTATE – STAGE 20A Date Tested 8/11/2017 Tested by LM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction No	% Ov 19mm/3 Wet	ersize 37.5mm 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 %
44470		4.50	LOT 1855					Adj.	1.5			Adj.	
11450	9.30	150	5m Rear bdy, 5m Right bdy	11450	-	- CDEX	17.5	16.0	WET	109.5	1.76	1.80	98.0
			R.L.5.50	Material Des	cription:	GREY-	BROWN SI	Adj.	OY CLAY			Adj.	
								ruj.				riaj.	
				Material Des	cription:					1	1		
								Adj.				Adj.	
				Material Description:									
								Adj.				Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:					<u> </u>	<u>l</u>		
								Adj.				Adj.	
D 1				Material Des	cription:								
Remarks:									Req	uired Dry De	ensity Ratio	95% STE)
Test Procedu	res: AS128	39 5.1.1,5.3.	1, 5.4.1, 2.1.1	Determined on material finer than 19mm									
Prepared By: Date:20.11.1	st Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1 epared By: <i>G MCGRANN</i> te:20.11.17				Accredite	ed for compl	iance with ISO/II	EC 17025 – Testi	ng. Greg	g McGrann/N	Manager ,	00	0
Checked By:		131	le	Accreditation No.2	2415					roved Signat e:20.11.17	ory (<u> </u>	a

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
Project CAPESTONE ESTATE – STAGE 20A

Feature ALLOTMENT FILL Location SEE BELOW Date Tested 9/11/2017

Report No. 41457 Job No. 1418 Tested by JM LM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction NO		ersize 37.5mm 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 %
11467 RETEST	10.45	150	LOT 1936 3m Rear bdy, 3m Right bdy R.L.5.60	11467 Material Des	- cription:	- BROW	13.0 N SILTY SA	Adj. 14.5 ANDY CLA	1.5 DRY AY & ROCK	89.5	1.87	Adj. 1.88	99.5
11468 RETEST	10.45	150	LOT 1935 3m Rear bdy, 3m Left bdy R.L.5.74	11468 Material Des	-	-	12.0	Adj. 14.5	2.5 DRY	83.0	1.89	Adj . 1.89	100.0
11469 RETEST	11.15	150	LOT 1934 3m Rear bdy, 2m Right bdy R.L.5.86	11469 Material Des	-	-	10.0	Adj. 12.5	2.5 DRY	80.0	1.94	Adj. 1.97	98.5
11470	11.15	150	LOT 1933 1m Rear bdy, 2m Left bdy R.L.5.78	114701 Material Des	-	- PROW	10.5	Adj. 14.0	3.5 DRY	75.0	1.90	Adj. 1.91	99.5
			K.L.J./0	Waterial Des	cription.	BROW	N SILT I SA	ANDT CLA	XI & ROCE	FRAGME	NIS	Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:								
Remarks: T	ests 11467,	, 11468 & 1	1469 are retests for tests 11245	,					Req	uired Dry De	ensity Ratio	95% STE)
Test Procedu	ires: AS128	39 5.1.1,5.3.	.1, 5.4.1, 2.1.1	Determined on material finer than 19mm									
Date:20.11.1	Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1 pred By: <i>G MCGRANN</i> 20.11.17			NATA	Accredite	ed for compl	iance with ISO/II	EC 17025 – Testi	Greg	g <i>McGrann/I</i> roved Signat	- ,) Sec. W.	0
Checked By:	R MCGRAI	NN KII	9	Accreditation No.2	2415					e:20.11.17	.01 y		

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD Feature ALLOTMENT FILL Report No. Customer 41490 Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Location **SEE BELOW** Job No. 1418 Tested by Project CAPESTONE ESTATE – STAGE 20A Date Tested 25/11/2017 JC

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O		ersize 37.5mm 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 %
11720 RETEST	8.00	150	LOT 1849 6m Rear bdy, 4m Left bdy R.L.5.32	11720 Material Des	- cription:	- LIGHT	13.5 BROWN S	Adj. 13.0 ILTY SAN	0.5 WET DY CLAY	104.0 & FINE RO	1.90 CK FRAGN	Adj. 1.96 MENTS	97.0
					•			Adj.				Adj.	
				Material Des	cription:			1		1	1		
					1			Adj.				Adj.	
				Material Des	cription:	<u> </u>							
								Adj.				Adj.	
				Material Des	cription:								
				Waterial Bes				Adj.				Adj.	
				Material Des	cription:					<u> </u>			
					1			Adj.				Adj.	
				Material Des	cription:	<u> </u>							
Remarks: T	est 11720 i	s a retest fo	or test 11233.		<u> </u>				Reg	uired Dry De	ensity Ratio	95% STD)
Test Procedu	ires: AS128	39 5.1.1,5.3.	1, 5.4.1, 2.1.1	Required Dry Density Ratio 95% STD Determined on material finer than 19mm									
Date:27.11.1					Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	g McGrann/l		00	0
Checked By:	R MCGRAI	NN KW	le e	Accreditation No.2	2415					roved Signat e:27.11.17	ory	∠µ2010(a

Brisbane Soil Testing 20/1191 Anzac Ave

Kallangur Q 4503 Ph.(07) 3285 6536

FIELD DENSITY CERTIFICATE

28/11/2017

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

Email. brissoil@bigpond.net.au

Customer Address Project

BMD CONSTRUCTIONS PTY LTD PO BOX 197, WYNNUM CENTRAL QLD 4178

CAPESTONE ESTATE – STAGE 20A

Feature Location

Date Tested

ALLOTMENT FILL SEE BELOW

Report No. Job No.

41543 1418

Tested by JM AC JC

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ov 19mm/3 Wet		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 %
11749 RETEST	8.30	150	LOT 1867 5m Rear bdy, 4m Left bdy R.L.8.67	11749 Material Des	- cription:	- REDDI	17.5 SH-BROW	Adj. 18.5 N SILTY C	1.0 DRY LAY & ROO	94.5 CK FRAGM	1.78 ENTS.	Adj. 1.75	101.5
11750 RETEST	8.30	150	LOT 1866 3m Rear bdy, 3m Right bdy R.L.8.50	11750 Material Des	- cription:	- LIGHT	15.0 REDDISH-	Adj. 16.5 BROWN S	1.5 DRY ILTY CLAY	91.0	1.80	Adj . 1.73	104.0
11751 RETEST	8.30	150	LOT 1863 6m Rear bdy, 3m Left bdy R.L.8.06	11751 Material Des	- cription:	- REDDI	15.5 SH-BROW	Adj. 15.5 N & GREY	- SILTY CLA	100.0 Y.	1.82	Adj . 1.82	100.0
11752	9.00	150	LOT 1853 11m Rear bdy, 3m Left bdy R.L.5.17	11752 Material Des	-	-	12.0	Adj. 13.0	1.0 DRY	92.5	1.92	Adj. 1.91	100.5
11753	9.00	150	LOT 1852 9m Rear bdy, 3m Right bdy R.L.4.91	11753 Material Des	-	-	13.0	Adj . 12.5	0.5 WET	104.0	1.91	Adj. 1.86	102.5
11754	9.00	150	LOT 1837 6m Rear bdy, 3m Right bdy R.L.5.59	11754 Material Des	-	-	13.0	Adj . 12.0	1.0 WET	108.5	1.95	Adj. 1.92	101.5
Remarks: To	ests 11749,	11750 & 1	1751 are retests for tests 11428	s, 11429 & 114	132.				Requ	ired Dry De	ensity Ratio	95% STD)
Prepared By: Date:4.12.17 Checked By:	G MCGRA	INN	.1, 5.4.1, 2.1.1	Determined of Accreditation No.	Accredite		than 19mm	EC 17025 – Testi	Appr	McGrann/N oved Signat 4.12.17		1 de la	2

Brisbane Soil Testing 20/1191 Anzac Ave

Kallangur Q 4503 Ph.(07) 3285 6536

FIELD DENSITY CERTIFICATE

28/11/2017

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

Email. brissoil@bigpond.net.au

Customer Address Project

BMD CONSTRUCTIONS PTY LTD PO BOX 197, WYNNUM CENTRAL QLD 4178

CAPESTONE ESTATE – STAGE 20A

Feature Location Date Tested

ALLOTMENT FILL SEE BELOW

Report No. 41544 Job No. Tested by

1418 JC JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ov 19mm/3 Wet	ersize 37.5mm 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 %
11755	9.30	150	LOT 1844 7m Rear bdy, 2m Left bdy	11755	_	_	16.0	Adj . 17.0	1.0 DRY	94.0	1.75	Adj. 1.79	97.5
	, , ,		R.L.5.37	Material Des	cription:	REDDI	SH-BROW	N SILTY C		,			
11756	9.30	150	LOT 1843 5m Rear bdy, 1m Right bdy	11756	-	-	14.5	Adj. 14.5	-	100.0	1.82	Adj . 1.86	98.0
			R.L.5.52	Material Des	cription:	LIGHT	REDDISH-	BROWN S	ILTY SANI	OY CLAY.			
11757	10.00	150	LOT 1837 8m Rear bdy, 2m Left bdy	11757	-	-	15.0	Adj. 16.0	1.0 DRY	94.0	1.83	Adj . 1.81	101.0
			R.L.6.02	Material Des	cription:	LIGHT	REDDISH	BROWN S	ILTY SANI	OY CLAY.			
								Adj.				Adj.	
				Material Des	cription:		ı					ı	
								Adj.				Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:								
Remarks:									Requ	iired Dry De	ensity Ratio	95% STE)
Test Procedu	res: AS128	39 5.1.1 <u>,</u> 5.3	3.1, 5.4.1, 2.1.1	Determined	on mater	ial finer	than 19mm				•		
Prepared By Date: 4.12.17		ANN		NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	^{ing.} Grea	McGrann/N	<i>M</i> anager	00	
Checked By:	R MCGRAI	NN RN	le	Accreditation No.	2415				Appr	oved Signat :4.12.17	ory	Zielo (c)	A

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD Customer Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Project CAPESTONE ESTATE – STAGE 20A

Feature Location Date Tested

ALLOTMENT FILL SEE BELOW 7/12/2017

Report No. 42025 Job No. Tested by

1418 JM LM

Field Test NO	Time of Test	Depth of Test	Test Location	Lab Compaction		37.5mm	Field Moisture Content	Optimum Moisture Content	Moisture Variation %	Moisture Ratio %	Field Dry Density	Max. Dry Density	Dry Density Ratio
Sample N ^O		mm		No	Wet	Dry	%	%			t/m^3	t/m ³	%
			LOT 1916					Adj .	0.5			Adj.	
11792	8.00	150	5m Rear bdy, 3m Right bdy	11792	-	-	14.0	13.5	WET	103.5	1.89	1.93	98.0
			R.L.8.19	Material Des	cription:	BROW	N SILTY S				_		
			LOT 1917					Adj.	1.0			Adj .	
11793	8.00	150	4m Rear bdy, 2m Left bdy	11793	-	=.	12.5	11.5	WET	108.5	1.89	1.95	97.0
			R.L.7.80	Material Des	cription:	DARK	BROWN S	ILTY SANI	OY CLAY.		_		
			LOT 1918					Adj.	2.0			Adj .	
11794	8.30	150	8m Rear bdy, 4m Right bdy	11794	-	-	11.5	13.5	DRY	85.0	1.87	1.96	95.5
			R.L.7.60	Material Des	cription:	DARK	BROWN SI		DY CLAY.		•	T	
			LOT 1920					Adj .				Adj.	
11795	8.30	150	3m Rear bdy, 2m Right bdy	11795	-	-	8.0	8.0	-	100.0	2.07	2.07	100.0
			R.L.7.54	Material Des	cription:	DARK	BROWN SA			•		T	igsquare
			LOT 1873					Adj .	1.5			Adj .	
11796	9.00	150	3m Rear bdy, 2m Left bdy	11796	-	-	6.5	8.0	DRY	81.5	2.06	2.06	100.0
			R.L.9.79	Material Des	cription:	DARK	GREY SAN					Ť	igsquare
			LOT 1840					Adj .	0.5			Adj .	
11797	9.00	150	6m Rear bdy, 4m Left bdy	11797	-	-	7.5	8.0	DRY	94.0	2.11	2.07	102.0
			R.L.5.63	Material Des	cription:	DARK	BROWN SA	ANDY CLA	ΔY.				
Remarks: Re	eissue of re	port no.41	575.						Regu	iired Dry De	ensity Ratio	95% STD)
Test Procedu	res: AS128	9 5.1.1.5.3	.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm		11040		more reaction	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Prepared By:			, , , , ,	^									
Date:13/4/20												11	\sim
2 4 6 6 1 7 1 7 2 8				NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	McGrann/I	Manager		
Checked By:	R MCGRAI	in RW	le	Accreditation No.	2415					oved Signat :13/4/2018	ory	<u> </u>	2

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

Customer BMD CONSTRUCTIONS PTY LTD Feature ALLOTMENT I Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Location SEE BELOW Project CAPESTONE ESTATE – STAGE 20A Date Tested 7/12/2017

ture ALLOTMENT FILL Report No. 41576 ation SEE BELOW Job No. 1418 e Tested 7/12/2017 Tested by LM JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction No	% Ov 19mm/3 Wet		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 %
			LOT 1839					Adj .	0.5			Adj.	
11798	9.30	150	7m Rear bdy, 2m Left bdy	11798	-	-	10.0	9.5	WET	105.5	1.96	2.05	95.5
			R.L.5.89	Material Des	cription:	DARK	BROWN SA			1		1	
			LOT 1931					Adj.	2.0			Adj .	
11799	9.30	150	10m Front bdy, 3m Right bdy	11977	-	-	19.5	17.5	WET	111.5	1.69	1.76	96.0
			R.L.5.90	Material Des	cription:	REDDI	SH-BROW	N SILTY C		_			
			LOT 1932					Adj.	1.5			Adj.	
11800	10.00	150	4m Rear bdy, 2m Left bdy	11800	-	-	9.0	7.5	WET	120.0	2.02	2.10	96.0
			R.L.5.78	Material Des	cription:	LIGHT	BROWN S	ANDY CLA	AY & ROCK	K FRAGME	NTS		
			LOT 1869					Adj.	1.0			Adj.	
11801	10.00	150	3m Rear bdy, 3m Left bdy	11801	-	-	17.0	18.0	DRY	94.5	1.71	1.78	96.0
RETEST			R.L.9.36	Material Des	cription:	BROW	N SILTY C	LAY & RO	CK FRAGM	IENTS			
								Adj.				Adj.	
				Material Des	L scription:								
				1/14/01/41 200	l			Adj.				Adj.	
												,	
				Material Des	cription:	1							
Remarks: T	est 11801 i	s a retest fo	or test 11408.		•				Requ	ired Dry De	ensity Ratio	95% STD)
Test Procedu	ires: AS128	39 5.1.1,5.3	.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm						
Prepared By Date:13.12.1	.7	0.11		NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	McGrann/I		// // // // // // // // // // // // //	0
Checked By:	R MCGRA	NN KU	de	Accreditation No.	2415					oved Signat :13.12.17	ory	= 11801 W	

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
Project CAPESTONE ESTATE – STAGE 20A

Feature ALLOTMENT FILL Location SEE BELOW 7/12/2017

Report No. 41577 Job No. 1418 Tested by JM LM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^O	% Ov 19mm/3 Wet		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 %
			LOT 1848					Adj .	0.5			Adj.	
11832	13.00	150	10m Rear bdy, 3m Left bdy	11832	-	-	13.5	14.0	DRY	96.5	1.89	1.87	101.0
			R.L.5.40	Material Des	cription:	LIGHT	REDDISH-	BROWN S	ILTY SANI	Y CLAY	_		
			LOT 1850					Adj.				Adj .	
11833	13.00	150	8m Rear bdy, 4m Right bdy	11833	-	-	15.0	15.0	-	100.0	1.78	1.83	97.0
			R.L.5.22	Material Des	cription:	LIGHT	REDDISH-	BROWN S	ILTY SANI	Y CLAY	_		
			LOT 1851					Adj.	0.5			Adj.	
11834	13.30	150		11834	-	-	14.0	13.5	WET	103.5	1.85	1.88	98.5
				Material Des	cription:	LIGHT	REDDISH-			Y CLAY	•		<u> </u>
								Adj.	1.0			Adj.	
11835	13.30	150		11835	-	-	12.5	11.5	WET	108.5	1.89	1.95	97.0
			R.L.5.20	Material Des	cription:	LIGHT	YELLOW-BI		DY CLAY &	FINE ROCK	FRAGMEN		
								Adj.				Adj.	
				Material Des	cription:								
				Triancellar B es	emperom.			Adj.				Adj.	
								,				,	
				Material Des	cription:					1	1		
Remarks:		<u>I</u>		1/14/01/41 25 05	•11pt1011.								1
									Requ	ired Dry De	ensity Ratio	95% STE)
Test Procedu	ares: AS128	39 5.1.1,5.3	.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm						
Prepared By	: G MCGRA	NN											
Date:13.12.1 Checked By:	13.30 150 11m Rear bdy, 3m Right bdy R.L.5.21 LOT 1854 o/s 9m Rear bdy, 3m Left bdy R.L.5.20 ltd. 13.30 150 o/s 9m Rear bdy, 3m Left bdy R.L.5.20 ltd. 150 o/s 9m Rear bdy, 3m Left bdy R.L.5.20 ltd.			NATA Accreditation No.2		d for compl	iance with ISO/II	EC 17025 – Testi	Appr	McGrann/Noved Signat:13.12.17		1 des 101	<i>O</i>
D27/11				Accieultation No.2	±+1J				Date	.15.12.1/			

Brisbane Soil Testing 20/1191 Anzac Ave Kallangur Q 4503

Ph.(07) 3285 6536

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

Customer	BMD CONSTRUCTIONS PTY LTD	Feature	ALLOTMENT FILL	Report No.	41579
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1418
Project	CAPESTONE ESTATE – STAGE 20A	Date Tested	8/12/2017	Tested by	JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction NO	% Ov 19mm/3 Wet	ersize 37.5mm 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 %
11859 RETEST	9.00	150	LOT 1870 3m Rear bdy, 2m Left bdy R.L.9.60	11859 Material Des	-	- CDEV	18.0	Adj. 18.5	0.5 DRY	97.5	1.66	Adj. 1.70	97.5
11860	9.30	150	LOT 1871 4m Rear bdy, 3m Left bdy	11860	-	-	13.5	Adj. 12.5	1.0 WET	108.0	1.88	Adj . 1.92	98.0
11861	10.00	150	R.L.10.10 LOT 1844 3m Rear bdy, 2m Right bdy	Material Des	-	-	11.0	Adj. 11.0	-	100.0	1.84	Adj . 1.91	96.5
			R.L.5.71	Material Des	cription:	DARK	BROWN S	Adj.	& ROCK	FRAGMEN'	TS.	Adj.	
				Material Des	cription:			ı		1	1		
								Adj.				Adj.	
				Material Des	cription:					_ L	1.		
								Adj.				Adj.	
				Material Des	cription:					1			
Remarks: To	ests 11859	& 11860 aı	re retests for tests 11407 & 114	06.					Regi	uired Dry De	ensity Ratio	95% STE)
Test Procedu	res: AS128	39 5.1.1 <u>,</u> 5.3	5.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm						
Date:14.12.1	Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1 ared By: G MCGRANN 2:14.12.17 Cked By: R MCGRANN			Accreditation No.2		d for compl	iance with ISO/II	EC 17025 – Testi	App	g McGrann/I roved Signat 2:14.12.17		Jubo lel	<u></u>

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

Customer BMD CONSTRUCTIONS PTY LTD
Address PO BOX 197, WYNNUM CENTRAL QLD 4178
Project CAPESTONE ESTATE – STAGE 20A

Feature ALLOTMENT FILL Location SEE BELOW 11/12/2017

Report No. 41581 Job No. 1418 Tested by JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction NO	% Ov 19mm/3 Wet	ersize 37.5mm 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 %
11871	8.00	150	LOT 1841 2m Rear bdy, 3m Right bdy R.L.5.52	11871 Material Des	-	-	13.0 VELLOW	Adj. 14.0	1.0 DRY	93.0 Y CLAY	1.81	Adj. 1.86	97.5
11872	8.30	150	LOT 1842 3m Rear bdy, 3m Left bdy R.L.5.49	11872 Material Des	-	-	15.0	Adj. 17.5	2.0 DRY	88.5	1.71	Adj . 1.77	96.5
11873	9.00	150	LOT 1847 7m Rear bdy, 1m Left bdy R.L.5.48	11873 Material Des	-	-	14.0	Adj. 14.5	0.5 DRY	96.5	1.83	Adj. 1.86	98.5
11874	9.30	150	LOT 1852 9m Rear bdy, 3m Left bdy	11874	-	-	16.0	Adj. 16.0	-	100.0	1.81	Adj. 1.80	100.5
			R.L.5.30	Material Des	cription:	LIGHT	BROWNS	Adj.	DY CLAY			Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:			•	•		•	•	
Remarks:					•				Requ	iired Dry De	ensity Ratio	95% STE)
Test Procedu	res: AS128	39 5.1.1,5.3.	.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm						
Prepared By Date:14.12.1	.7			NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	McGrann/N	- /	000	0
Checked By:	R MCGRAI	NN KU	le	Accreditation No.2	2415					oved Signat :14.12.17	ory	2 /180 / W	

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

FIELD DENSITY CERTIFICATE

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

41632

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD Feature Customer Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Location Project CAPESTONE ESTATE – STAGE 20A Date Tested

ALLOTMENT FILL Report No. **SEE BELOW** 4/1/2018

1418 Job No. Tested by JM

Field Test N ^O Sample N ^O	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ⁰	% Ov 19mm/3 Wet	ersize 37.5mm 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 %
			LOT 1877					Adj .	0.5		U/III	Adj.	
11981	10.30	150	5m Rear bdy, 7m Right bdy	11981	-	-	17.5	18.0	DRY	97.0	1.79	1.76	101.5
			R.L.9.64	Material Des	cription:	GREY-	BROWN SI	ILTY SANI	OY CLAY				
								Adj.				Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:								
					•			Adj.				Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	cription:								
Remarks:									Regi	iired Dry De	ensity Ratio	95% STD)
Test Procedu	ires: AS128	39 5.1.1,5.3	.1, 5.4.1, 2.1.1	Required Dry Density Ratio 95% STD Determined on material finer than 19mm									
Date:9.1.18	Procedures: AS1289 5.1.1,5.3.1, 5.4.1, 2.1.1 ared By: <i>G MCGRANN</i>				Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	Greg	McGrann/N		00	0
Checked By:	R MCGRA	NN RN	le	Accreditation No.2	2415					oved Signat :9.1.18	ory	THEN (C)	a

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

FIELD DENSITY CERTIFICATE

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

Email. brissoil@bigpond.net.au

BMD CONSTRUCTIONS PTY LTD Customer Address PO BOX 197, WYNNUM CENTRAL QLD 4178 Project CAPESTONE ESTATE – STAGE 20A

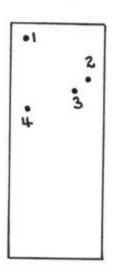
Feature Location Date Tested

ALLOTMENT FILL SEE BELOW 11/4/2018

Report No. 42026 Job No. Tested by LM

1418

Field Test N ^O	Time of Test	Depth of Test	Test Location	Lab Compaction	% Ov 19mm/3	ersize 37.5mm	Field Moisture Content	Optimum Moisture Content	Moisture Variation	Moisture Ratio %	Field Dry Density	Max. Dry Density	Dry Density Ratio
Sample N ^O	1030	mm		No	Wet	Dry	%	%	70		t/m ³	t/m^3	%
			LOT 1917					Adj .	1.5			Adj.	
13074	9.00	150	8m Rear bdy, 2m Left bdy	13074	-	-	15.0	13.5	WET	111.0	1.87	1.96	95.5
			R.L.8.08	Material Des	cription:	LIGHT	REDDISH-B	7		LAY & ROC	K FRAGM	1	
12075	0.20	1.50	LOT 1846	12075			140	Adj.	1.0	107.5	1.04	Adj.	060
13075	9.30	150	8m Rear bdy, 3m Left bdy	13075	-	-	14.0	13.0	WET	107.5	1.84	1.92	96.0
			R.L.5.42	Material Des	cription:	LIGHT	KEDDISH-B	Adj.	Y SANDY C	LAY & ROC	K FRAGM	Adj.	
								Auj.				Auj.	
				Material Des	cription:			<u>. </u>		l			
								Adj.				Adj.	
				Material Des	cription:								
								Adj.				Adj.	
				Material Des	crintion:								
				Waterial Des	l cription.			Adj.				Adj.	
								.,				.,	
				Material Des	cription:					1			
Remarks:		•							Requ	ired Dry De	ensity Ratio	o 95% STE)
Test Procedu	ires: AS128	39 5.1.1,5.3	.1, 5.4.1, 2.1.1	Determined of	on mater	ial finer	than 19mm						
Prepared By	: G MCGRA	NNN				_							
Date:13/4/2	018			NATA	Accredite	d for compl	iance with ISO/II	EC 17025 – Testi	ing.	McGrann/I	Managar	00	0
Checked By:	Checked By: R MCGRANN			Accreditation No.2		r			Appr	McGrann/I oved Signat :13/4/2018	ory	Ties (c)	a





Field Density Results

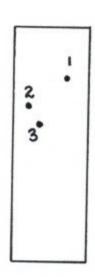
Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)	
1 (11251)	30.10.17	o/s 2m Rear bdy, o/s 2m Left bdy. R.L.4.54.	95.5	
2 (11269)	30.10.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.5.05.	102.0	
3 (11754)	28.11.17	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.5.59.	101.5	
4 (11757)	28.11.17	o/s 8m Rear bdy, o/s 2m Left bdy. R.L.6.02.	101.0	

In our opinion fill on Lot 1837 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

GREG McGRANN





HAMES PL

Field Density Results

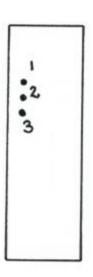
Page 1of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11250)	30.10.17	o/s 4m Rear bdy, o/s 3m Right bdy. R.L.4.75.	96.0
2 (11266)	30.10.17	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.5.25.	95.5
3 (11268)	30.10.17	o/s 8m Rear bdy, o/s 3m Left bdy. R.L.5.77.	96.5

In our opinion fill on Lot 1838 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

GREG McGRANN







Field Density Results

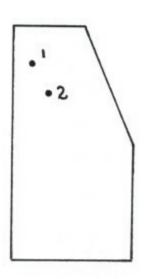
Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)	
1 (11249)	30.10.17	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.5.10.	99.0	
2 (11267)	30.10.17	o/s 6m Rear bdy, o/s 2m Left bdy. R.L.5.63.	96.5	
3 (11798)	7.12.17	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.5.89.	95.5	

In our opinion fill on Lot 1839 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

GREG McGRANN







Field Density Results

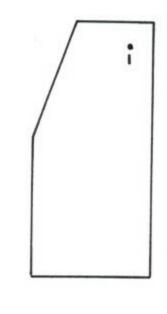
Page 1 of 1

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)	
1 (11248)	30.10.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.5.33.	96.0	
2 (11797)	7.12.17	o/s 6m Rear bdy, o/s 4m Left bdy. R.L.5.63.	102.0	

In our opinion fill on Lot 1840 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)	
1 (11871)	11.12.17	o/s 2m Rear bdy, o/s 3m Right bdy. R.L.5.52.	97.5	

In our opinion fill on Lot 1841 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)	
1 (11872)	11.12.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.5.49.	96.5	

In our opinion fill on Lot 1842 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)	
1 (11756)	28.11.17	o/s 5m Rear bdy, o/s 1m Right bdy. R.L.5.52.	98.0	

In our opinion fill on Lot 1843 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)	
1 (11755)	28.11.17	o/s 7m Rear bdy, o/s 2m Left bdy. R.L.5.37.	97.5	
2 (11861)	8.12.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.5.71.	96.5	

In our opinion fill on Lot 1844 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

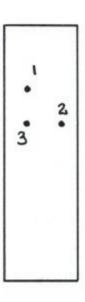
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Test Date No. Tested		Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)	
1 (11216)	27.10.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.5.16.	97.5	
2 (11235)	28.10.17	o/s 6m Rear bdy, o/s 3m Left bdy. R.L.5.62.	99.5	

In our opinion fill on Lot 1845 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

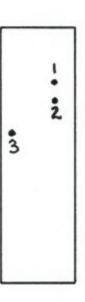
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Test	Date	Test	Dry Density Ratio %
No.	Tested	Location	AS1289 5.4.1 (Standard)
1 (11221)	27.10.17	o/s 5m Rear bdy, o/s 3m Left bdy. R.L.4.43.	97.0
2 (11286)	1.11.17	o/s 8m Rear bdy, o/s 2m Right bdy. R.L.4.96.	101.5
3 (13075)	11.04.18	o/s 8m Rear bdy, o/s 3m Left bdy. R.L.5.42.	96.0

In our opinion fill on Lot 1846 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

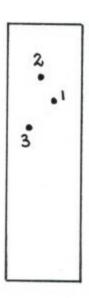
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11217)	27.10.17	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.4.47.	96.0
2 (11234)	28.10.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.4.95.	98.5
3 (11873)	11.12.17	o/s 7m Rear bdy, o/s 1m Left bdy. R.L.5.48.	98.5

In our opinion fill on Lot 1847 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

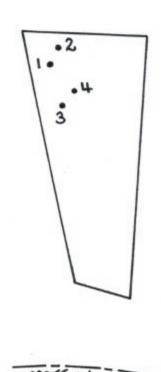
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11231)	27.10.17	o/s 7m Rear bdy, o/s 4m Right bdy. R.L.4.32.	100.5
2 (11285)	1.11.17	o/s 5m Rear bdy, o/s 4m Left bdy. R.L.4.90.	100.0
3 (11832)	7.12.17	o/s 10m Rear bdy, o/s 3m Left bdy. R.L.5.40.	101.0

In our opinion fill on Lot 1848 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

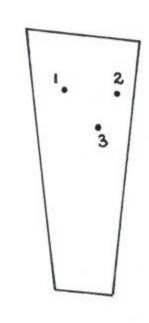
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11218)	27.10.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.4.41.	101.5
2 (11219)	27.10.17	o/s 2m Rear bdy, o/s 3m Left bdy. R.L.4.83.	100.0
3 (11233)	28.10.17	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.5.35.	91.0
4 (11720)	25.11.17	o/s 6m Rear bdy, o/s 4m Left bdy. R.L.5.35. Rete	est 97.0

In our opinion fill on Lot 1849 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

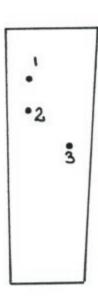
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11220)	27.10.17	o/s 5m Rear bdy, o/s 4m Left bdy. R.L.4.20.	99.5
2 (11281)	1.11.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.4.78.	96.0
3 (11833)	7.12.17	o/s 8m Rear bdy, o/s 4m Right bdy. R.L.5.22.	97.0

In our opinion fill on Lot 1850 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

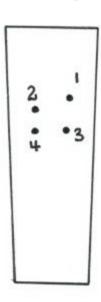
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11230)	27.10.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.4.07.	96.5
2 (11284)	1.11.17	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.4.72.	99.5
3 (11834)	7.12.17	o/s 11m Rear bdy, o/s 3m Right bdy. R.L.5.21.	98.5

In our opinion fill on Lot 1851 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

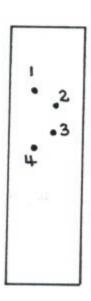
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11232)	28.10.17	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.3.75.	99.0
2 (11280)	1.11.17	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.4.40.	96.0
3 (11753)	28.11.17	o/s 9m Rear bdy, o/s 3m Right bdy. R.L.4.91.	102.5
4 (11874)	11.12.17	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.5.30.	100.5

In our opinion fill on Lot 1852 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

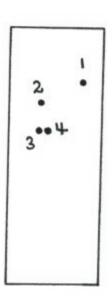
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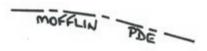
Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11229)	27.10.17	o/s 5m Rear bdy, o/s 3m Left bdy. R.L.3.55.	96.5
2 (11283)	1.11.17	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.4.10.	98.0
3 (11287)	1.11.17	o/s 9m Rear bdy, o/s 3m Right bdy. R.L.4.69.	100.5
4 (11752)	28.11.17	o/s 11m Rear bdy, o/s 3m Left bdy. R.L.5.17.	100.5

In our opinion fill on Lot 1853 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

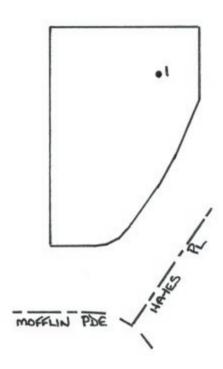
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11279)	1.11.17	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.3.44.	96.0
2 (11282)	1.11.17	o/s 6m Rear bdy, o/s 3m Left bdy. R.L.4.13.	100.0
3 (11288)	1.11.17	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.4.68.	99.0
4 (11835)	7.12.17	o/s 9m Rear bdy, o/s 3m Left bdy. R.L.5.20.	97.0

In our opinion fill on Lot 1854 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

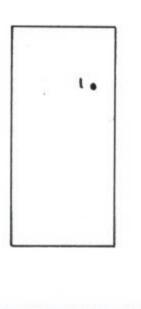
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11450)	8.11.17	o/s 5m Rear bdy, o/s 5m Right bdy. R.L.5.50.	98.0

In our opinion fill on Lot 1855 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

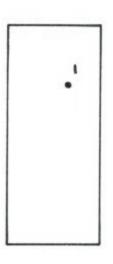
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11449)	8.11.17	o/s 5m Rear bdy, o/s 2m Right bdy. R.L.5.69.	96.5

In our opinion fill on Lot 1856 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11448)	8.11.17	o/s 6m Rear bdy, o/s 3m Right bdy. R.L.5.86.	91.5

In our opinion fill on Lot 1857 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field	Density	Results
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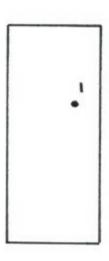
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11447)	8.11.17	o/s 7m Rear bdy, o/s 3m Right bdy. R.L.6.31.	95.0

In our opinion fill on Lot 1858 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

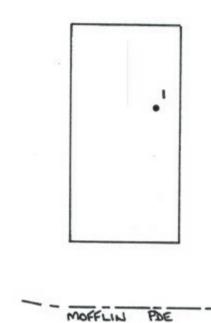
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11446)	8.11.17	o/s 9m Rear bdy, o/s 3m Right bdy. R.L.6.72.	102.5

In our opinion fill on Lot 1859 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

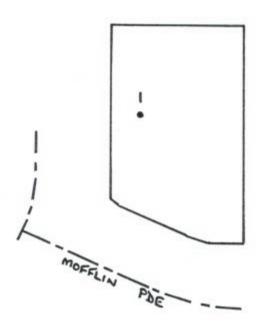
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11445)	8.11.17	o/s 10m Rear bdy, o/s 2m Right bdy. R.L.7.30.	103.0

In our opinion fill on Lot 1860 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

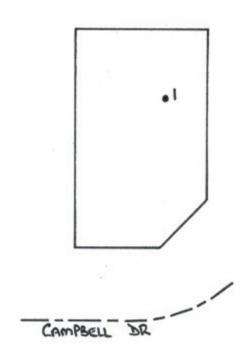
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11444)	8.11.17	o/s 10m Rear bdy, o/s 3m Left bdy. R.L.7.73.	99.0

In our opinion fill on Lot 1861 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11433)	7.11.17	o/s 7m Rear bdy, o/s 4m Left bdy. R.L.7.92.	97.5

In our opinion fill on Lot 1862 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Test No.	Date Tested	Test Location	AS1289 5.4.1 (Standard)
1 (11432)	7.11.17	o/s 7m Rear bdy, o/s 3m Left bdy. R.L.8.03.	89.5
2 (11751)	28.11.17	o/s 6m Rear bdy, o/s 3m Left bdy. R.L.8.06. Rete	est 100.0

In our opinion fill on Lot 1863 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11431)	7.11.17	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.8.19.	100.0

In our opinion fill on Lot 1864 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

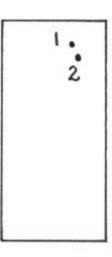
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11430)	7.11.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.8.26.	95.5

In our opinion fill on Lot 1865 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

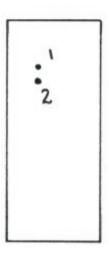
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Test No.	Date Tested	Location AS	nsity Ratio % 1289 5.4.1 tandard)
1 (11429)	7.11.17	o/s 2m Rear bdy, o/s 4m Right bdy. R.L.8.51.	92.5
2 (11750)	28.11.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.8.50. Retest	104.0

In our opinion fill on Lot 1866 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test D Location	AS1289 5.4.1 (Standard)
1 (11428)	7.11.17	o/s 4m Rear bdy, o/s 4m Left bdy. R.L.8.70.	92.5
2 (11749)	28.11.17	o/s 5m Rear bdy, o/s 4m Left bdy. R.L.8.67. Rete	st 101.5

In our opinion fill on Lot 1867 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

GREG McGRANN





CAMPBELL DR

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11427)	7.11.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.9.03.	95.5

In our opinion fill on Lot 1868 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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CAMPBELL DR

Field Density Results

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Test No.	Date Tested	Test D Location	ry Density Ratio % AS1289 5.4.1 (Standard)
1 (11408)	6.11.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.9.28.	92.5
2 (11801)	7.12.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.9.36. Retes	st 96.0

In our opinion fill on Lot 1869 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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- CAMPBELL DR

Field Density Results

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Test	Date	Test D Location	AS1289 5.4.1
No.	Tested		(Standard)
1 (11407)	6.11.17	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.9.61.	90.5
2 (11859)	8.12.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.9.60. Rete	st 97.5

In our opinion fill on Lot 1870 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

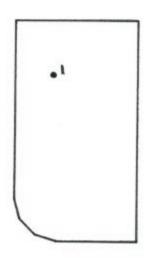
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Test No.	Date Tested	· ·	Density Ratio % AS1289 5.4.1 (Standard)
1 (11406)	6.11.17	o/s 4m Rear bdy, o/s 2m Right bdy. R.L.10.17.	91.0
2 (11860)	8.12.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.10.10. Retest	98.0

In our opinion fill on Lot 1871 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

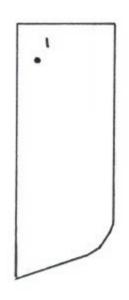
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11405)	6.11.17	o/s 6m Rear bdy, o/s 4m Left bdy. R.L.10.60.	95.0

In our opinion fill on Lot 1872 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

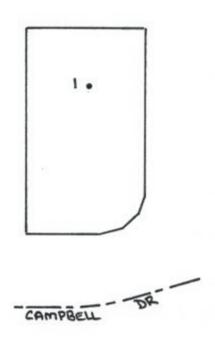
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11796)	7.12.17	o/s 3m Rear bdy, o/s 2m Left bdy. R.L.9.79.	100.0

In our opinion fill on Lot 1873 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11981)	4.01.18	o/s 5m Rear bdy, o/s 7m Right bdy. R.L.9.64.	101.5

In our opinion fill on Lot 1877 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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LUKIN RO

Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11792)	7.12.17	o/s 5m Rear bdy, o/s 3m Right bdy. R.L.8.19.	98.0

In our opinion fill on Lot 1916 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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WKIN RD

Field Density Results

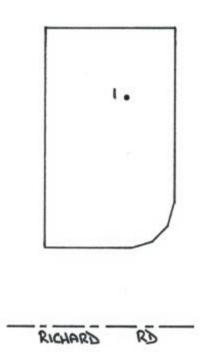
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11793)	7.12.17	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.7.80.	97.0
2 (13074)	11.04.18	o/s 8m Rear bdy, o/s 2m Left bdy. R.L.8.08.	95.5

In our opinion fill on Lot 1917 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

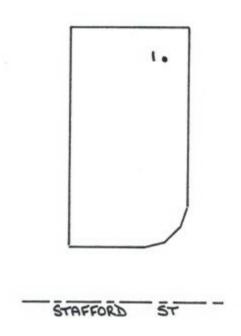
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11794)	7.12.17	o/s 8m Rear bdy, o/s 4m Right bdy. R.L.7.60.	95.5

In our opinion fill on Lot 1918 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

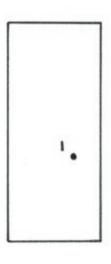
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11795)	7.12.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.7.54.	100.0

In our opinion fill on Lot 1920 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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STAFFORD ST

Field Density Results

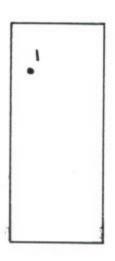
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11799)	7.12.17	o/s 10m Front bdy, o/s 3m Right bdy. R.L.5.90.	96.0

In our opinion fill on Lot 1931 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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STAFFORD ST

Field	Densit	v Results

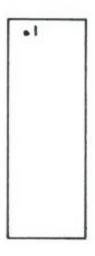
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11800)	7.12.17	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.5.78.	96.0

In our opinion fill on Lot 1932 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11470)	9.11.17	o/s 1m Rear bdy, o/s 2m Left bdy. R.L.5.78.	99.5

In our opinion fill on Lot 1933 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test Di Location	ry Density Ratio % AS1289 5.4.1 (Standard)
1 (11247)	30.10.17	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.5.89.	92.5
2 (11469)	9.11.17	o/s 3m Rear bdy, o/s 2m Right bdy. R.L.5.86. Rete	st 98.5

In our opinion fill on Lot 1934 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

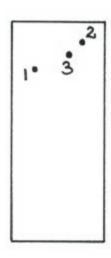
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Test No.	Date Tested	Test 1 Location	Ory Density Ratio % AS1289 5.4.1 (Standard)
1 (11214)	26.10.17	o/s 4m Rear bdy, o/s 3m Left bdy. R.L.5.41.	99.0
2 (11246)	30.10.17	o/s 5m Rear bdy, o/s 2m Left bdy. R.L.5.72.	90.5
3 (11468)	9.11.17	o/s 3m Rear bdy, o/s 3m Left bdy. R.L.5.74. Ret	est 100.0

In our opinion fill on Lot 1935 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

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Test No.	Date Tested	Test D Location	Ory Density Ratio % AS1289 5.4.1 (Standard)
1 (11215)	26.10.17	o/s 4m Rear bdy, o/s 2m Left bdy. R.L.5.32.	96.5
2 (11245)	30.10.17	o/s 2m Rear bdy, o/s 2m Right bdy. R.L.5.64.	91.0
3 (11467)	9.11.17	o/s 3m Rear bdy, o/s 3m Right bdy. R.L.5.60. Ret	test 99.5

In our opinion fill on Lot 1936 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

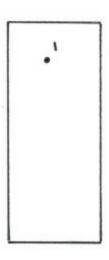
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11244)	30.10.17	o/s 2m Rear bdy, o/s 3m Left bdy. R.L.5.43.	95.0

In our opinion fill on Lot 1937 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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- STAFFORD ST

Field Density Results

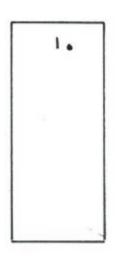
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11243)	30.10.17	o/s 3m Rear bdy, o/s 4m Left bdy. R.L.5.35.	95.0

In our opinion fill on Lot 1938 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Field Density Results

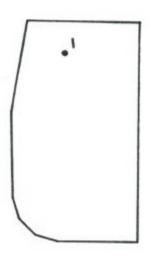
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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11242)	30.10.17	o/s 2m Rear bdy, o/s 4m Right bdy. R.L.5.32.	98.0

In our opinion fill on Lot 1939 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

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Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
1 (11241)	30.10.17	o/s 3m Rear bdy, o/s 4m Left bdy. R.L.4.94.	98.5

In our opinion fill on Lot 1940 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a "Level 1" inspection and testing commission.

GREG McGRANN

