

22nd May 2023

Ref No: 1462_Level 1_Aurora Stage 5,6 & 7

REPORT ON LEVEL 1

EARTHWORKS INSPECTION AND TESTING



PROJECT:

AURORA STAGES 5, 6 & 7 - DALEYS ROAD RIPLEY

CONTRACTOR:

BMD URBAN PTY LTD



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1 INTRODUCTION

1.0 GENERAL

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with Clause 8.2 of AS 3798-2007 '*Guidelines on earthworks for commercial and residential developments*'.

The fill placed on the development between 9/02/23 and 27/04/23 as detailed in this report is considered to be controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

1.1 SITE DESCRIPTION

The site is located off Daleys Road, Ripley in Queensland. Shown below.



Stage 5, 6 & 7

2 WORKS AND SPECIFICATIONS

The earthworks generally comprised of Level 1 filling placed on the site. Filling was conducted by using site won materials. The fill materials were placed in layers not exceeding 150mm and moisture conditioned as required to achieve an appropriate placement Moisture Content. Padfoot Compactors were then utilised to compact the fill until the required density specifications were achieved.

Filling was carried out in accordance with AS3798-2007 'Guidelines on earthworks for commercial and residential developments' and with the project specification prepared for the project.

The specification requirements were that all fill was to be placed and compacted in layers to a density ratio of not less than 95% of the maximum dry density as determined by AS1289.5.7.1 (standard compaction).



3 PREVIOUS FILLING

The site has been previously filled by others. The previously filled area is along the eastern edge of the site. Details of any previous site filling is detailed in the Construction Sciences report ID, P2055 comp 01 dated 30/10/2021.

4 FILL FOUNDATION

The stripped surfaces of proposed fill areas were inspected, and proof rolled prior to placement of fill. In general, the proof rolling was carried out with the equipment used to compact the fill and a water truck. Compliance of the fill foundation and approval to commence filling was on the basis of:

- adequate removal of topsoil and organics
- soundness (minimum deflection) under proof rolling
- Suitable Benching/keying into slopes

5 COMPLIANCE TESTING

Test locations were randomly selected by the Geotechnical Testing Authority (GTA) Australian Soil and Concrete Testing. Compaction control tests were carried out at regular intervals throughout the placement of fill in accordance with the minimum test frequency recommendations included in the specifications. The table below summarises the test results. The test locations were not professionally surveyed and should be considered approximate.

All field density tests carried out on the structural fill meet the minimum specification requirements of 95% Standard Compaction (AS 1289 5.8.1, 5.7.1 & 2.1.1).

						Density
Test No	Test Date		Test Locatio	n	Test Level	Ratio %
79282	9/02/2023	Level 1 Fill	E:5347.4	N:13503.9	RL:40.0	98.5
79283	9/02/2023	Level 1 Fill	E:5372.5	N:13512.1	RL:42.0	98.5
79284	9/02/2023	Level 1 Fill	E:5359.6	N:13509.7	RL:41.5	97.5
79386	10/02/2023	Level 1 Fill	E:5358.2	N:13516.0	RL:42.0	96.5
79387	10/02/2023	Level 1 Fill	E:5344.6	N:13511.9	RL:41.1	99.5
79388	10/02/2023	Level 1 Fill	E:5340.0	N:13509.6	RL:40.8	99.0
79669	14/02/2023	Level 1 Fill	E:5490.2	N:13557.7	RL:52.3	96.5
79670	14/02/2023	Level 1 Fill	E:5498.1	N:13542.3	RL:50.4	95.5
79671	14/02/2023	Level 1 Fill	E:5400.2	N:13529.4	RL:45.2	97.0
79672	14/02/2023	Level 1 Fill	E:5401.6	N:13531.2	RL:44.6	97.5
79673	14/02/2023	Level 1 Fill	E:5487.6	N:13558.2	RL:49.3	99.5
79915	16/02/2023	Level 1 Fill	E. 5583.4	N.13313.1	RL.54.8	97.0
79916	16/02/2023	Level 1 Fill	E. 5570.8	N. 13338.9	RL.54.7	96.0
79917	16/02/2023	Level 1 Fill	E. 5571.3	N.13312.9	RL.54.5	95.0



		1				
79918	16/02/2023	Level 1 Fill	E. 5557.1	N.13332.9	RL.54.2	95.0
79919	16/02/2023	Level 1 Fill	E. 5559.4	N.13316.4	RL.53.8	96.0
79920	16/02/2023	Level 1 Fill	E. 5578.9	N.13326.4	RL.54.0	95.5
79921	16/02/2023	Level 1 Fill	E. 5589.2	N.13313.9	RL.53.9	96.0
79922	16/02/2023	Level 1 Fill	E. 5590.6	N.13334.6	RL.53.7	95.5
79957	17/02/2023	Level 1 Fill	E.5549.8	N.13384.6	RL.55.0	98.5
79958	17/02/2023	Level 1 Fill	E.5540.4	N.13368.7	RL.54.9	95.5
79959	17/02/2023	Level 1 Fill	E.5543.5	N.13372.6	RL.54.7	99.5
79960	17/02/2023	Level 1 Fill	E.5556.0	N.13387.8	RL.55.1	97.5
80287	22/02/2023	Level 1 Fill	E.5596.8	N.13391.0	RL.56.9	101.5
80288	22/02/2023	Level 1 Fill	E.5584.1	N.13290.4	RL.56.5	99.5
80289	22/02/2023	Level 1 Fill	E.5590.1	N.13285.3	RL.56.7	99.5
80290	22/02/2023	Level 1 Fill	E.5588.4	N.13287.6	RL.56.6	99.0
80343	21/02/2023	Level 1 Fill	E.5573.4	N.13330.1	RL.55.8	99.0
80344	21/02/2023	Level 1 Fill	E.5590.2	N.13324.5	RL.56.0	97.5
80345	21/02/2023	Level 1 Fill	E.5579.4	N.13311.6	RL.55.9	98.0
80346	21/02/2023	Level 1 Fill	E.5583.8	N.13305.3	RL.55.9	98.5
80347	21/02/2023	Level 1 Fill	E.5590.2	N.13296.7	RL.56.0	98.5
80348	21/02/2023	Level 1 Fill	E.5568.5	N.13336.9	RL.56.1	98.0
80625	24/02/2023	Level 1 Fill	E:5478.4	N:13391.8	RL:48.0	98.0
80626	24/02/2023	Level 1 Fill	E:5497.3	N:13381.8	RL:49.0	99.0
80627	24/02/2023	Level 1 Fill	E:5489.4	N:13399.8	RL:49.1	100.0
80628	24/02/2023	Level 1 Fill	E:5480.1	N:13365.4	RL:48.9	98.5
80629	27/02/2023	Level 1 Fill	E:5421.3	N:13324.9	RL:48.1	102.0
80630	27/02/2023	Level 1 Fill	E:5411.8	N:13322.1	RL:49.9	100.0
80631	27/02/2023	Level 1 Fill	E:5483.0	N:13369.7	RL:49.1	102.0
80632	27/02/2023	Level 1 Fill	E:5485.2	N:13396.3	RL:49.0	102.5
80838	1/03/2023	Level 1 Fill	E:5504.2	N:13372.6	RL:50.6	99.5
80839	1/03/2023	Level 1 Fill	E:5516.1	N:13363.9	RL:50.7	102.0
80840	1/03/2023	Level 1 Fill	E:5516.0	N:13341.3	RL:50.8	96.0
80841	1/03/2023	Level 1 Fill	E:5530.2	N:13337.0	RL:51.1	99.5
80842	1/03/2023	Level 1 Fill	E:5522.6	N:13334.1	RL:50.8	98.0
80843	1/03/2023	Level 1 Fill	E:5501.2	N:13369.6	RL:49.9	99.0
80844	1/03/2023	Level 1 Fill	E:5511.2	N:13362.3	RL:50.2	98.0
80845	1/03/2023	Level 1 Fill	E:5515.2	N:13340.9	RL:50.5	101.0
80846	1/03/2023	Level 1 Fill	E:5529.8	N:13332.6	RL:50.0	101.5
80948	2/03/2023	Level 1 Fill	E:5509.2	N:13370.6	RL:"51.0	95.5
80949	2/03/2023	Level 1 Fill	E:5519.2	N:13365.2	RL:51.3	98.5
80950	2/03/2023	Level 1 Fill	E:5516.2	N:13342.4	RL:51.2	97.0
80951	2/03/2023	Level 1 Fill	E:5532.6	N:13338.2	RL:51.0	95.0
80952	2/03/2023	Level 1 Fill	E:5521.6	N:13334.9	RL:51.5	98.0
80953	2/03/2023	Level 1 Fill	E:5511.2	N:13362.6	RL:51.9	96.0



00054	2 /22 /2222		E EE 40.4	N 40000 0	DI 54.0	101 5
80954	2/03/2023	Level 1 Fill	E:5519.4	N:13360.2	RL:51.9	101.5
80955	2/03/2023	Level 1 Fill	E:5506.2	N:13345.4	RL:52.0	96.5
80956	2/03/2023	Level 1 Fill	E:5536.9	N:13340.2	RL:51.8	95.5
80957	2/03/2023	Level 1 Fill	E:5522.7	N:13339.6	RL:52.1	95.0
81090	3/03/2023	Level 1 Fill	E:4515.1	N:13345.7	RL:51.1	96.5
81091	3/03/2023	Level 1 Fill	E:5504.2	N:13343.4	RL:44.9	97.5
81092	3/03/2023	Level 1 Fill	E:5503.0	N:13357.6	RL:49.9	97.5
81093	3/03/2023	Level 1 Fill	E:5496.6	N:13372.3	RL:49.7	96.0
81094	3/03/2023	Level 1 Fill	E:5507.2	N:13376.4	RL:50.9	100.0
81095	3/03/2023	Level 1 Fill	E:4510.1	N:13346.9	RL:50.9	100.0
81096	3/03/2023	Level 1 Fill	E:5509.3	N:13346.5	RL:43.9	97.5
81097	3/03/2023	Level 1 Fill	E:5513.6	N:13358.9	RL:49.3	99.0
81098	3/03/2023	Level 1 Fill	E:5496.0	N:13372.6	RL:49.2	97.0
81099	3/03/2023	Level 1 Fill	E:5509.1	N:13370.2	RL:50.5	97.5
	0,00,2020		12m off East	9m off South		0.10
81260	7/03/2023	Lot 527	Boundary	Boundary	F/L	99.0
			11m off East	7m off South		
81261	7/03/2023	Lot 526	Boundary	Boundary	0.4m BFL	96.5
			3m off East	11m off South		
81262	7/03/2023	Lot 523	Boundary	Boundary	F/L	98.5
			5m off East	4m off South		
81263	7/03/2023	Lot 522	Boundary	Boundary	0.5m BFL	97.0
04064	7 (00 (0000		6m off East	17m off South	= /1	07.5
81264	7/03/2023	Lot 521	Boundary	Boundary	F/L	97.5
81265	7/03/2023	Lot 520	4m off East Boundary	5m off South Boundary	E/I	96.0
01205	770372023	LUL 520	3m off East	15m off South	F/L	90.0
81266	7/03/2023	Lot 519	Boundary	Boundary	0.6m BFL	97.0
01200	,,03,2023	201313	13m off East	4m off South	0.011 D1 L	57.0
81267	7/03/2023	Lot 625	Boundary	Boundary	F/L	100.0
			6m off East	27m off South		
81268	7/03/2023	Lot 773	Boundary	Boundary	F/L	100.5
			5m off East	18m off South		
81269	7/03/2023	Lot 774	Boundary	Boundary	F/L	98.5
			7m off East	29m off South		
81270	7/03/2023	Lot 775	Boundary	Boundary	F/L	100.0
04074	7/02/2022	1.1.776	4m off East	16m off South	F (1	00.0
81271	7/03/2023	Lot 776	Boundary	Boundary	F/L	96.0
81609	6/03/2023	Level 1 Fill	E:5526.2	N:13311.6	RL:52.7	98.0
81610	6/03/2023	Level 1 Fill	E:5517.3	N:13302.5	RL:51.5	101.5
81611	6/03/2023	Level 1 Fill	E:5504.3	N:13296.3	RL:50.1	100.0
81612	6/03/2023	Level 1 Fill	E:5517.7	N:13263.3	RL:50.2	100.5
81613	6/03/2023	Level 1 Fill	E:5525.6	N:13269.1	RL:51.3	100.0
81614	6/03/2023	Level 1 Fill	E:5521.2	N:13312.9	RL:52.0	98.5
81615	6/03/2023	Level 1 Fill	E:5518.9	N:13309.6	RL:51.0	101.5



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81616	6/03/2023	Level 1 Fill	E:5509.6	N:13297.8	RL:49.7	102.5
81617	6/03/2023	Level 1 Fill	E:5519.6	N:13265.9	RL:50.0	102.0
81618	6/03/2023	Level 1 Fill	E:5530.7	N:13270.2	RL:50.9	101.5
82128	15/03/2023	Level 1 Fill	E:5759.1	N:13381.4	RL:57.0	98.0
82129	15/03/2023	Level 1 Fill	E:5748.4	N:13372.9	RL:57.4	97.0
82130	15/03/2023	Level 1 Fill	E:5766.7	N:13335.5	RL:57.1	97.0
82131	15/03/2023	Level 1 Fill	E:5774.3	N:13336.7	RL:56.3	97.0
82132	15/03/2023	Level 1 Fill	E:5768.2	N:13336.9	RL:56.5	100.0
82133	15/03/2023	Level 1 Fill	E:5760.9	N:13380.9	RL:56.2	100.5
82134	15/03/2023	Level 1 Fill	E:5739.2	N:13379.1	RL:56.8	95.5
82135	15/03/2023	Level 1 Fill	E:5767.4	N:13336.2	RL:56.3	98.5
82400	17/03/2023	Level 1 Fill	E:5819.8	N:13403.6	RL:51.1	98.0
82401	17/03/2023	Level 1 Fill	E:5851.1	N:13431.5	RL:49.8	101.0
82402	17/03/2023	Level 1 Fill	E:5818.0	N:13441.4	RL:49.7	98.5
82403	17/03/2023	Level 1 Fill	E:5826.6	N:13408.8	RL:50.6	102.0
82404	17/03/2023	Level 1 Fill	E:5809.7	N:13395.1	RL:49.9	98.5
82405	17/03/2023	Level 1 Fill	E:5815.4	N:13446.9	RL:49.9	98.5
82406	17/03/2023	Level 1 Fill	E:5823.7	N:13419.6	RL:50.4	98.0
82407	17/03/2023	Level 1 Fill	E:5829.8	N:13422.2	RL:50.8	102.0
	, ,		12m from East	2m from South		
82778	24/03/2023	Lot 509	Boundary	Boundary	F/L	99.0
			6m from East	4m from South		
82779	24/03/2023	Lot 510	Boundary	Boundary	F/L	97.5
	/ /		10m from East	6m from South	- 4	
82780	24/03/2023	Lot 511	Boundary	Boundary	F/L	98.5
82781	24/03/2023	Lot 512	9m from East	3m from South Boundary	E /I	98.0
82781	24/03/2023	LOI 512	Boundary 7m off North	10m off West	F/L F/L of	98.0
85522	27/04/2023	Lot 515	Boundary	Boundary	Trench	97.0
			7m off North	18m off West		0,10
85523	27/04/2023	Lot 705	Boundary	Boundary	0.3m BFL	96.5
			11m off North	19m off West	F/L of	
85524	27/04/2023	Lot 537	Boundary	Boundary	Trench	100.5
			5m off North	11m off West		
85525	27/04/2023	Lot 708	Boundary	Boundary	0.4m BFL	98.5
05536	27/04/2023	L at 706	8m off North	11m off West		100.0
85526	27/04/2023	Lot 706	Boundary 6m off North	Boundary 10m off West	0.6m BFL	100.0
85527	27/04/2023	Lot 704	Boundary	Boundary	0.3m BFL	99.5
		200701	6m off North	12m off West		
85528	27/04/2023	Lot 702	Boundary	Boundary	0.4m BFL	98.0
			15m off North	5m off West	F/L of	
85529	27/04/2023	Lot 538	Boundary	Boundary	Trench	100.0
			20m off North	8m off West	F/L of	
85530	27/04/2023	Lot 539	Boundary	Boundary	Trench	100.5



			7m off North	9m off West	F/L of	
85531	27/04/2023	Lot 540	Boundary	Boundary	Trench	99.5
			18m off North	9m off West	F/L of	
85532	27/04/2023	Lot 541	Boundary	Boundary	Trench	101.0
			24m off North	8m off West	F/L of	
85533	27/04/2023	Lot 542	Boundary	Boundary	Trench	97.5
			15m off North	8m off West	F/L of	
85534	27/04/2023	Lot 543	Boundary	Boundary	Trench	99.0

No. of Tests: 125 Mean: 98.5 %

6 CONCLUSION

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction, as far as we have been able to determine, the structural fill placed between the 9/02/23 and 27/04/23 is considered to have been carried out in general accordance with AS 3798-2007 *Guidelines on earthworks for commercial and residential developments*.

7 LIMITATIONS

Unless otherwise stated in this report, this report does not include: Backfill behind retaining structures, Backfill to service trenches, Road Pavements, Any Topsoil placed on the site, Slope Stability or Site Drainage.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager ASCT Brisbane South



Appendix A

Cut Fill Drawings



RD

FOR AND ON BEHALF OF PEAKURBAN PTY LTD

ENQUIRIES@PEAKURBAN.COM.AU

ASSOCIATED CONSULTANT

ORCHARD (DALEYS) DEVELOPMENTS PTY LTD JECT NAME



E	DRAWING TITLE		
AURORA STAGE 4	BULK EARTH	WORKS LAY SHEET 2	OUT
DALEYS ROAD RIPLEY QLD	PROJECT No. 21-0257	DRAWING No.	



RE\	/ DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT N
A	14.09.22	RD	RD	ISSUED FOR CONSTRUCTION	1					
					RD	ISSUED FOR CONSTRUCTION			ORCHARD (DALEYS)	
_	-				IND .			1:500 10 5 0 10 20 A1		
	_				-		PEAKUKDAN		DEVELOPMENTS PTY LTD	
	-				DESIGN	APPROVED	Achieve more.	1:1000 A3		
	_					TROY SCHULTZ	Achieve more.		ASSOCIATED CONSULTANT	
					RD				LANDPARTNERS	
					1 110					1
						FOR AND ON BEHALF OF PEAKURBAN PTY LTD	ENQUIRIES@PEAKURBAN.COM.AU			

WARNING! - EXISTING SERVICES

EXTREME CARE SHOULD BE TAKEN WHEN EXCAVATING IN THIS AREA. THE FOLLOWING EXISTING SERVICES ARE LIKELY TO BE PRESENT IN THE VICINITY OF THE SITE:

(N)

- ELECTRICAL CABLES
- TELECOMMUNICATIONS CABLES
- GAS MAINS
- WATER MAINS
- SEWER MAINS

THE CONTRACTOR SHOULD CONTACT THE SERVICE PROVIDER FOR FURTHER INFORMATION AND SATISFY THEMSELVES OF ANY SPECIFIC TREATMENT OR REQUIREMENTS.



KEYPLAN NOT TO SCALE

AURORA STAGE 4	BULK EARTHWC		DUT
DALEYS ROAD RIPLEY QLD	PROJECT №. 21-0257	DRAWING No.	





Appendix B

Test Reports

t (Nuclear Gauge of the second	178	Page: Report No: Report Dat Project No: Test Reque ITP/PCP: 79284 3 9/02/2023 1020	e: 23/02/2023 1462	
ns Pty Ltd Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks - Level 1 79282 1 9/02/2023 1010 On Site - General Fill	178 Phase 79283 2 9/02/2023	Report Dat. Project No: Test Reque ITP/PCP: 79284 3 9/02/2023	e: 23/02/2023 1462 st: - - - - -	-
1 9/02/2023 1010 On Site - General Fill	2 9/02/2023	3 9/02/2023		-
1 9/02/2023 1010 On Site - General Fill	2 9/02/2023	3 9/02/2023		-
9/02/2023 1010 On Site - General Fill	9/02/2023	9/02/2023		-
1010 On Site - General Fill				
On Site - General Fill	1015	1020		-
-				
	-	-		
E:5347.4	E:5372.5	E:5359.6	-	-
N:13503.9	N:13512.1	N:13509.7	-	-
RL:40.0	RL:42.0	RL:41.5	-	-
-	-	-	-	-
150	150	150	-	-
2.12	2.06	2.08	-	-
1.89	1.84	1.85	-	-
0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
-	-	-	-	-
AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
12.5	12.0	13.0	-	-
			-	-
-	-		-	-
			-	-
			-	-
Standard	Standard	Standard	-	-
			-	-
			-	-
50.5	50.5	57.5		-
Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
97.7	3	98.20	0.62	0.739
-	-	-	-	-
Characteristic Value		Mean	Standard Deviation	Constant k
-	-		-	-
-	-	-	-	-
	RL:40.0 - 150 2.12 1.89 0% on 19.0mm - AS1289.2.1.1 - Oven 12.5 12.1 Passing 19.0mm 2.16 2.16 Standard At OMC 102.0 98.5 Characteristic Value 97.7	RL:40.0 RL:42.0 - - 150 150 2.12 2.06 1.89 1.84 0% on 19.0mm 0% on 19.0mm - - AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven 12.5 12.0 12.1 11.9 Passing 19.0mm Passing 19.0mm 2.16 2.09 2.16 2.09 Standard Standard Kandard Characteristic Value Number of Tests 97.7 3 - - Characteristic Value Number of Tests - -	RL:40.0 RL:42.0 RL:41.5 - - - 150 150 150 2.12 2.06 2.08 1.89 1.84 1.85 0% on 19.0mm 0% on 19.0mm 0% on 19.0mm - - - AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven 12.5 12.0 13.0 12.1 11.9 12.9 Passing 19.0mm Passing 19.0mm Passing 19.0mm 2.16 2.09 2.14 2.16 2.09 2.14 Standard Standard Standard Standard Standard Standard 0102.0 99.0 99.0 98.5 98.5 97.5 Characteristic Value Number of Tests Mean 97.7 3 98.20 - - - Characteristic Value Number of Tests Mean	RL:40.0 RL:42.0 RL:41.5 - - - - - 150 150 150 - 2.12 2.06 2.08 - 1.89 1.84 1.85 - 0% on 19.0mm 0% on 19.0mm 0% on 19.0mm - - - - - AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven - - 12.5 12.0 13.0 - - 12.1 11.9 12.9 - - Passing 19.0mm Passing 19.0mm Passing 19.0mm - - 2.16 2.09 2.14 - - 2.16 2.09 2.14 - - Standard Standard Standard - - MAC At OMC At OMC - - - Characteristic Value Number of Tests Mean Standard Deviation - 97.7 3 98.20 0.62 - - - - - - <td< th=""></td<>

Approved Signatory WB101 - Rev 11, 06/10/2022

				ASCT Brisbane South			
				Postal: PO Box 1232 Pa	rk Ridge QLD 4125		
				Laboratory: 4/31 Trade	link Road Hillcrest Q 411	8	
				Telephone:	0437 776 582		
ASC				•	brisbane.south@asct.cor	n au	
					-	11.00	
					0437 776 582		
				A.B.N.	28 608 830 306		
Compaction Control			k Hilf)	Page:	1 of 1		
	MD Construction	•		Report No:			
Client Address: 1	Sandpiper Ave,	Port of Brisbane QLD 42	178	Report Date	e: 17/02/2023		
Project: A	urora Stages 5, (6 & 7 - Bulk Earthworks	Phase	Project No:	1462		
Component: B	ulk Earthworks -	Level 1		Test Reque	st: -		
Lot Number: -				ITP/PCP:			
ample Information & Loo	ation						
ample Number:		79386	79387	79388	-	-	
ield Test Number:		1	2	3	-	-	
Date - Field Tested:		10/02/2023	10/02/2023	10/02/2023	-	-	
ime - Field Tested:		1150	1200	1210	-		
Material Source / Type:		On Site - General Fill		-			
Remarks / Notes:							
		_		_			
Control Line:							
ocation/Chainage/Easting:	(m)	E:5358.2	E:5344.6	E:5340.0	-	-	
Position/Offset/Northing:	(m)	N:13516.0	N:13511.9	N:13509.6	-	-	
.evel/Layer/R.L.		RL:42.0	RL:41.1	RL:40.8	-	-	
ayer Depth:	(mm)	-	-	-	-	-	
Depth Tested:	(mm)	150	150	150	-	-	
ield & Laboratory Result	5						
Field Wet Density:	(t/m³)	2.15	2.18	2.14	-	_	
Field Dry Density:	(t/m ³)		1.99	1.97	_	_	
		3% on 19.0mm	7% on 19.0mm	4% on 19.0mm		_	
Retained Oversize (Wet basis): (%)	5% 011 19.011111	7% 011 19.011111	4% 011 19.011111	-	-	
Material Description:		-	-	-	-	-	
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-	
ield Moisture Content:	(%)	9.0	9.5	8.5	-	-	
Adjusted Lab OMC:	(%)	10.8	11.3	10.7	-	-	
raction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-	
ab Max Converted Wet Den	sity: (t/m³)		2.18	2.15	-	-	
djusted Lab Max CWD:	(t/m ³)		2.19	2.16	-	-	
Compactive Effort:	(4,)	Standard	Standard	Standard	-	-	
Relative Compaction & M	oisture	-	-		I		
Aoisture Variation	(%)	1.5% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	-	-	
/loisture Ratio	(%)	84.0	82.5	81.5	-	-	
ensity Ratio	(%)	96.5	99.5	99.0		-	
Specified Density	Ratio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	95	97.0	3	98.37	1.80	0.739	
Maximum (%)	55	-	-		-	-	
Specified Moisture	P Ratio	- Characteristic Value	- Number of Tests	Mean	- Standard Deviation	- Constant k	
Minimum (%)	-2	81.8	3	82.67	1.16	0.739	
Maximum (%)	-2	83.5	3	82.67	1.16	0.739	
		0.1.1					

AS1289.1.1 (Prep), AS1289.5.4.1 - (Moisture Ratio), AS1289.5.7.1 - (Hilf Density/Moisture Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), , AS 1289.1.2.1, Cl 6.4(b) (Sampling), CV calculations derived from Austroads NTR-09 publication (Not Included in Nata endosrement)

emarks Regarding the Lot.					
Laboratory testing 16/02/20	23				
^	Accredited for compliance	with ISO/IEC 17025 - Testi	ng. The		
NATA	results relate only to the it	ems sampled/tested.			
\checkmark	Accreditation number:	19902		Knisen	
			Approved By:	K.Wesener	
				Approved Signatory	
				WB101 - Rev 11, 0)6/10

t (Nuclear Gauge ons Pty Ltd , Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks - Level 1 79669 1 14/02/2023	178 Phase 79670	A.B.N. Page: Report No: Report Date Project No: Test Reques ITP/PCP: 79671	1462	3
ons Pty Ltd , Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks - Level 1 79669 1	178 Phase 79670	Report No: Report Date Project No: Test Reques ITP/PCP:	3 27/02/202 1462	3
1		70671		
1		79671		
	•	/30/1	79672	79673
14/02/2023	2	3	4	5
, 02, 2025	14/02/2023	14/02/2023	14/02/2023	14/02/2023
1010	1015	1020	1025	1030
On Site - General Fill				
-	-	-	-	-
E:5490.2	E:5498.1	E:5400.2	E:5401.6	E:5487.6
N:13557.7	N:13542.3	N:13529.4	N:13531.2	N:13558.2
RL:52.3	RL:50.4	RL:45.2	RL:44.6	RL:49.3
-	-	-	-	-
150	150	150	150	150
1				
				2.16
				1.96
1% on 19.0mm	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm	3% on 19.0mm
- AC1280-2-1-1 Over	- A£1280.2.1.1 Oven	- AS1280-2-1-1 Oven	- A£1290.2.1.1 Over	- AS1289.2.1.1 - Oven
				10.0
				10.5
				Passing 19.0mm
2.16	2.19	2.17	2.16	2.16
2.16	2.19	2.18	2.17	2.16
Standard	Standard	Standard	Standard	Standard
	2.0% Dryer than OMC	,	At OMC	0.5% Dryer than OM
84.5	84.0	93.0	98.5	95.5
96.5	95.5	97.0	97.5	99.5
Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
96.4	5	97.26	1.57	0.572
•	-	-	-	-
Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
-	-	-	-	-
-	-	-	-	-
	E:5490.2 N:13557.7 RL:52.3 - 150 2.09 1.90 1.90 1.90 1.90 1.90 1.90 1.90 1	E:5490.2 E:5498.1 N:13557.7 N:13542.3 RL:52.3 RL:50.4 - - 150 150 2.09 2.09 1.90 1.89 1% on 19.0mm 2% on 19.0mm - - AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven 10.0 10.5 11.8 12.5 Passing 19.0mm Passing 19.0mm 2.16 2.19 Standard Standard Standard Standard Characteristic Value Number of Tests 96.4 5 - - Characteristic Value Number of Tests	E:5490.2 E:5498.1 E:5400.2 N:13557.7 N:13542.3 N:13529.4 RL:52.3 RL:50.4 RL:45.2 - - - 150 150 150 2.09 2.09 2.11 1.90 1.89 1.92 1% on 19.0mm 2% on 19.0mm 2% on 19.0mm - - - AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven 10.0 10.5 10.0 11.8 12.5 10.7 Passing 19.0mm Passing 19.0mm Passing 19.0mm 2.16 2.19 2.18 Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard 5 97.0 Characteristic Value Number of Tests Mean 96.4 5 97.26 - - - - - -	E:5490.2 E:5498.1 E:5400.2 E:5401.6 N:13557.7 N:13542.3 N:13529.4 N:13531.2 RL:52.3 RL:50.4 RL:45.2 RL:44.6 - - - - 150 150 150 150 2.09 2.09 2.11 2.11 1.90 1.89 1.92 1.92 1% on 19.0mm 2% on 19.0mm 2% on 19.0mm 3% on 19.0mm - - - - - AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven AS1289.2.1.1 - Oven 10.0 10.5 10.0 10.5 10.0 10.5 11.8 12.5 10.7 10.5 10.5 Passing 19.0mm Passing 19.0mm Passing 19.0mm Passing 19.0mm 2.17 2.16 2.19 2.18 2.17 Standard Standard Standard Standard 2.0% Dryer than OMC 2.0% Dryer than OMC 1.0% Dryer than OMC At OMC

ASC	СТ				ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	•		
Compaction Contro	l Test Rep	ort	(Nuclear Gauge		Page:	1 of 2		
Client: Client Address: Project:	BMD Urban P	ty Li we,	·	-	Report No:69Report Date:2/03/2023Project No:1322Test Request:-ITP/PCP:-			
Sample Information & Lo	ocation							
Sample Number:			79915	79916	79917	79918	79919	
Field Test Number:			1	2	3	4	5	
Date - Field Tested:			16/02/2023	16/02/2023	16/02/2023	16/02/2023	16/02/2023	
Time - Field Tested:			1000	1005	1010	1015	1020	
Material Source / Type:			ON SITE - General Fill					
Remarks / Notes:								
Control Line:			-	-	-	-	-	
Location/Chainage/Easting	: (m)	E. 5583.4	E. 5570.8	E. 5571.3	E. 5557.1	E. 5559.4	
Position/Offset/Northing:	(m)	N.13313.1	N. 13338.9	N.13312.9	N.13332.9	N.13316.4	
Level/Layer/R.L.			RL.54.8	RL.54.7	RL.54.5	RL.54.2	RL.53.8	
Layer Depth:	(n	nm)	-	-	-	-	-	
Depth Tested:	(n	nm)	150	150	150	150	150	
Field & Laboratory Resul	ts							
Field Wet Density:	(t/	′m³)	2.13	2.10	2.04	2.06	2.16	
Field Dry Density:	(t/	′m³)	1.94	1.91	1.84	1.85	1.91	
Retained Oversize (Wet bas	sis): (%)	3% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	2% on 19.0mm	
Material Description:			-	-	-	-	-	
Moisture Content Method:			AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	
Field Moisture Content:		%)	10.0	10.0	11.0	11.5	13.0	
Adjusted Lab OMC:	(%)	11.7 Dessing 10.0mm	11.8 Dessing 10.0mm	13.0 Descing 10.0mm	11.9 Descing 10.0mm	12.6	
Fraction Tested:		, 3,	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	
Lab Max Converted Wet De Adjusted Lab Max CWD:		(m ³)	2.19 2.20	2.18 2.18	2.15 2.15	2.17	2.25 2.25	
Compactive Effort:	(t/	′m³)	2.20 Standard	2.18 Standard	2.15 Standard	2.17 Standard	2.25 Standard	
Relative Compaction & N	Moisture		Standard	Standard	Standard	Standard	Standard	
Moisture Variation		%)	2.0% Drver than OMC	2.0% Dryer than OMC	2.0% Drver than OMC	At OMC	At OMC	
Moisture Ratio		%) %)	84.0	84.0	84.0	98.0	101.0	
Density Ratio		%)	97.0	96.0	95.0	95.0	96.0	
Constitut Desti			Characteristic Value	Number of Tests	Maar	Standard Deviation	Constant li	
Specified Densit Minimum (%)	y katio 95		Characteristic Value 95.5	Number of Tests 8	Mean 95.79	0.65	Constant k 0.453	
Maximum (%)	33			-	-	-	-	
Specified Moistu	re Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)			-	-	-	-	-	
Maximum (%)			-	-	-	-	-	
Test Methods Used.								
AS1289.1.1 (Prep), AS128 Transmission), , AS 1289. Remarks Regarding the I Laboratory testing 24/C	1.2.1, Cl 6.4(k .ot.)2/2023 Add re	o) (S	ampling), CV calculation	ns derived from Austroa	ads NTR-09 publication	Not Included in Nata e	•	
	7.				Approved By:	A.Lenkeit Approved Signa	– tory WB101 - Rev 11, 06/10,	

					elink Road Hillcrest Q 41	18
				Telephone:	0437 776 582	
AST				E-Mail:	brisbane.south@asct.co	m.au
ASC				Mobile:	0437 776 582	
		<i></i>		A.B.N.	28 608 830 306	
Compaction Contro	ol Test Repor	t (Nuclear Gauge	& Hilf)	Page:	2 of 2	
	BMD Urban Pty			Report No:	69	
Client Address:	1 Sandpiper Ave	, Port of Brisbane QLD 4	178	Report Dat	e: 2/03/2023	
Project:	Aurora Stage 4			Project No:	1322	
Component:	Level 1 Fill			Test Reque	st: -	
Lot Number:	-			ITP/PCP:		
Comula Information 0.1						
Sample Information & L	ocation	70020	70021	70022		
Sample Number:		79920	79921	79922	•	-
Field Test Number:		6	-	8	-	-
Date - Field Tested:		16/02/2023	16/02/2023	16/02/2023	-	-
Fime - Field Tested:		1025	1030	1035	-	-
Material Source / Type:		ON SITE - General Fill			,	
Remarks / Notes:						
					ļ ļ	
Control Line:		-	-	-	-	-
Location/Chainage/Easting	z: (m)	E. 5578.9	E. 5589.2	E. 5590.6	-	-
-ocation, chamage, Lasting	S. (11)					
Position/Offset/Northing:	()	N.13326.4	N.13313.9	N.13334.6	-	-
rosition/onset/Northing:	(m)					
Level/Layer/R.L.		RL.54.0	RL.53.9	RL.53.7	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	-	-
Field & Laboratory Resu					1	
Field Wet Density:	(t/m ³	2.15	2.13	2.15	-	-
Field Dry Density:	(t/m ³		1.89	1.92	-	-
Retained Oversize (Wet ba		4% on 19.0mm	2% on 19.0mm	3% on 19.0mm	-	-
Material Description:	(70)	4/0 011 15:011111	-	-	-	-
Moisture Content Method		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	
		11.5		12.0		-
Field Moisture Content:	(%)		13.0 12.7	12.0		
Adjusted Lab OMC:	(%)	11.6			-	-
Fraction Tested:	3	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet D			2.22	2.25	-	-
Adjusted Lab Max CWD:	(t/m ³		2.22	2.25	-	-
Compactive Effort:		Standard	Standard	Standard	-	-
Relative Compaction &		-				
Moisture Variation	(%)	At OMC	At OMC	At OMC	-	-
Moisture Ratio	(%)	101.0	101.0	101.0	-	-
Density Ratio	(%)	95.5	96.0	95.5	-	-
Constitut Dans	tu Patio	Characteristic Value	Number of Tests	Maan	Standard Doviation	Constant
Specified Densi		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	95.5	8	95.79	0.65	0.453
Maximum (%)		-	-	-	-	-
Specified Moistu	ıre Ratio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Test Methods Used.						
1 17	.1.2.1, Cl 6.4(b) (Lot.), AS1289.5.8.1 (Nuclear (Not Included in Nata en	•
	Accr	edited for compliance w Its relate only to the iter		ting. The		
		editation number:	19902			

WB101 - Rev 11, 06/10/2022

AS	C.	Т			ASCT Brisbane South Postal: PO Box 1232 Park Ridge QLD 4125 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118 <i>Telephone:</i> 0437 776 582 <i>E-Mail:</i> brisbane.south@asct.com.au <i>Mobile:</i> 0437 776 582 <i>A.B.N.</i> 28 608 830 306 Page: 1 of 1				
			: (Nuclear Gauge a	& Hilf)					
Client: Client Address: Project: Component: Lot Number:	BMD Con 1 Sandpip	struction per Ave, ages 5, 6		178	Page:1 of 1Report No:4Report Date:6/03/2023Project No:1462Test Request:-ITP/PCP:-				
Sample Information 8	& Location				, -				
Sample Number:	x Location		79957	79958	79959	79960	-		
Field Test Number:		·	1	2	3	4	-		
Date - Field Tested:			17/02/2023	17/02/2023	17/02/2023	17/02/2023	-		
Fime - Field Tested:			1200	1205	1210	1215	-		
Material Source / Type:			On site - General Fill						
Remarks / Notes:									
temarks / Notes.			-						
Control Line:			-	-	-	-			
Location/Chainage/East	ing:	(m)	E.5549.8	E.5540.4	E.5543.5	E.5556.0	-		
Position/Offset/Northin	ig:	(m)	N.13384.6	N.13368.7	N.13372.6	N.13387.8	-		
Level/Layer/R.L.			RL.55.0	RL.54.9	RL.54.7	RL.55.1	-		
Layer Depth:		(mm)	-	-	-	-	-		
Depth Tested:		(mm)	150	150	150	150	-		
ield & Laboratory Re	esults								
Field Wet Density:		(t/m ³)	2.15	2.12	2.13	2.08	-		
ield Dry Density:		(t/m ³)	1.95	1.92	1.90	1.87	-		
Retained Oversize (Wet	basis):	(%)	3% on 19.0mm	2% on 19.0mm	0% on 19.0mm	0% on 19.0mm -	-		
Material Description:					-		-		
Moisture Content Meth		(0()	AS1289.2.1.1 - Oven 10.0	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven 11.5	-		
ield Moisture Content: Adjusted Lab OMC:		(%) (%)	10.0	10.0 9.6	12.0 13.2	11.5	-		
Fraction Tested:		(/0)	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-		
Lab Max Converted Wei	t Doncitur	(* /m ³)	2.17	2.21	2.14	2.14			
	,	(t/m ³)	2.17	2.21	2.14	2.14	-		
Adjusted Lab Max CWD: Compactive Effort:	•	(t/m³)	2.16 Standard	Standard	Standard	Standard	-		
Relative Compaction	& Moisture		Stanuaru	Stanuaru	Stanuaru	Stanuaru	-		
Aoisture Variation	amoistare	(%)	1.0% Drver than OMC	0.5% Wetter than OMC	1.0% Dryer than OMC	0.5% Drver than OMC	-		
Aoisture Ratio		(%)	92.0	105.0	91.5	98.0	-		
Density Ratio		(%)	98.5	95.5	99.5	97.5	-		
Creatified De	naitus Dantia		Chave at a vistic Value	Number of Tests	Maan	Chandend Deviation	Constant li		
Specified Der	,		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k		
Minimum (%) Maximum (%)	95		96.7	-	97.80	- 1.64	0.640		
Specified Moi	sture Ratio		- Characteristic Value	- Number of Tests	- Mean	- Standard Deviation	- Constant k		
Minimum (%)			-	-	-	-	-		
Maximum (%)			-	-	-	-	-		
Test Methods Used.					1	1 1			
	89.1.2.1, Cl 6 he Lot.	5.4(b) (S	ampling), CV calculation), AS1289.5.8.1 (Nuclear (Not Included in Nata er	•		
NATA		result	dited for compliance w s relate only to the iten ditation number:	ith ISO/IEC 17025 - Tesi ns sampled/tested. 19902	ting. The Approved By:	<u>A.Lenkeit</u>	7-5-		

AS	C-	Γ			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	rk Ridge QLD 4125 Jink Road Hillcrest Q 41 0437 776 582 brisbane.south@asct.co 0437 776 582 28 608 830 306	
Compaction Cont			(Nuclear Gauge	& Hilf)	Page:	1 of 1	
Client: Client Address: Project: Component: Lot Number:	BMD Cons 1 Sandpip	struction er Ave, ages 5, 6		178	Report No: Report Dat Project No: Test Reque ITP/PCP:	6 e: 8/03/2023 1462	
Sample Information &	Location						
Sample Number:			80287	80288	80289	80290	-
Field Test Number:			1	2	3	4	-
Date - Field Tested:			22/02/2023	22/02/2023	22/02/2023	22/02/2023	-
Time - Field Tested:			0100	1005	1010	1015	-
Material Source / Type:			On Site - General Fill				
Remarks / Notes:							
Control Line:			-	-	-	-	
Location/Chainage/Eastir	ig:	(m)	E.5596.8	E.5584.1	E.5590.1	E.5588.4	-
Position/Offset/Northing	:	(m)	N.13391.0	N.13290.4	N.13285.3	N.13287.6	-
Level/Layer/R.L.			RL.56.9	RL.56.5	RL.56.7	RL.56.6	-
Layer Depth:		(mm)	0	0	0	0	-
Depth Tested:		(mm)	150	150	150	150	-
Field & Laboratory Res	ults						
Field Wet Density:		(t/m ³)	2.15	2.11	2.13	2.10	-
Field Dry Density:		(t/m ³)	1.95	1.91	1.94	1.92	-
Retained Oversize (Wet b	asis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-
Material Description:			-	-	-	-	-
Moisture Content Metho	d:	(0/)	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven 9.5	AS1289.2.1.1 - Oven 9.5	-
Field Moisture Content: Adjusted Lab OMC:		(%) (%)	10.0 11.9	10.5 12.3	9.5	9.5	-
Fraction Tested:		(70)	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	
Lab Max Converted Wet I	Density:	(t/m ³)	2.11	2.12	2.13	2.12	-
Adjusted Lab Max CWD:	Sensity.	(t/m ³)	2.11	2.12	2.13	2.12	-
Compactive Effort:		(0))	Standard	Standard	Standard	Standard	-
Relative Compaction &	Moisture						
Noisture Variation		(%)	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	-
Moisture Ratio		(%)	82.5	83.5	82.0	82.5	-
Density Ratio		(%)	101.5	99.5	99.5	99.0	-
Specified Dens	ity Ratio	1	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95		99.3	4	99.98	1.07	0.640
Maximum (%)			-	-	-	-	-
Specified Moist	ure Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)			-	-	-	-	-
Maximum (%)			-	-	-	-	-
(I <i>n</i>	9.1.2.1, Cl 6 e Lot.	•), AS1289.5.8.1 (Nuclear (Not Included in Nata en	0,
NATA		result	dited for compliance w s relate only to the iten ditation number:	ith ISO/IEC 17025 - Test ns sampled/tested. 19902	ing. The Approved By:	<u>Alenkeit</u>	<u>+</u>

AS	C-	Γ			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	•		
ompaction Con	ntrol Test R	eport	t (Nuclear Gauge	& Hilf)	Page:	1 of 2		
ient: ient Address: roject: omponent: ot Number:	BMD Cons 1 Sandpip	structio er Ave, ages 5,	ns Pty Ltd Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks	178	Report No:5Report Date:8/03/2023Project No:1462Test Request:-ITP/PCP:-			
ample Information	& Location							
mple Number:			80343	80344	80345	80346	80347	
eld Test Number:			1	2	3	4	5	
ate - Field Tested:			21/02/2023	21/02/2023	21/02/2023	21/02/2023	21/02/2023	
me - Field Tested:			1000	1005	1010	1015	1020	
aterial Source / Type	::		On Site - General Fill	ſ		[ſ	
emarks / Notes:								
ontrol Line:			-	-	-	-	-	
ocation/Chainage/Eas	sting:	(m)	E.5573.4	E.5590.2	E.5579.4	E.5583.8	E.5590.2	
osition/Offset/Northi	ng:	(m)	N.13330.1	N.13324.5	N.13311.6	N.13305.3	N.13296.7	
evel/Layer/R.L.			RL.55.8	RL.56.0	RL.55.9	RL.55.9	RL.56.0	
yer Depth:		(mm)	-	-	-	-	-	
epth Tested:		(mm)	150	150	150	150	150	
eld & Laboratory R	esults							
eld Wet Density:		(t/m ³)	2.14	2.10	2.14	2.13	2.15	
eld Dry Density:		(t/m ³)	1.94	1.91	1.95	1.93	1.98	
etained Oversize (We	t basis):	(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	
aterial Description:			-	-	-	-	-	
oisture Content Metl eld Moisture Content		(%)	AS1289.2.1.1 - Oven 10.5	AS1289.2.1.1 - Oven 10.0	AS1289.2.1.1 - Oven 9.5	AS1289.2.1.1 - Oven 10.5	AS1289.2.1.1 - Oven 8.0	
djusted Lab OMC:		(%)	10.9	10.5	10.0	10.5	10.2	
action Tested:		(,,,)	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	
b Max Converted We	et Density:	(t/m ³)	2.16	2.16	2.18	2.15	2.18	
djusted Lab Max CWD	•	(t/m ³)	2.16	2.16	2.18	2.15	2.18	
ompactive Effort:		(4)	Standard	Standard	Standard	Standard	Standard	
elative Compaction	a & Moisture							
oisture Variation		(%)	0.5% Dryer than OMC	0.5% Dryer than OMC	0.5% Dryer than OMC	0.5% Dryer than OMC	2.0% Dryer than OM	
oisture Ratio		(%)	95.0	96.5	97.5	97.5	80.5	
ensity Ratio		(%)	99.0	97.5	98.0	98.5	98.5	
Specified De	ensity Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	95		98.0	6	98.27	0.49	0.523	
Maximum (%)			-	-	-	-	-	
Specified Mo	oisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)			-	-	-	-	-	
Maximum (%)			-		-	-		
est Methods Used.								
\$1289.1.1 (Prep), AS	289.1.2.1, Cl 6 the Lot.	Accre	ampling), CV calculatio	ns derived from Austro ith ISO/IEC 17025 - Test	-	(Not Included in Nata e	•	
NATA		result	s relate o	only to the iter	only to the items sampled/tested.		number: 19902	

				ASCT Brisbane South		
				Postal: PO Box 1232 F	Park Ridge QLD 4125	
					lelink Road Hillcrest Q 41	18
						10
				Telephone:	0437 776 582	
ASC				E-Mail:	brisbane.south@asct.co	om.au
				Mobile:	0437 776 582	
				A.B.N.	28 608 830 306	
Compaction Contro	l Test Reno	rt (Nuclear Gauge)	& Hilf)	Page:	2 of 2	
-		· -	α mm/	-	-	
	BMD Construct			Report No		
		e, Port of Brisbane QLD 4		Report Da		
Project:	Aurora Stages 5	5, 6 & 7 - Bulk Earthworks	Phase	Project No	D: 1462	
Component:	Bulk Earthwork	s - Level 1		Test Requ	est: -	
Lot Number:	-			ITP/PCP:		
Sample Information & Lo	ocation					
Sample Number:		80348	-	-	-	-
Field Test Number:		6	-	-	-	-
Date - Field Tested:		21/02/2023	-	-	-	-
Time - Field Tested:		1025	-	-	-	-
Material Source / Type:		On Site - General Fill				
waterial source / Type.		On Site - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
control Line.						
		E.5568.5	-	-	-	-
Location/Chainage/Easting	: (m					
		N.13336.9	-	_	_	-
Position/Offset/Northing:	(m)				
1		DL EC 4				
Level/Layer/R.L.		RL.56.1	-	-	-	-
Layer Depth:	(mn		-	-	-	-
Depth Tested:	(mn	n) 150	-	-	-	-
Field & Laboratory Resu	lts					
Field Wet Density:	(t/m	³) 2.11	-	-	-	-
Field Dry Density:	(t/m	·	-	-	-	-
		/		1	4	
Retained Oversize (Wet bas	sis): (%		-	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	-	-	-	-
Field Moisture Content:	(%	8.5	-	-	-	-
Adjusted Lab OMC:	(%	10.4	-	-	-	-
Fraction Tested:		Passing 19.0mm	-	-	-	-
Lab Max Converted Wet De	ensity: (t/m		-	-	-	-
Adjusted Lab Max CWD:	(t/m)	'	-	-	-	-
	(1/1			-		
Compactive Effort:		Standard	-	-	-	-
Relative Compaction & N	Moisture					
Moisture Variation	(%	2.0% Dryer than OMC	-	-	-	-
Moisture Ratio	(%	81.5	-	-	-	-
Density Ratio	(%	98.0	-	-	-	-
,	(73)					
Specified Densit	y Ratio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	<i>,</i> 95	98.0	6	98.27	0.49	0.523
Maximum (%)	-	-	-	-	-	
Specified Moistu	re Patio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
	ie kulio					
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Test Methods Used.						
AS1289 1 1 (Pren), AS128	39 5 4 1 - (Mois	ture Ratio), AS1289.5.7.1	- (Hilf Density/Moistu	e Ratio (Rapid Method)). AS1289.5.8.1 (Nuclear	Gauge, Direct
		(Sampling), CV calculation				-
Transmission, , AS 1285.	1.2.1, CI 0.4(D)	(Sampling), ev calculation	iis derived ironi Austro	aus Min-05 publication		luosiementj
Remarks Regarding the I	Lot.					
Laboratory testing 03/0)3/2023					
	۸	redited for compliance w	ith ISO/IEC 1702E T-	ting The		
			-	ung. me		
ΝΑΤΑ	resu	ults relate only to the iten	is sampled/tested.			
× .	Acc	reditation number:	19902			
						W/P101 - Pou 11 06/10/2022
						WB101 - Rev 11, 06/10/2022

ASC	С			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	rk Ridge QLD 4125 Ilink Road Hillcrest Q 41 0437 776 582 brisbane.south@asct.cc 0437 776 582 28 608 830 306	
Compaction Control		(Nuclear Gauge	& Hilf)	Page:	1 of 1	
Client: B Client Address: 1 Project: A	MD Constructio Sandpiper Ave,	ns Pty Ltd Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks	178	Report No: 8 Report Date: 13/03/2023 Project No: 1462 Test Request: - ITP/PCP: -		
Sample Information & Lo	cation					
Sample Number:		80625	80626	80627	80628	-
ield Test Number:		1	2	3	4	-
Date - Field Tested:		24/02/2023	24/02/2023	24/02/2023	24/02/2023	-
Time - Field Tested:		1000	1005	1010	1015	-
Material Source / Type:		On Site - General Fill			1	
Remarks / Notes:						
Control Line:		-	-	-	-	
ocation/Chainage/Easting:	(m)	E:5478.4	E:5497.3	E:5489.4	E:5480.1	-
Position/Offset/Northing:	(m)	N:13391.8	N:13381.8	N:13399.8	N:13365.4	-
.evel/Layer/R.L.		RL:48.0	RL:49.0	RL:49.1	RL:48.9	-
ayer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	-
ield & Laboratory Result						
ield Wet Density:	(t/m ³)	2.15	2.14	2.17	2.15	-
ield Dry Density:	(t/m³)	1.96	1.95	1.99	1.98	-
etained Oversize (Wet basis	s): (%)	0% on 19.0mm	0% on 19.0mm	1% on 19.0mm	0% on 19.0mm	-
Naterial Description:		-	-	-	-	-
Noisture Content Method: ield Moisture Content:	(%)	AS1289.2.1.1 - Oven 9.5	AS1289.2.1.1 - Oven 10.0	AS1289.2.1.1 - Oven 9.5	AS1289.2.1.1 - Oven 8.5	-
djusted Lab OMC:	(%)	10.7	10.0	10.7	10.5	-
raction Tested:	(73)	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
ab Max Converted Wet Der	isity: (t/m³)	2.19	2.16	2.17	2.18	-
djusted Lab Max CWD:	(t/m ³)	2.19	2.16	2.17	2.18	-
Compactive Effort:		Standard	Standard	Standard	Standard	-
elative Compaction & M	oisture					
Ioisture Variation	(%)	1.0% Dryer than OMC	1.5% Dryer than OMC	1.5% Dryer than OMC	2.0% Dryer than OMC	-
Noisture Ratio	(%)	90.5	88.5	87.0	81.0	-
ensity Ratio	(%)	98.0	99.0	100.0	98.5	-
Specified Density	Ratio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.3	4	98.85	0.91	0.640
Maximum (%)		-	-	-		-
Specified Moisture	e Ratio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
		-	-	-	-	-
Minimum (%)		-	-	-	-	-
Minimum (%) Maximum (%) Fest Methods Used.						

ASC		Γ			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	rk Ridge QLD 4125 link Road Hillcrest Q 41 0437 776 582 brisbane.south@asct.cc 0437 776 582 28 608 830 306		
Compaction Contro			(Nuclear Gauge)	& Hilf)	Page:	1 of 1		
Client: Client Address: Project:	BMD Const 1 Sandpipe	tructio er Ave, ges 5, 6	ns Pty Ltd Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks	178	Page. FOI 1 Report No: 9 Report Date: 15/03/2023 Project No: 1462 Test Request: - ITP/PCP: -			
Sample Information & L	ocation							
Sample Number:			80629	80630	80631	80632	-	
Field Test Number:			1	2	3	4	-	
Date - Field Tested:			27/02/2023	24/02/2023	24/02/2023	24/02/2023	-	
ime - Field Tested:			1400	1405	1410	1415	-	
Naterial Source / Type:			On Site - General Fill					
Remarks / Notes:								
Control Line:			-	-	-	-		
ocation/Chainage/Easting	;:	(m)	E:5421.3	E:5411.8	E:5483.0	E:5485.2	-	
Position/Offset/Northing:		(m)	N:13324.9	N:13322.1	N:13369.7	N:13396.3	-	
.evel/Layer/R.L.			RL:48.1	RL:49.9	RL:49.1	RL:49.0	-	
ayer Depth:		(mm)	-	-	-	-	-	
Depth Tested:		(mm)	150	150	150	150	-	
ield & Laboratory Resu	lts	3	2.45	2.42	2.45	2.42		
ield Wet Density:		(t/m^3)	2.15	2.12	2.15	2.19	-	
ield Dry Density: etained Oversize (Wet ba	cic).	(t/m ³) (%)	1.97 0% on 19.0mm	1.95 0% on 19.0mm	1.98 0% on 19.0mm	2.01 0% on 19.0mm	-	
Aterial Description:	515].	(70)	-	-	-	-	-	
Noisture Content Method:	:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven		
ield Moisture Content:		(%)	9.0	9.0	9.0	9.0	-	
djusted Lab OMC:		(%)	11.2	10.3	10.6	10.9	-	
raction Tested:			Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	
ab Max Converted Wet De	ensity:	(t/m ³)	2.10	2.12	2.12	2.13	-	
Adjusted Lab Max CWD:		(t/m ³)	2.10	2.12	2.12	2.13	-	
Compactive Effort:			Standard	Standard	Standard	Standard	-	
Relative Compaction & I	Moisture							
Noisture Variation			1		2.0% Dryer than OMC		-	
Aoisture Ratio		(%) (%)	82.0	85.5	83.0	81.5	-	
ensity Ratio		(%)	102.0	100.0	102.0	102.5	-	
Specified Densi	-		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	95		100.8	4	101.63	1.27	0.640	
Maximum (%)	uro Bati-		-	- Number of Toot-	-	- Standard Deviation	-	
Specified Moistu	ire Katio		Characteristic Value	Number of Tests	Mean -	Standard Deviation	Constant k	
Minimum (%) Maximum (%)			-	-	-	-	-	
, ,			-	-	-		-	
Test Methods Used. AS1289.1.1 (Prep), AS128 Transmission), , AS 1289 Remarks Regarding the Laboratory testing 09/0	.1.2.1, Cl 6. Lot.	4(b) (S Accre result	ampling), CV calculatio	ns derived from Austro ith ISO/IEC 17025 - Test	ads NTR-09 publication	(Not Included in Nata en		
					Approved By:	A.Lenkeit Approved Signat	O ry WB101 - Rev 11, 06/10/2	

Г			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	•		
Report	t (Nuclear Gauge	& Hilf)	Page:	1 of 2		
nstructio per Ave, tages 5,	ns Pty Ltd Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks	178	Report No:10Report Date:17/03/2023Project No:1462Test Request:-ITP/PCP:-			
	80838	80839	80840	80841	80842	
	1	2	3	4	5	
	1/03/2023	1/03/2023	1/03/2023	1/03/2023	1/03/2023	
	1430	1435	1440	1445	1450	
	On Site - General Fill					
	-	-	-	-	-	
(m)	E:5504.2	E:5516.1	E:5516.0	E:5530.2	E:5522.6	
(m)	N:13372.6	N:13363.9	N:13341.3	N:13337.0	N:13334.1	
	RL:50.6	RL:50.7	RL:50.8	RL:51.1	RL:50.8	
(mm)	-	-	-	-	-	
(mm)	150	150	150	150	150	
					2.13	
				-	1.96	
(%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	
	-	-	-	-	-	
(9/)					AS1289.2.1.1 - Oven 8.5	
					9.9	
(,,,)					Passing 19.0mm	
(t/m ³)	-	-	-	-	2.17	
	2.16	2.18	2.19	2.18	2.17	
	Standard	Standard	Standard	Standard	Standard	
(%)	1.5% Dryer than OMC	0.5% Dryer than OMC	3.0% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMO	
(%)	84.5	93.0	71.5	79.0	83.5	
(%)	99.5	102.0	96.0	99.5	98.0	
	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
5	98.6	9	99.44	1.91	0.427	
	-	-	-	-	-	
	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
	-	-	-	-	-	
	-	-	-	-	-	
	cer Ave, tages 5, hworks - (m) (m) (m) (m) (m) (m) (m) (m) (m) (m)	stages 5, 6 & 7 - Bulk Earthworks 80838 1 1/03/2023 1430 On Site - General Fill 0 E:5504.2 (m) E:5504.2 (m) RL:50.6 (mm) - (t/m³) 2.15 (t/m³) 0% on 19.0mm (%) 0% on 19.0mm (%) 8.5 (%) 10.1 Passing 19.0mm Characteristic Value (%) 84.5 (%) 84.5 (%) 99.5	Best Ave, Port of Brisbane QLD 4178 tages 5, 6 & 7 - Bulk Earthworks Phase hworks - Level 1 80838 80839 1 2 1/03/2023 1/03/2023 1430 1435 On Site - General Fill - (m) E:5504.2 E:5516.1 (m) N:13372.6 N:13363.9 RL:50.6 RL:50.7 - (mm) - - (mm) - - (t/m³) 2.15 2.22 (t/m³) 0.00 nn 19.0mm 0% on 19.0mm (%) 8.5 9.5 (%) 8.5 9.5 (%) 8.5 9.5 (%) 2.16 2.18 (t/m³) 2.16 2.18 (t/m³) 2.16 2.18 (%) 8.5 9.5 (%) 8.13 2.16 2.18 (%) 8.4.5 93.0 (%) 84.5 93.0 (%	Ber Ave, Port of Brisbane QLD 4178 Report Dat. tages 5, 6 & 7 - Bulk Earthworks Phase Project No: hworks - Level 1 Test Reque 1 2 3 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 1/03/2023 E:5516.1 E:5516.0 (m) N:13372.6 N:13363.9	Ber Ave, Port of Brisbane QLD 4178 Report Date: 17/03/202. tages 5, 6 & 7 - Bulk Earthworks Phase Project No: 1462 hworks - Level 1 Test Request: Image: Image of the state	

ASC	Т			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	ark Ridge QLD 4125 elink Road Hillcrest Q 41 0437 776 582 brisbane.south@asct.cc 0437 776 582 28 608 830 306		
Compaction Control T	est Report	(Nuclear Gauge	& Hilf)	Page:	2 of 2		
Client: BMI Client Address: 1 Sa Project: Aur	AD Constructions Pty Ltd Sandpiper Ave, Port of Brisbane QLD 4178 Irora Stages 5, 6 & 7 - Bulk Earthworks Phase Ik Earthworks - Level 1			Report No: 10 Report Date: 17/03/2023 Project No: 1462 Test Request: - ITP/PCP: -			
Sample Information & Locat	ion						
Sample Number:		80843	80844	80845	80846	-	
Field Test Number:		6	7	8	9	-	
Date - Field Tested:		1/03/2023	1/03/2023	1/03/2023	1/03/2023	-	
Time - Field Tested:		1455	1500	1505	1510	-	
Material Source / Type:		On Site - General Fill	1500	1505	1510		
Remarks / Notes:		On site - General I in					
Control Line:		-	-	-	-	-	
		E:5501.2	E:5511.2	E:5515.2	E:5529.8	-	
Location/Chainage/Easting:	(m)	N:13369.6	N:13362.3	N:13340.9	N:13332.6		
Position/Offset/Northing:	(m)						
Level/Layer/R.L.		RL:49.9	RL:50.2	RL:50.5	RL:50.0	-	
Layer Depth:	(mm)	-	-	-	-	-	
Depth Tested:	(mm)	150	150	150	150	-	
Field & Laboratory Results							
Field Wet Density:	(t/m³)	2.14	2.13	2.21	2.22	-	
Field Dry Density:	(t/m ³)	2.00	1.96	2.04	2.04	-	
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	
Material Description:		-	-	-	-	-	
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	
Field Moisture Content:	(%)	7.0	9.0	8.0	8.5	-	
Adjusted Lab OMC:	(%)	10.1	10.7	9.5	10.2	-	
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	
Lab Max Converted Wet Densit	y: (t/m³)	2.15	2.17	2.18	2.18	-	
Adjusted Lab Max CWD:	(t/m ³)	2.16	2.17	2.18	2.18	-	
Compactive Effort:		Standard	Standard	Standard	Standard	-	
Relative Compaction & Moi	sture						
Moisture Variation	(%)	3.0% Dryer than OMC	2.0% Dryer than OMC	1.5% Dryer than OMC	1.5% Dryer than OMC	-	
Moisture Ratio	(%)	69.5	83.5	85.5	84.5	-	
Density Ratio	(%)	99.0	98.0	101.0	101.5	-	
•						_	
Specified Density Ro		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	95	98.6	9	99.44	1.91	0.427	
Maximum (%)		-	-	-	-	-	
Specified Moisture R	atio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)		-	-	-	-	-	
Maximum (%)		-	-	-	-	-	
Test Methods Used.							
AS1289.1.1 (Prep), AS1289.5	.4.1 - (Moistu	re Ratio), AS1289.5.7.1	- (Hilf Density/Moistur	e Ratio (Rapid Method)), AS1289.5.8.1 (Nuclear	Gauge, Direct	
Transmission), , AS 1289.1.2. Remarks Regarding the Lot. Laboratory testing 16/03/2	1, Cl 6.4(b) (S					-	
	A	dited for some line of	ith ISO/IEC 17025 T	ting The			
NATA		dited for compliance w s relate only to the iter	ith ISO/IEC 17025 - Test ns sampled/tested.	ung. The			
×	Accre	ditation number:	19902				

AS	CT				ASCT Brisbane South Postal: PO Box 1232 Park Ridge QLD 4125 Laboratory: 4/31 Tradelink Road Hillcrest Q 4118 <i>Telephone:</i> 0437 776 582 <i>E-Mail:</i> brisbane.south@asct.com.au <i>Mobile:</i> 0437 776 582 <i>A.B.N.</i> 28 608 830 306			
Compaction Cont	rol Test Rep	port	: (Nuclear Gauge a	& Hilf)	Page:	1 of 2		
Client: Client Address: Project: Component: Lot Number:	BMD Constru 1 Sandpiper	uctio Ave, es 5, 6	ns Pty Ltd Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks	178	Report No:12Report Date:21/03/2023Project No:1462Test Request:-ITP/PCP:-			
Sample Information &	Location				1			
Sample Number:			80948	80949	80950	80951	80952	
Field Test Number:			1	2	3	4	5	
Date - Field Tested:			2/03/2023	2/03/2023	2/03/2023	2/03/2023	2/03/2023	
Time - Field Tested:			1000 On Site Conord Sill	1005	1010	1015	1020	
Material Source / Type:			On Site - General Fill					
Remarks / Notes:								
Control Line:			-	-	-	-	-	
Location/Chainage/Eastin	ng:	(m)	E:5509.2	E:5519.2	E:5516.2	E:5532.6	E:5521.6	
Position/Offset/Northing	;;	(m)	N:13370.6	N:13365.2	N:13342.4	N:13338.2	N:13334.9	
Level/Layer/R.L.			RL:51.0	RL:51.3	RL:51.2	RL:51.0	RL:51.5	
Layer Depth:	((mm)	-	-	-	-	-	
Depth Tested:	((mm)	150	150	150	150	150	
Field & Laboratory Res	sults							
Field Wet Density:		t/m³)	2.05	2.18	2.14	2.10	2.19	
Field Dry Density:		t/m³)	1.84	1.95	1.93	1.90	2.00	
Retained Oversize (Wet b	basis):	(%)	0% on 19.0mm	5% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	
Material Description:	. al.		- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	
Moisture Content Metho Field Moisture Content:		(%)	11.5	11.5	11.0	10.5	9.5	
Adjusted Lab OMC:		(%)	11.5	11.5	11.0	10.9	11.4	
Fraction Tested:		(, -)	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	
Lab Max Converted Wet	Density: (†	t/m³)	2.15	2.20	2.20	2.20	2.24	
Adjusted Lab Max CWD:	(1	t/m³)	2.15	2.21	2.20	2.20	2.24	
Compactive Effort:			Standard	Standard	Standard	Standard	Standard	
Relative Compaction 8	k Moisture							
Moisture Variation			0.5% Dryer than OMC	At OMC	At OMC	0.5% Dryer than OMC		
Moisture Ratio		(%)	97.0	99.0	98.0	97.5	85.0	
Density Ratio		(%)	95.5	98.5	97.0	95.0	98.0	
Specified Den	sity Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	95		96.1	10	96.93	2.02	0.405	
Maximum (%)			-	-	-	-	-	
Specified Mois	ture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)			-	-	-	-	-	
Maximum (%) Test Methods Used.	1		-	-	-	-	-	
AS1289.1.1 (Prep), AS1	9.1.2.1, Cl 6.4(e Lot.), AS1289.5.8.1 (Nuclea (Not Included in Nata e	•	
NATA	r	esult	dited for compliance wi s relate only to the iten ditation number:		ting. The Approved By:	A.Lenkeit Approved Signa	tory WB101 - Rev 11, 06/10/202	

ASC				ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	elink Road Hillcrest Q 4 0437 776 582 brisbane.south@asct.c 0437 776 582 28 608 830 306		
Compaction Control Te	est Report	(Nuclear Gauge	& Hilf)	Page:	2 of 2		
Client Address: 1 San Project: Auro	• • • •	Port of Brisbane QLD 4 5 & 7 - Bulk Earthworks		Report No:12Report Date:21/03/2023Project No:1462Test Request:-ITP/PCP:-			
Sample Information & Location	on			-			
Sample Number:		80953	80954	80955	80956	80957	
Field Test Number:		6	7	8	9	10	
Date - Field Tested:		2/03/2023	2/03/2023	2/03/2023	2/03/2023	2/03/2023	
Fime - Field Tested:		1025	1030	1035	1040	1045	
Material Source / Type:		On Site - General Fill	ſ	1		1	
Remarks / Notes:							
Control Line:		-	-	-	-	-	
Location/Chainage/Easting:	(m)	E:5511.2	E:5519.4	E:5506.2	E:5536.9	E:5522.7	
Position/Offset/Northing:	(m)	N:13362.6	N:13360.2	N:13345.4	N:13340.2	N:13339.6	
Level/Layer/R.L.		RL:51.9	RL:51.9	RL:52.0	RL:51.8	RL:52.1	
Layer Depth:	(mm)	-	-	-	-	-	
Depth Tested:	(mm)	150	150	150	150	150	
ield & Laboratory Results							
ield Wet Density:	(t/m ³)	2.08	2.22	2.10	2.06	2.08	
Field Dry Density:	(t/m ³)	1.87	1.99	1.90	1.85	1.88	
Retained Oversize (Wet basis):	(%)	0% on 19.0mm	2% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	
Material Description: Moisture Content Method:		- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Ove	
Field Moisture Content:	(%)	11.0	11.5	10.5	11.5	10.5	
Adjusted Lab OMC:	(%)	11.0	11.5	10.5	11.9	10.5	
Fraction Tested:	()	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	
Lab Max Converted Wet Density	: (t/m ³)	2.16	2.18	2.17	2.16	2.19	
, Adjusted Lab Max CWD:	(t/m ³)	2.16	2.18	2.17	2.16	2.19	
Compactive Effort:		Standard	Standard	Standard	Standard	Standard	
Relative Compaction & Moist	ure						
Aoisture Variation	(%)	At OMC	At OMC	At OMC	0.5% Dryer than OMC	0.5% Dryer than ON	
Moisture Ratio	(%)	98.5	98.0	98.5	97.0	96.5	
Density Ratio	(%)	96.0	101.5	96.5	95.5	95.0	
Specified Density Rat	tio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	<i>9</i> 5	96.1	10	96.93	2.02	0.405	
Maximum (%)		-	-	-	-	-	
Specified Moisture Ra	itio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)		-	-	-	-	-	
Maximum (%)		-	-	-	-	-	
Maximum (%) Test Methods Used. AS1289.1.1 (Prep), AS1289.5.4 Transmission), , AS 1289.1.2.1 Remarks Regarding the Lot. Laboratory testing 20/03/20	, Cl 6.4(b) (S 23 Accre	re Ratio), AS1289.5.7.1 ampling), CV calculatio	- (Hilf Density/Moistur ns derived from Austro ith ISO/IEC 17025 - Tes	e Ratio (Rapid Method) ads NTR-09 publication), AS1289.5.8.1 (Nuclea	r Gauge, Direct	
		ditation number:	19902				

WB101 - Rev 11, 06/10/2022

ASC	т			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	ark Ridge QLD 4125 elink Road Hillcrest Q 4 0437 776 582 brisbane.south@asct.c 0437 776 582 28 608 830 306		
Compaction Control T	est Report	(Nuclear Gauge	& Hilf)	Page: 1 of 2			
Client: BMI Client Address: 1 Sa Project: Auro	D Construction ndpiper Ave,	ns Pty Ltd Port of Brisbane QLD 4 5 & 7 - Bulk Earthworks	178	Report No:11Report Date:17/03/2023Project No:1462Test Request:-ITP/PCP:-			
Sample Information & Locat	ion			1	1	1	
Sample Number:	-	81090	81091	81092	81093	81094	
Field Test Number:	-	1	2	3	4	5	
Date - Field Tested:	-	3/03/2023	3/03/2023	3/03/2023	3/03/2023	3/03/2023	
Time - Field Tested: Material Source / Type:	ŀ	1005 On Site - General Fill	1015	1020	1025	1030	
Material Source / Type:	-	On Site - General Fill					
Remarks / Notes:							
Control Line:		-	-	-	-	-	
Location/Chainage/Easting:	(m)	E:4515.1	E:5504.2	E:5503.0	E:5496.6	E:5507.2	
Position/Offset/Northing:	(m)	N:13345.7	N:13343.4	N:13357.6	N:13372.3	N:13376.4	
Level/Layer/R.L.		RL:51.1	RL:44.9	RL:49.9	RL:49.7	RL:50.9	
Layer Depth:	(mm)	-	-	-	-	-	
Depth Tested:	(mm)	150	150	150	150	150	
Field & Laboratory Results	<i>(</i> , <i>f</i> , 3)	2.44	2.42	2.42	2.11	2.40	
Field Wet Density: Field Dry Density:	(t/m ³) (t/m ³)	2.11	2.12	2.13 1.96	2.11 1.94	2.19 1.99	
Retained Oversize (Wet basis):	((/11))	3% on 19.0mm	1.95 1% on 19.0mm	3% on 19.0mm	1.94 1% on 19.0mm	1% on 19.0mm	
Material Description:	(/0)	-	-	-	-	-	
Moisture Content Method:	-	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	
Field Moisture Content:	(%)	10.5	10.0	9.0	9.0	9.5	
Adjusted Lab OMC:	(%)	11.7	11.6	11.0	10.9	11.6	
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	
Lab Max Converted Wet Densit	y: (t/m³)	2.19	2.17	2.19	2.20	2.18	
Adjusted Lab Max CWD:	(t/m³)	2.19	2.17	2.19	2.20	2.18	
Compactive Effort:		Standard	Standard	Standard	Standard	Standard	
Relative Compaction & Mois							
Moisture Variation	(%) (%)	1.5% Dryer than OMC 88.0	2.0% Dryer than OMC 84.0	2.0% Dryer than OMC 81.5	2.0% Dryer than OMC 80.5	2.0% Dryer than OM 82.5	
Moisture Ratio Density Ratio	(%) (%)	96.5	97.5	97.5	96.0	100.0	
•							
Specified Density Ro		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	95	97.3	10	97.88	1.40	0.405	
Maximum (%) Specified Moisture R	atio	- Characteristic Value	- Number of Tests	- Mean	- Standard Deviation	- Constant k	
Minimum (%)	4.10	-	-	-	-	-	
Maximum (%)		-	-	-	-	-	
Test Methods Used.				1	1	1	
AS1289.1.1 (Prep), AS1289.5 Transmission), , AS 1289.1.2. Remarks Regarding the Lot. Laboratory testing 14/02/2	1, Cl 6.4(b) (Si 023 to 14/03,	ampling), CV calculatio		ads NTR-09 publication			
NATA		s relate only to the iten	ns sampled/tested.	Approved By:	<u>A.Lenkeit</u>	1	
					Approved Signa	tory WB101 - Rev 11, 06/10/202	

ASC ⁻	Т			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	ark Ridge QLD 4125 elink Road Hillcrest Q 4: 0437 776 582 brisbane.south@asct.c 0437 776 582 28 608 830 306		
Compaction Control Test	Report	: (Nuclear Gauge	& Hilf)	Page:	2 of 2		
		ns Pty Ltd		Report No:	-		
Client Address: 1 Sandp Project: Aurora	iper Ave,	Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks		Report No: 11 Report Date: 17/03/2023 Project No: 1462 Test Request: -			
Lot Number: -				ITP/PCP:			
Sample Information & Location							
Sample Number:		81095	81096	81097	81098	81099	
Field Test Number:		6	7	81037	9	10	
Date - Field Tested:		3/03/2023	3/03/2023	3/03/2023	3/03/2023	3/03/2023	
Time - Field Tested:		1035	1040	1045	1050	1100	
Material Source / Type:		On Site - General Fill	1040	1045	1050	1100	
Remarks / Notes:		offolde General III					
Control Line:		-	-	-	-	-	
control Lille.							
Location/Chainage/Easting:	(m)	E:4510.1	E:5509.3	E:5513.6	E:5496.0	E:5509.1	
Position/Offset/Northing:	(m)	N:13346.9	N:13346.5	N:13358.9	N:13372.6	N:13370.2	
Level/Layer/R.L.	(100.000)	RL:50.9	RL:43.9	RL:49.3	RL:49.2	RL:50.5	
Layer Depth: Depth Tested:	(mm) (mm)	150	150	150	- 150	- 150	
Field & Laboratory Results	(11111)	150	150	150	150	150	
Field Wet Density:	(t/m ³)	2.19	2.12	2.15	2.14	2.14	
Field Dry Density:	(t/m ³)	2.00	1.93	1.96	1.97	1.96	
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	1% on 19.0mm	1% on 19.0mm	2% on 19.0mm	
Material Description:	. ,	-	-	-	-	-	
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Over	
Field Moisture Content:	(%)	9.5	10.0	9.5	9.0	9.0	
Adjusted Lab OMC:	(%)	11.7	11.7	11.3	10.7	11.0	
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	
Lab Max Converted Wet Density:	(t/m³)	2.19	2.17	2.18	2.20	2.19	
Adjusted Lab Max CWD:	(t/m³)	2.19	2.17	2.18	2.20	2.19	
Compactive Effort:		Standard	Standard	Standard	Standard	Standard	
Relative Compaction & Moistur	-						
Moisture Variation					2.0% Dryer than OMC		
Moisture Ratio	(%)	82.5	84.0	84.0	82.5	83.0	
Density Ratio	(%)	100.0	97.5	99.0	97.0	97.5	
Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
	5	97.3	10	97.88	1.40	0.405	
Maximum (%)		-	-	-	-	-	
Specified Moisture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)		-	-	-	-	-	
Maximum (%)		-	-	-	-	-	
Test Methods Used.							
AS1289.1.1 (Prep), AS1289.5.4.1 Transmission), , AS 1289.1.2.1, C Remarks Regarding the Lot. Laboratory testing 14/02/2023	6.4(b) (S	ampling), CV calculatio				-	
NATA	result	dited for compliance w s relate only to the iten ditation number:		ing. The			
	AUTE	anation number.	15502			WB101 - Rev 11, 06/10/20	

AS	C	Γ			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 15 Elliott C Telephone: E-Mail: Mobile: A.B.N.	ark Ridge QLD 4125 Court Hillcrest, QLD 411 (07) 3800 7314 brisbane.south@asct.c 0437 776 582 28 608 830 306		
Compaction Contr	rol Test R	eport	(Nuclear Gauge		Page:	1 of 3		
Client: Client Address: Project: Component: Lot Number:	BMD Cons 1 Sandpipe Aurora Sta	Constructions Pty Ltd hdpiper Ave, Port of Brisbane QLD 4178 ra Stages 5, 6 & 7 - Bulk Earthworks Phase Earthworks - Level 1			Report No:14Report Date:23/03/2023Project No:1462Test Request:-ITP/PCP:-			
Sample Information &	Location							
Sample Number:			81260	81261	81262	81263	81264	
Field Test Number:			1	2	3	4	5	
Date - Field Tested:			7/03/2023	7/03/2023	7/03/2023	7/03/2023	7/03/2023	
Time - Field Tested:			1505	1510	1515	1525	1535	
Material Source / Type:			On Site - General Fill			1	1	
Remarks / Notes:								
Control Line:			Lot 527	Lot 526	Lot 523	Lot 522	Lot 521	
Location/Chainage/Eastin	ig:	(m)	12m off East Boundary	11m off East Boundary	3m off East Boundary	5m off East Boundary	6m off East Boundary	
Position/Offset/Northing:		(m)	9m off South	7m off South	11m off South	4m off South	17m off South	
rosition, onset, northing.		(11)	Boundary	Boundary	Boundary	Boundary	Boundary	
Level/Layer/R.L.			F/L	0.4m BFL	F/L	0.5m BFL	F/L	
Layer Depth:		(mm)	-	-	-	-	-	
Depth Tested:		(mm)	150	150	150	150	150	
Field & Laboratory Res	ults							
Field Wet Density:		(t/m³)	2.11	2.08	2.10	2.10	2.08	
Field Dry Density:		(t/m³)	1.93	1.89	1.91	1.93	1.90	
Retained Oversize (Wet b	asis):	(%)	1% on 19.0mm	7% on 19.0mm	2% on 19.0mm	5% on 19.0mm	4% on 19.0mm	
Material Description:			-	-	-	-	-	
Moisture Content Method	d:	(0/)	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	
Field Moisture Content: Adjusted Lab OMC:		(%) (%)	9.0 11.0	10.0 11.3	9.5 9.5	9.0 10.9	9.5 11.0	
Fraction Tested:		(70)	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	
Lab Max Converted Wet I	Density:	(t/m ³)	2.13	2.12	2.12	2.15	2.13	
Adjusted Lab Max CWD:	Sensity.	(t/m ³)	2.13	2.12	2.12	2.16	2.13	
Compactive Effort:		(4,)	Standard	Standard	Standard	Standard	Standard	
Relative Compaction &	Moisture					•		
Moisture Variation		(%)	2.0% Dryer than OMC	1.5% Dryer than OMC	At OMC	1.5% Dryer than OMC	1.5% Dryer than OMC	
Moisture Ratio		(%)	83.0	87.0	102.0	84.0	87.0	
Density Ratio		(%)	99.0	96.5	98.5	97.0	97.5	
Specified Dens	ity Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	95		97.5	12	98.03	1.58	0.370	
Maximum (%)			-	-	-	-	-	
Specified Moist	ure Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)			-	-	-	-	-	
Maximum (%)			-	-	-	-	-	
Test Methods Used.								
Test Methods Used. AS1289.1.1 (Prep), AS12 Transmission), , AS 128 Remarks Regarding the Laboratory testing 17,	9.1.2.1, Cl 6 e Lot.	.4(b) (S Accre result	ampling), CV calculatio	ns derived from Austroa	ing. The	(Not Included in Nata e	•	
					Approved By:	A.Lenkeit Approved Signa	tory WB101 - Rev 11, 06/10/202	

ASC	T			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 15 Elliott C Telephone: E-Mail: Mobile: A.B.N.	ark Ridge QLD 4125 Court Hillcrest, QLD 411 (07) 3800 7314 brisbane.south@asct.c 0437 776 582 28 608 830 306	
Compaction Control T	est Report	(Nuclear Gauge	& Hilf)	Page:	2 of 3	
	D Construction		•	Report No:	14	
Client Address: 1 Sa	andpiper Ave,	Port of Brisbane QLD 4	178	Report Dat	e: 23/03/202	3
Project: Aur	ora Stages 5, 6	6 & 7 - Bulk Earthworks	Phase	Project No:	1462	
Component: Bul	k Earthworks -	Level 1		Test Reque	est: -	
Lot Number: -				ITP/PCP:		
Sample Information & Loca	tion					
Sample Number:	lion	81265	81266	81267	81268	81269
Field Test Number:		6	7	8	9	10
Date - Field Tested:	ł	7/03/2023	7/03/2023	7/03/2023	7/03/2023	7/03/2023
Time - Field Tested:	•	1555	1600	1605	1615	1620
Material Source / Type:	ł	On Site - General Fill	1000	1005	1015	1020
	-	endite etherarin				
Remarks / Notes:						
	ł	Lot 520	Lot 519	Lot 625	Lot 773	Lot 774
Control Line:						
Location/Chainage/Easting:	(m)	4m off East Boundary	3m off East Boundary	13m off East Boundary	6m off East Boundary	5m off East Boundar
	, . I	5m off South	15m off South	4m off South	27m off South	18m off South
Position/Offset/Northing:	(m)	Boundary	Boundary	Boundary	Boundary	Boundary
Level/Layer/R.L.		F/L	0.6m BFL	F/L	F/L	F/L
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150
Field & Laboratory Results						
Field Wet Density:	(t/m ³)	2.05	2.11	2.07	2.09	2.09
Field Dry Density:	(t/m³)	1.88	1.94	1.84	1.89	1.89
Retained Oversize (Wet basis):	(%)	5% on 19.0mm	3% on 19.0mm	4% on 19.0mm	1% on 19.0mm	3% on 19.0mm
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Over
Field Moisture Content:	(%)	9.0	8.5	12.0	11.0	10.5
Adjusted Lab OMC:	(%)	10.8	9.7	14.1	12.3	12.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet Densi		2.12	2.16	2.06	2.08	2.11
Adjusted Lab Max CWD:	(t/m³)	2.13	2.17	2.07	2.08	2.12
Compactive Effort:		Standard	Standard	Standard	Standard	Standard
Relative Compaction & Moi						
Moisture Variation	-				1.5% Dryer than OMC	
Moisture Ratio	(%)	84.5	85.5	86.5	89.0	84.5
Density Ratio	(%)	96.0	97.0	100.0	100.5	98.5
Specified Density R	atio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.5	12	98.03	1.58	0.370
Maximum (%)		-	-	-	-	-
Specified Moisture I	Ratio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-		-	-
Maximum (%)		-	-	-	-	-
Fest Methods Used.						
AS1289.1.1 (Prep), AS1289.5 Fransmission), , AS 1289.1.2 Remarks Regarding the Lot. Laboratory testing 17/03/2	.1, Cl 6.4(b) (S					•
NATA	result	dited for compliance w s relate only to the iter ditation number:	ith ISO/IEC 17025 - Test ns sampled/tested. 19902	ing. The		
						WB101 - Rev 11, 06/10/20

ASC1 Compaction Control Test Re	Γ				Park Ridge QLD 4125 t Court Hillcrest, QLD 4118 (07) 3800 7314 brisbane.south@asct.coi 0437 776 582	m.au
•				A.B.N.	28 608 830 306	
	port	(Nuclear Gauge	& Hilf)	Page:	3 of 3	
	r Ave, I ges 5, 6	Port of Brisbane QLD 4 5 & 7 - Bulk Earthworks		Report N Report D Project N Test Req ITP/PCP:	ate: 23/03/2023 lo: 1462 uest: -	
Sample Information & Location						
Sample Number:		81270	81271	-	-	-
Field Test Number:		11	12	-	-	-
Date - Field Tested:		7/03/2023	7/03/2023	-	-	-
Time - Field Tested:		1625	1630	-	-	-
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
Control Line:		Lot 775	Lot 776	-	-	-
Location/Chainage/Easting:	(m)	7m off East Boundary	4m off East Boundary	-	-	-
Position/Offset/Northing:	(m)	29m off South Boundary	16m off South Boundary	-	-	-
Level/Layer/R.L.		F/L	F/L	-	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	-	-	-
Field & Laboratory Results						
Field Wet Density:	(t/m ³)	2.08	2.06	-	-	-
Field Dry Density:	(t/m ³)	1.88	1.88	-	-	-
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	4% on 19.0mm	-	-	-
Material Description:		-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-	-
Field Moisture Content:	(%)	10.5	9.5	-	-	-
Adjusted Lab OMC:	(%)	12.5	11.7	-	-	-
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	-	-	-
	(t/m ³)	2.07	2.14	-	-	-
•	(t/m ³)	2.08	2.15	-	-	-
Compactive Effort:		Standard	Standard	-	-	-
Relative Compaction & Moisture						
Moisture Variation	-	2.0% Dryer than OMC				-
Moisture Ratio	(%)	84.0	83.0	-	-	-
Density Ratio	(%)	100.0	96.0	-	· ·	-
		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Specified Density Ratio		97.5	12	98.03	1.58	0.370
		-	-	-	- 1	-
Specified Density Ratio				Mean	Standard Deviation	Constant k
Specified Density Ratio Minimum (%) 95		Characteristic Value	Number of Tests			COnstant K
Specified Density Ratio Minimum (%) 95 Maximum (%)		Characteristic Value -	Number of Tests -	-	-	-
Specified Density Ratio Minimum (%) 95 Maximum (%) Specified Moisture Ratio		Characteristic Value - -	Number of Tests - -			- -

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AS	C	Γ			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	•		
Compaction Contr	ol Test R	eport	(Nuclear Gauge	& Hilf)	Page:	1 of 2		
Client: Client Address:	BMD Cons	tructio			Report No: Report Date	13	3	
Project: Component: Lot Number:	Aurora Sta	Aurora Stages 5, 6 & 7 - Bulk Earthworks Phase Bulk Earthworks - Level 1			Project No: 1462 Test Request: - ITP/PCP:			
Sample Information &	Location							
Sample Number:			81609	81610	81611	81612	81613	
Field Test Number:			1	2	3	4	5	
Date - Field Tested:			6/03/2023	6/03/2023	6/03/2023	6/03/2023	6/03/2023	
Time - Field Tested:			1000	1005	1010	1015	1020	
Material Source / Type:			Onsite - General Fill				-	
Remarks / Notes:								
Control Line:			-	-	-	-	-	
Location/Chainage/Eastin	g:	(m)	E:5526.2	E:5517.3	E:5504.3	E:5517.7	E:5525.6	
Position/Offset/Northing:		(m)	N:13311.6	N:13302.5	N:13296.3	N:13263.3	N:13269.1	
Level/Layer/R.L.			RL:52.7	RL:51.5	RL:50.1	RL:50.2	RL:51.3	
Layer Depth:		(mm)	-	-	-	-	-	
Depth Tested:		(mm)	150	150	150	150	150	
Field & Laboratory Res	ults						•	
Field Wet Density:		(t/m ³)	2.11	2.17	2.16	2.16	2.15	
Field Dry Density:		(t/m³)	1.94	1.99	1.99	1.99	1.97	
Retained Oversize (Wet b	asis):	(%)	2% on 19.0mm	3% on 19.0mm	2% on 19.0mm	3% on 19.0mm	2% on 19.0mm	
Material Description:			-	-	-	-	-	
Moisture Content Metho	d:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	
Field Moisture Content:		(%)	9.0	9.0	9.0	8.5	9.0	
Adjusted Lab OMC:		(%)	10.6 Passing 19.0mm	11.1 Passing 19.0mm	11.1 Passing 19.0mm	10.4 Passing 19.0mm	10.8 Passing 19.0mm	
Fraction Tested: Lab Max Converted Wet I)oncity:	(t/m ³)	2.15	2.13	2.15	2.14	2.14	
Adjusted Lab Max CWD:	Jensity.	(t/m ³)	2.15	2.14	2.15	2.14	2.14	
Compactive Effort:		(())))))	Standard	Standard	Standard	Standard	Standard	
Relative Compaction &	Moisture							
Moisture Variation		(%)	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OMC	2.0% Dryer than OM	
Moisture Ratio		(%)	83.0	82.5	81.5	81.5	82.0	
Density Ratio		(%)	98.0	101.5	100.0	100.5	100.0	
Specified Dens	ity Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)	95		100.0	10	100.66	1.51	0.405	
Maximum (%)			-	-	-	-	-	
Specified Moist	ure Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k	
Minimum (%)			-	-	-	-	-	
Maximum (%)			-	-	-	-	-	
Test Methods Used.								
Maximum (%)	9.1.2.1, Cl 6 • Lot.		re Ratio), AS1289.5.7.1	- (Hilf Density/Moistur	- e Ratio (Rapid Method))), AS1289.5.8.1 (Nuclea	r Gauge, Direct	
NATA		result	dited for compliance w s relate only to the iter ditation number:	ith ISO/IEC 17025 - Test ns sampled/tested. 19902	ting. The Approved By:	A.Lenkeit Approved Signa	Ntory WB101 - Rev 11, 06/10/20.	

ASC	Т			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 4/31 Trade Telephone: E-Mail: Mobile: A.B.N.	ark Ridge QLD 4125 elink Road Hillcrest Q 4: 0437 776 582 brisbane.south@asct.c 0437 776 582 28 608 830 306	
Compaction Control Tes	t Report	(Nuclear Gauge	& Hilf)	Page:	2 of 2	
	onstructio			Report No:	-	
		Port of Brisbane QLD 4	170	Report Dat		2
	•••	5 & 7 - Bulk Earthworks		Project No:		5
•	arthworks		Thuse	Test Reque		
Lot Number: -				ITP/PCP:	51.	
Sample Information & Location	ו					
Sample Number:		81614	81615	81616	81617	81618
ield Test Number:		6	7	8	9	10
Date - Field Tested:		6/03/2023	6/03/2023	6/03/2023	6/03/2023	6/03/2023
Time - Field Tested:		1025	1030	1035	1040	1045
Material Source / Type:		Onsite - General Fill				
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:5521.2	E:5518.9	E:5509.6	E:5519.6	E:5530.7
Position/Offset/Northing:	(m)	N:13312.9	N:13309.6	N:13297.8	N:13265.9	N:13270.2
Level/Layer/R.L.		RL:52.0	RL:51.0	RL:49.7	RL:50.0	RL:50.9
ayer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	150	150
Field & Laboratory Results						
Field Wet Density:	(t/m³)	2.12	2.23	2.24	2.23	2.22
Field Dry Density:	(t/m³)	1.94	2.05	2.02	2.04	2.04
Retained Oversize (Wet basis):	(%)	2% on 19.0mm	2% on 19.0mm	3% on 19.0mm	2% on 19.0mm	4% on 19.0mm
Material Description:		-	-	-	-	-
Noisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Over
Field Moisture Content:	(%)	9.5	9.0	10.5	9.5	9.0
Adjusted Lab OMC:	(%)	11.4	10.8	11.7	11.3	10.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
ab Max Converted Wet Density:	(t/m ³)	2.15	2.19	2.17	2.19	2.18
Adjusted Lab Max CWD:	(t/m ³)	2.15	2.20	2.18	2.19	2.18
Compactive Effort:		Standard	Standard	Standard	Standard	Standard
Relative Compaction & Moistu	re					
Noisture Variation	(%)	2.0% Dryer than OMC	1.5% Dryer than OMC	1.0% Dryer than OMC	1.5% Dryer than OMC	1.5% Dryer than ON
Aoisture Ratio	(%)	82.5	84.0	90.0	85.0	83.0
Density Ratio	(%)	98.5	101.5	102.5	102.0	101.5
				• 4		
Specified Density Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	100.0	10	100.66	1.51	0.405
Maximum (%)		-	- No	-	-	-
Specified Moisture Rati	0	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Fest Methods Used. AS1289.1.1 (Prep), AS1289.5.4. Fransmission), , AS 1289.1.2.1, Remarks Regarding the Lot. Laboratory testing 20/03/202	Cl 6.4(b) (S					•
NATA	result	dited for compliance w s relate only to the iter ditation number:	ith ISO/IEC 17025 - Tesi ns sampled/tested. 19902	ing. The		
						WB101 - Rev 11, 06/10/20

ASC	СТ			ASCT Brisbane South Postal: PO Box 1232 Pi Laboratory: 15 Elliott (<i>Telephone:</i> <i>E-Mail:</i> <i>Mobile:</i> <i>A.B.N.</i>	ark Ridge QLD 4125 Court Hillcrest, QLD 411 (07) 3800 7314 brisbane.south@asct.c 0437 776 582 28 608 830 306	
Compaction Contro				Page:	1 of 2	
Client: E Client Address: 2 Project: 2	3MD Construct 1 Sandpiper Av		178	Report No: Report Dat Project No Test Reque ITP/PCP:	15 re: 23/03/202 : 1462	3
Sample Information & Lo	ocation					-
Sample Number:		82128	82129	82130	82131	82132
Field Test Number:		1	2	3	4	5
Date - Field Tested:		15/03/2023	15/03/2023	15/03/2023	15/03/2023	15/03/2023
Time - Field Tested:		0830	0835	0840	0845	0850
Material Source / Type:		On Site - General Fill			•	
Remarks / Notes:						
Control Line:		-	-	-	-	-
Location/Chainage/Easting:	(m)	E:5759.1	E:5748.4	E:5766.7	E:5774.3	E:5768.2
Position/Offset/Northing:	(m)	N:13381.4	N:13372.9	N:13335.5	N:13336.7	N:13336.9
Level/Layer/R.L.		RL:57.0	RL:57.4	RL:57.1	RL:56.3	RL:56.5
Layer Depth:	(mn	n) -	-	-	-	-
Depth Tested:	(mn	n) 150	150	150	150	150
Field & Laboratory Resul	ts	· .				
Field Wet Density:	(t/m	³) 2.17	2.15	2.15	2.12	2.22
Field Dry Density:	(t/m		1.97	1.96	1.92	2.01
Retained Oversize (Wet bas			3% on 19.0mm	2% on 19.0mm	1% on 19.0mm	4% on 19.0mm
Material Description:	- /	-	-	-	-	-
Moisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven
Field Moisture Content:	(%)		9.5	9.5	10.5	10.0
Adjusted Lab OMC:	(%)		11.2	9.7	11.2	10.4
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet De	nsity: (t/m		2.22	2.21	2.18	2.22
Adjusted Lab Max CWD:	(t/m		2.22	2.21	2.18	2.22
Compactive Effort:	(4)	Standard	Standard	Standard	Standard	Standard
Relative Compaction & N	Aoisture	otandara	otandara	otandara	otandara	otandara
Moisture Variation	(%)	1.0% Drver than OMC	2.0% Dryer than OMC	At OMC	1.0% Drver than OMC	0.5% Dryer than OMC
Moisture Ratio	(%)		83.0	99.5	93.0	97.0
Density Ratio	(%)		97.0	97.0	97.0	100.0
,						
Specified Densit	, 	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	8	97.95	1.66	0.453
Maximum (%)	- Dette	-	-	-	-	-
Specified Moistur	re Katio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
Test Methods Used. AS1289.1.1 (Prep), AS128						
Transmission), , AS 1289. Remarks Regarding the L Laboratory testing 21/0	1.2.1, Cl 6.4(b) ot. 3/2023 Acc resu		ns derived from Austroa	ads NTR-09 publication		•
				Approved By:	A.Lenkeit Approved Signa	ntory WB101 - Rev 11, 06/10/2022
ASC	T			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 15 Elliott (Telephone: E-Mail: Mobile: A.B.N.	ark Ridge QLD 4125 Court Hillcrest, QLD 4118 (07) 3800 7314 brisbane.south@asct.coi 0437 776 582 28 608 830 306	n.au
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Compaction Control T	est Report	(Nuclear Gauge	& Hilf)	Page:	2 of 2	
•	D Constructio		•	Report No:	: 15	
		Port of Brisbane QLD 4	170	Report Dat		
•	-	6 & 7 - Bulk Earthworks	Flidse	Project No		
	el 1 fill			Test Reque	-	
.ot Number: -				ITP/PCP:		
Sample Information & Locat	ion					
ample Number:		82133	82134	82135	-	-
ield Test Number:	ŀ	6	7	8	-	-
Date - Field Tested:	-	15/03/2023	15/03/2023	15/03/2023	-	-
	•		0900	0905		
ime - Field Tested:		0855	0900	0905	-	-
Naterial Source / Type:		On Site - General Fill				
emarks / Notes:						
Control Line:		-	-	-	-	-
ocation/Chainage/Easting:	(m)	E:5760.9	E:5739.2	E:5767.4	-	-
Position/Offset/Northing:	(m)	N:13380.9	N:13379.1	N:13336.2	-	-
.evel/Layer/R.L.	Ì	RL:56.2	RL:56.8	RL:56.3	-	-
ayer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	-	-
ield & Laboratory Results	()					
ield Wet Density:	(t/m ³)	2.27	2.15	2.22	-	-
ield Dry Density:	(t/m ³)	2.06	1.99	2.06	-	-
	((/))	3% on 19.0mm	1.55 1% on 19.0mm	2% on 19.0mm	_	-
Retained Oversize (Wet basis):	(70)	5% 011 19.011111	1% 011 19.011111	2% 011 19.011111	-	
Naterial Description:		-	-			-
Noisture Content Method:		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
ield Moisture Content:	(%)	10.0	8.0	7.5	-	-
djusted Lab OMC:	(%)	9.7	7.3	10.5	-	-
raction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
ab Max Converted Wet Densit	:y: (t/m³)	2.25	2.25	2.25	-	-
Adjusted Lab Max CWD:	(t/m ³)	2.26	2.25	2.25	-	-
Compactive Effort:		Standard	Standard	Standard	-	-
elative Compaction & Moi	sture					
Noisture Variation	(%)	0.5% Wetter than OMC	0.5% Wetter than OMC	3.0% Drver than OMC	-	-
Aoisture Ratio	(%)	105.0	109.0	72.5	-	-
ensity Ratio	(%)	100.5	95.5	98.5	-	-
	(70)				I I	
Specified Density R	atio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	97.2	8	97.95	1.66	0.453
Maximum (%)		-	-	-	-	-
Specified Moisture R	atio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)		-	-	-	-	-
Maximum (%)		-	-	-	-	-
est Methods Used.			1			
S1289.1.1 (Prep), AS1289.5 Fransmission), , AS 1289.1.2 Remarks Regarding the Lot. Laboratory testing 21/03/2	1, Cl 6.4(b) (S					-
NATA	result	dited for compliance w s relate only to the iten ditation number:	ith ISO/IEC 17025 - Test ns sampled/tested. 19902	ing. The		
	ALLE	anation number.	19902			WB101 - Rev 11, 06/10/

AS	C.	Γ			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 15 Elliott C Telephone: E-Mail: Mobile: A.B.N.	ark Ridge QLD 4125 Court Hillcrest, QLD 412 (07) 3800 7314 brisbane.south@asct.o 0437 776 582 28 608 830 306	
Compaction Cont	rol Test R	Report	: (Nuclear Gauge		Page:	1 of 2	
Client: Client Address: Project: Component: Lot Number:	BMD Cons 1 Sandpip	structio er Ave, ages 5, 6	ns Pty Ltd Port of Brisbane QLD 4 6 & 7 - Bulk Earthworks	178	Report No: Report Dat Project No: Test Reque ITP/PCP:	16 e: 28/03/202 : 1462	3
Sample Information &	Location				, -		
Sample Number:	Location		82400	82401	82402	82403	82404
Field Test Number:			1	2	3	4	5
Date - Field Tested:			17/03/2023	17/03/2023	17/03/2023	17/03/2023	17/03/2023
Time - Field Tested:			1000	1005	1010	1015	1020
Material Source / Type:			On Site - General Fill				
Remarks / Notes:							
Control Line:			-	-	-	-	-
Location/Chainage/Easti	ng:	(m)	E:5819.8	E:5851.1	E:5818.0	E:5826.6	E:5809.7
Position/Offset/Northing	:	(m)	N:13403.6	N:13431.5	N:13441.4	N:13408.8	N:13395.1
Level/Layer/R.L.			RL:51.1	RL:49.8	RL:49.7	RL:50.6	RL:49.9
Layer Depth:		(mm)	-	-	-	-	-
Depth Tested:		(mm)	150	150	150	150	150
Field & Laboratory Res	sults					1	
Field Wet Density:		(t/m ³)	2.10	2.25	2.17	2.23	2.14
Field Dry Density:		(t/m ³)	1.89	2.04	1.97	2.03	1.94
Retained Oversize (Wet I	pasis):	(%)	2% on 19.0mm	2% on 19.0mm	1% on 19.0mm	3% on 19.0mm	2% on 19.0mm
Material Description:	. al.		- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven	- AS1289.2.1.1 - Oven
Moisture Content Methor Field Moisture Content:	00:	(%)	11.0	10.5	10.0	9.5	10.0
Adjusted Lab OMC:		(%)	11.5	10.5	10.0	9.7	10.0
Fraction Tested:		(,-)	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Max Converted Wet	Density:	(t/m ³)	2.14	2.23	2.21	2.18	2.16
Adjusted Lab Max CWD:	,	(t/m ³)	2.14	2.23	2.21	2.18	2.17
Compactive Effort:			Standard	Standard	Standard	Standard	Standard
Relative Compaction 8	& Moisture						
Moisture Variation		(%)	0.5% Dryer than OMC	0.5% Wetter than OMC	At OMC	At OMC	0.5% Dryer than OMC
Moisture Ratio		(%)	97.5	103.5	98.0	100.5	94.0
Density Ratio		(%)	98.0	101.0	98.5	102.0	98.5
Specified Den	sity Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95		98.8	8	99.61	1.77	0.453
Maximum (%)			-	-	-	-	-
Specified Mois	ture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)			-	-	-	-	-
Maximum (%)			-	-	-	-	-
Test Methods Used.							
AS1289.1.1 (Prep), AS1	89.1.2.1, Cl 6 e Lot.	•		- (Hilf Density/Moisture ns derived from Austroa			
NATA		result	dited for compliance w s relate only to the iter ditation number:	ith ISO/IEC 17025 - Test ns sampled/tested. 19902	ing. The Approved By:	A.Lenkeit Approved Signa	

				ASCT Brisbane South Postal: PO Box 1232 Pa	rk Ridge OLD 4125	
				-	ourt Hillcrest, QLD 4118	
				Telephone:	(07) 3800 7314	
				E-Mail:	brisbane.south@asct.cor	n.au
ASC		-		Mobile: A.B.N.	0437 776 582 28 608 830 306	
Compaction Contro	ol Test Repor	t (Nuclear Gauge &	& Hilf)	Page:	2 of 2	
Client:	BMD Construction	ons Pty Ltd		Report No:	16	
Client Address:	1 Sandpiper Ave	, Port of Brisbane QLD 42	178	Report Date	e: 28/03/2023	
Project:	Aurora Stages 5,	6 & 7 - Bulk Earthworks	Phase	Project No:	1462	
Component:	Bulk Earthworks	Level 1		Test Reque	st: -	
Lot Number:	-			ITP/PCP:		
				,		
Sample Information & L	ocation					
Sample Number:		82405	82406	82407	-	-
Field Test Number:		6	7	8	-	-
Date - Field Tested:		17/03/2023	17/03/2023	17/03/2023	-	-
Time - Field Tested:		1025	1030	1035	-	-
Material Source / Type:		On Site - General Fill				
Remarks / Notes:						
			_	_		
Control Line:		-	-	-	-	-
Location/Chainage/Easting	: (m)	E:5815.4	E:5823.7	E:5829.8	-	-
	,	N:13446.9	N:13419.6	N:13422.2		
Position/Offset/Northing:	(m)	11.13440.9	11.13419.0	11.13422.2	-	-
Level/Layer/R.L.		RL:49.9	RL:50.4	RL:50.8	-	-
Layer Depth:	(mm)	-	-	-	-	-
Depth Tested:	(mm)	150	150	150	-	-
Field & Laboratory Resu	lts					
Field Wet Density:	(t/m ³) 2.11	2.17	2.24	-	-
Field Dry Density:	(t/m ³	1.92	1.98	2.07	-	-
Retained Oversize (Wet ba		2% on 19.0mm	5% on 19.0mm	1% on 19.0mm	-	-
Material Description:	- , , , ,	-	-	-	-	_
Moisture Content Method		AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	9.5	9.5	8.5	-	-
Adjusted Lab OMC:	(%)	10.6	9.8	9.3	-	-
Fraction Tested:	(70)	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Max Converted Wet De			2.21	2.20		-
			2.21	2.20		
Adjusted Lab Max CWD:	(t/m ³			-	-	-
Compactive Effort:		Standard	Standard	Standard	-	-
Relative Compaction & I						
Moisture Variation	(%)	1.0% Dryer than OMC	At OMC	1.0% Dryer than OMC	-	-
Moisture Ratio	(%)	92.0	98.0	89.5	-	-
Density Ratio	(%)	98.5	98.0	102.0	-	-
Specified Densit	ty Ratio	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.8	8	99.61	1.77	0.453
Maximum (%)	55	50.0	-	55.01	1.77	-
Specified Moistu	ure Ratio	- Characteristic Value	- Number of Tests	Mean	- Standard Deviation	- Constant k
				-		
Minimum (%)		-	-	-	-	
Maximum (%)		-	-	-	-	-
Test Methods Used.						
Transmission), , AS 1289 Remarks Regarding the	.1.2.1, Cl 6.4(b) (, AS1289.5.8.1 (Nuclear ((Not Included in Nata end	-
Laboratory testing 24/0)3/2023					
		edited for compliance wi	ith ISO/IEC 17025 - Tes	ting. The		
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NATA		Its relate only to the item		C C		
NATA	resul	ts relate only to the item		0		

WB101 - Rev 11, 06/10/2022

AS	C-	Γ			ASCT Brisbane South Postal: PO Box 1232 Pa Laboratory: 15 Elliott C Telephone: E-Mail: Mobile: A.B.N.	rk Ridge QLD 4125 ourt Hillcrest, QLD 4118 (07) 3800 7314 brisbane.south@asct.cc 0437 776 582 28 608 830 306	
Compaction Cont	rol Test R	eport	(Nuclear Gauge	& Hilf)	Page:	1 of 1	
Client: Client Address: Project: Component: Lot Number:	BMD Cons 1 Sandpip Aurora Sta	struction er Ave, ages 5, 6		178	Report No: Report Dat Project No: Test Reque ITP/PCP:	17 e: 6/04/2023 1462	
Sample Information &	Location						
Sample Number:			82778	82779	82780	82781	-
Field Test Number:			1	2	3	4	-
Date - Field Tested:			24/03/2023	24/03/2023	24/03/2023	24/03/2023	-
Time - Field Tested:			1050	1055	1100	1105	-
Material Source / Type:			On Site - General fill				
Remarks / Notes:							
Control Line:			Allotment 509	Allotment 510	Allotment 511	Allotment 512	
Location/Chainage/Easti	ng:	(m)	12m from East Bdy	6m from East Bdy	10m from East Bdy	9m from East Bdy	-
Position/Offset/Northing	<u>;</u>	(m)	2m from South Bdy	4m from South Bdy	6m from South Bdy	3m from South Bdy	-
Level/Layer/R.L.			F/L	F/L	F/L	F/L	-
Layer Depth:		(mm)	-	-	-	-	-
Depth Tested:		(mm)	150	150	150	150	-
Field & Laboratory Res	sults	3.	2.42	2.44	0.44	0.40	
Field Wet Density:		(t/m ³)	2.13 1.89	2.11	2.11 1.93	2.13	-
Field Dry Density: Retained Oversize (Wet I	hacic).	(t/m ³) (%)	3% on 19.0mm	4% on 19.0mm	1.95 13% on 19.0mm	3% on 19.0mm	-
Material Description:	Udsisj.	(70)	-	4/0 011 19.011111	-	-	-
Moisture Content Metho	nd.	ŀ	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	AS1289.2.1.1 - Oven	-
Field Moisture Content:		(%)	13.0	13.5	9.0	14.0	-
Adjusted Lab OMC:		(%)	12.2	13.1	11.6	13.6	-
Fraction Tested:			Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-
Lab Max Converted Wet	Density:	(t/m ³)	2.15	2.16	2.12	2.17	-
Adjusted Lab Max CWD:		(t/m³)	2.15	2.17	2.14	2.18	-
Compactive Effort:		-	Standard	Standard	Standard	Standard	-
Relative Compaction 8	& Moisture						
Moisture Variation					2.0% Dryer than OMC		-
Moisture Ratio		(%)	105.0	102.5	79.5	104.5	-
Density Ratio		(%)	99.0	97.5	98.5	98.0	-
Specified Den	sity Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95		97.8	4	98.18	0.59	0.640
Maximum (%)			-	-	-	-	-
Specified Mois	ture Ratio		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%) Maximum (%)	+		-	-	-	-	-
Test Methods Used.			-	-	-	-	-
AS1289.1.1 (Prep), AS1	89.1.2.1, Cl 6 e Lot.					I, AS1289.5.8.1 (Nuclear (Not Included in Nata en	
NATA		result	dited for compliance wi s relate only to the iten ditation number:	ith ISO/IEC 17025 - Test ns sampled/tested. 19902	ing. The Approved By:	A.Lenkeit Approved Signat	<u>+</u>

Solit AND For Partial Control Test Report (Nuclear Gauge & MDD) Ubboratory: 15 Elliot Court Hilknest. 0.0 4118 Telephtom:: (0) 3800 734 / Prisbane.south@sect.com.au Mobile: (0) 3800 784 / Prisbane.south@sect.com.au Mobile: (0) 3800 / Prisbane.south@sect.com.au Mobile: <th></th> <th>JSTRALI</th> <th>AN</th> <th></th> <th>ASCT Brisbane South</th> <th></th> <th></th>		JSTRALI	AN		ASCT Brisbane South		
ASSCID CONCRETE TESTING Telephone: Wobie: (D) 3800 7314 Mobie: 0.437776 582 A.B.N. 28 608 830 306 Compaction Control Test Report (Nuclear Gauge & MDD) Page: 10.13 Client BMD Constructions Pty 14 Report No. 18.4 Client Aurons Sarges, 5.6 & 7-bulk Earthworks Phase Project: 22005/0023 Compaction Control Test Report No. 1.462 Test Reports 1.462 Sample Information & Location S5522 85524 85525 85526 Sample Information & Location Test Reports 1.462 1.400 1.4105 1.462 Sample Information & Location Time Field Test Number: 1.400 1.4405 1.410 1.4115 0.0700/0023 27/04/2023 27/04/2023 27/04/2023 27/04/2023 27/04/2023 27/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1.700/04/2023 1						-	,
E-Mail: britishame.suth@ast.com.au Compaction Control Test Report (Nuclear Gauge & MDD) Page: 1 of 3 Client MD Constructions PV 1d Report Ni: 184. Client Address: 1 Sindpiper Ave, Port of Brikbane GLD 4178 Report Ni: 146. Client Address: 1 Sindpiper Ave, Port of Brikbane GLD 4178 Report Ni: 146. Component: Aurora Stages 5, 6 8 7- Bulk Earthworks Phase Project Ni: 146. Component: Autornation of Stages 5, 6 8 7- Bulk Earthworks Phase Project Ni: 146. Sample Number: Immer Field Tested: Test Number: 146. 5 Sample Number: Immer Field Tested: 140. 21/04/023 27/04/	ASCT				•		
CESTING E. Mail: Mobile: A.B.N. Distant 2004 (mobile) (A.B.N. Distant 2004 (mobile) (A.B.N. <thdistant (mobile)<br="" 2004="">(A.B.N.<!--</th--><th>A.S.C.I.</th><th></th><th>RETE</th><th></th><th>•</th><th></th><th></th></thdistant>	A.S.C.I.		RETE		•		
A.B.N. 26 06 830 306 Compaction Control Test Report (Nuclear Gauge & MDD) Page: 1 of 3 Client: BMD Constructions Pty Ltd Report No:: 26/202 Client: BMD Constructions Pty Ltd Report No:: 26/202 Client: Aurors Stages 5, 6 & 7: Bulk Farthworks Phase Project: Aurors Stages 5, 6 & 7: Bulk Farthworks Phase Project: Consponent: Aurors Stages 5, 6 & 7: Bulk Farthworks Phase Project: Stages 5, 6 & 7: Bulk Farthworks Phase Project: Consponent:							-
Compaction Control Test Report (Nuclear Gauge & MDD) Page: 1 of 3 Ellent: BMD Constructions Pty Ltd Report No: 18.8 Client: Allotrent fill - Level 1 Report No: 18.7 Sample Information & Location Simple Number: . 1462 Sample Information & Location Simple Number: . 112 3 4 5 Sample Information & Location Simple Number: . . 112 3 4 5 Sample Information & Location Simple Number: . <td< th=""><th></th><th>IESI</th><th>ING</th><th></th><th></th><th></th><th></th></td<>		IESI	ING				
Ellent BBD Constructions Pty Ltd Report No: 18-8 Client Address: 1 Sandpiper Ave, Port of Britshame QLD 4178 Report Date: 22/05/2032 Constructions Project: Autros Asges 5, 6 & 7 - Buk Earthworks Phase Project No: 14-2 Component: Autros Asges 5, 6 & 7 - Buk Earthworks Phase Project: Project: Sample Information & Location Test Request: TTP/PCP: Sample Information & Location 85522 85524 85525 Sample Information & Location 85522 85524 85525 Sample Information & Location 27/04/2023 27/04/2023 27/04/2023 27/04/2023 Sample Information & Location 1400 1405 1410 1415 1420 Value Field test doi: 1400 1405 1410 1415 1420 Value Field test doi: 100 0510 1017:06 L07:571 L07:706 Cantrol Line: LOT:515 L07:705 L07:573 L07:708 Boundary Boundary Boundary Boundary Boundary Boundary Bound	Compaction Contro	l Test Report	(Nuclear Gauge 8	MDD)	A.B.N.		
Client Address: 1 Sandpiper Ave, Pori of Brisbane QLD 4178 Report Date: 22/05/2023 Project: Allorment III - Level I Test Request: 1402 Sample Number: - Improved III Test Request: 1402 Sample Number: - Improved IIII Improved IIIII Improved IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	-	-	• •			_	
Project: Aurora Stages 5, 6 & 7 - Bulk Earthworks Phage Project No: 1462 Component: Allottment fill - Lev I Test Request: 1 Sample Number: - Test Request: Test Request: 1 Sample Number: - 85523 85524 85525 8552			,	78		•	
Component Millment fill - Level 1 Test Request: ITP/PCP Sample Information & Locator Test Request: Test Request: Sample Information & Locator S5523 S5524 S5525 Sample Information & Locator S5522 S5524 S5525 Sample Information & Locator 1 2 3 4 5 Sample Information & Locator 1400 1405 1410 1415 1420 Sample Information & Locator Test Request: On Site - General Fill 107:515 107:705 107:537 107:708 107:706 Variant Site/Offset/Northing: Imp Test Request: Boundary Boundary <td< td=""><td></td><td>•••</td><td></td><td></td><td></td><td>•</td><td></td></td<>		•••				•	
Lot Number: Tri/PCP: Sample Information & Location 85522 85523 85524 85525 85525 Single Number: 1 2 3 4 5 Tigle Test Number: 1 2 3 4 5 Date - Field Tested: 1400 1410 1415 1420 Vaterial Source / Type: 0 0 1551 107:705 107:708 107:708 107:708 Control Line: - 100 170 off North 7m off North Sm off North<	-	-		Plidse		•	1402
Sample Information & Location 85522 85523 85524 85525 85526 Sample Number: 1 2 3 4 5 Date - Field Tested: 1.400 1.405 1.410 1.415 1.420 Vaterial Source / Type: 0 1.400 1.405 1.410 1.415 1.420 Vaterial Source / Type: 0 State - General Fill 1.420 1.420 1.420 Avaterial Source / Type: 0 State - General Fill 1.007.705 LOT:537 LOT:708 LOT:706 Control Line: - 1.00 fiftwert 1.00 fiftwert Boundary Bound	•	Allotment fill - Lev	veri			•	-
Sample Number: 85522 85523 85524 85525 85526 1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 1 2 27/04/2023	Lot Number: -					TTP/PCP:	
1:eld Tested: 1 2 3 4 5 Date - Field Tested: 27/04/2023	•	cation					
Date - Field Tested: 27/04/2023 07/04/2023 07/04 07/04 07/04 </td <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•						
Inter-Field Tested: 1400 1405 1410 1415 1420 Waterial Source / Type: On Site - General Fill Semarks / Notes: IOT:515 IOT:705 IOT:537 IOT:708 IOT:708 Control Line: Tm off North Boundary			-	-	<u> </u>	· ·	-
Material Source / Type: On Site - General Fill Semarks / Notes:							
Remarks / Notes: Image: Control Line: Image: Control Line: <thimage: control="" line:<="" th=""> Image: Control</thimage:>				1405	1410	1415	1420
Control Line:IDT:515IDT:705IDT:537IDT:708IDT:706.coation/Chainage/Easting:(m) $7m$ off North $7m$ off North $11m$ off NorthSm off NorthSm off NorthPosition/Offset/Northing:(m) $8oundary$ BoundaryBoundaryBoundaryBoundary.evel/Layer/R.L10m off West $18m$ off West $19m$ off West $11m$ off West $11m$ off West $11m$ off West.evel/Layer/R.L(mm)evel/Layer/R.L(mm)evel/Layer/R.L(mm)50150150150150Peth Tested:(mm)150150150150150Field & Laboratory Results(mm)2.102.102.192.112.16rield Verbasic (Wet basis):(%) 95 $9.0m$ $9.0m$ $9%$ on $19.0mm$ $9%$ on $19.0mm$ 9% on $19.0mm$ Woltare Content:(%) 7.5 9.0 7.5 7.5 8.5 rield Wet Density:(/m) 2.02 1.99 2.02 1.99 2.00 Woltare Content:(%) 9.0 10.0 9.5 10.0 9.5 10.0 Woltare Content:(%) 2.02 1.99 2.02 1.99 2.00 rield Wet Density (MDD):(/m) 2.02 1.99 2.02 1.99 2.00 water data deterence Density Rest: 84 13 86.5 6.9 0.355 <tr< td=""><td>Material Source / Type:</td><td></td><td>On Site - General Fill</td><td></td><td></td><td>,</td><td></td></tr<>	Material Source / Type:		On Site - General Fill			,	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Remarks / Notes:						
$\begin{array}{c cccton/Chainage/Easting: (m) \\ low off West \\ low off West \\ low off West \\ low off West \\ Boundary \\ Bo$	Control Line:		LOT:515	LOT:705	LOT:537	LOT:708	LOT:706
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Leastion (Chainage (Fasting)	(m)	7m off North	7m off North	11m off North	5m off North	8m off North
Position/Offset/Northing:(m)BoundaryBoundaryBoundaryBoundaryBoundaryBoundaryBoundaryBoundaryLevel/Layer/R.L. F/L 0.3 BFL F/L 0.4 BFL0.6 BFLayer Depth:(mm)Depth Tested:(mm)150150150150150Field & Laboratory ResultsField We Density:(t/m ³)2.102.102.192.112.16Field Py Density:(t/m ³)1.951.932.041.961.99Retained Oversize (Wet basis):(%)0% on 19.0mm0% on 19.0mm0% on 19.0mm0% on 19.0mm0% on 19.0mmOkisture Content:(%)7.59.07.57.58.5Adjusted Lab OMC:(%)9.010.010.09.510.5Fraction Tested:(%)9.010.010.09.52.00Adjusted Lab MDD:(t/m ³)2.021.992.021.992.00Adjusted Lab Reference Density Test:Vesture Content:(%)83.591.07.57.580.5Moisture Content:(%)83.591.07.57.580.5Vesture Ratio(%)97.096.5100.598.5100.0Characteristic Value Soft He Lot.CV calculations derived roads NTR-09 publicationConstant KSpecified Moisture Ratio(%)97.096.5100.598.5 <td>Location/Chainage/Easting:</td> <td>(111)</td> <td>Boundary</td> <td>Boundary</td> <td>Boundary</td> <td>Boundary</td> <td>Boundary</td>	Location/Chainage/Easting:	(111)	Boundary	Boundary	Boundary	Boundary	Boundary
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Desition (Offert /Northing)	(172)	10m off West	18m off West	19m off West	11m off West	11m off West
Level/Lyger/R.L. Imm -	Position/Onset/Northing:	(11)	Boundary	Boundary	Boundary	Boundary	Boundary
Depth Tested: (mm) 150 150 150 150 150 Field & Laboratory Results Field & Laboratory Results 1.93 2.10 2.19 2.11 2.16 Field Dry Density: (t/m ³) 1.95 1.93 2.04 1.96 1.99 Retained Oversize (Wet basis): (%) 0% on 19.0mm 0.2.1.1 - Oven	Level/Layer/R.L.		F/L	0.3 BFL	F/L	0.4 BFL	0.6 BFL
Depth Tested: (mm) 150 150 150 150 150 Field & Laboratory Results Field & Laboratory Results 1.93 2.10 2.19 2.11 2.16 Field Dry Density: (t/m ³) 1.95 1.93 2.04 1.96 1.99 Retained Oversize (Wet basis): (%) 0% on 19.0mm 0.2.1.1 - Oven	Layer Depth:	(mm)	-	-	-	-	-
Field Wet Density: (t/m ³) 2.10 2.10 2.19 2.11 2.16 Field Dry Density: (t/m ³) 1.95 1.93 2.04 1.96 1.99 Retained Oversize (Wet basis): (%) 0% on 19.0mm 2.0.1.1 - Oven 2.1.1 - Ov	Depth Tested:		150	150	150	150	150
Field Dry Density: (t/m ³) 1.95 1.93 2.04 1.96 1.99 Retained Oversize (Wet basis): (%) 0% on 19.0mm 10.0 1.0.1 1.0 ver 1.1.1 - Over 1.2.1.1 - Over <	Field & Laboratory Result	ts					
Aretained Oversize (Wet basis): (%) 0% on 19.0mm 2.1.1 - Oven 2.1.1 - Oven 2.1	Field Wet Density:	(t/m³)	2.10	2.10	2.19	2.11	2.16
Retained Oversize (Dry basis): (%) 0% on 19.0mm 2.1.1 - 0ven .2.1.1 - 0ven	Field Dry Density:	(t/m ³)	1.95	1.93	2.04	1.96	1.99
Moisture Content Method - AS1289: .2.1.1 - Oven .2.10 .2.10 .2.1	Retained Oversize (Wet basi	s): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Field Moisture Content: (%) 7.5 9.0 7.5 7.5 8.5 Adjusted Lab OMC: (%) 9.0 10.0 10.0 9.5 10.5 Fraction Tested: Passing 19.0mm	Retained Oversize (Dry basis	5): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Adjusted Lab OMC: (%) 9.0 10.0 10.0 9.5 10.5 Fraction Tested: Passing 19.0mm Passing 19.0m Passing 10.0m Pasi.0m Passing 10.0m P	Moisture Content Method -	AS1289:	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven
Passing 19.0mm Passing 19.0m Passing 19.0m Passing 19.0m Passing 19.0m Passing 19.0mm Passing 10.0D Passing 10.0	Field Moisture Content:	(%)	7.5	9.0	7.5	7.5	8.5
Lab Maximum Dry Density (MDD): (t/m³) 2.02 1.99 2.02 1.99 2.00 Adjusted Lab MDD: (t/m³) 2.02 1.99 2.02 1.99 2.00 Adjusted Lab MDD: (t/m³) 2.02 1.99 2.02 1.99 2.00 Report & Date of Lab Reference Density Test: - - - - - Relative Compaction & Moisture Moisture Ratio (%) 83.5 91.0 77.5 77.5 80.5 Moisture Variation (%) 1.5 Dry of OMC 1.0 Dry of OMC 2.0 Dry of OMC	Adjusted Lab OMC:	(%)	9.0	10.0	10.0	9.5	10.5
Lab Maximum Dry Density (MDD): (t/m³) 2.02 1.99 2.02 1.99 2.00 Adjusted Lab MDD: (t/m³) 2.02 1.99 2.02 1.99 2.00 Adjusted Lab MDD: (t/m³) 2.02 1.99 2.02 1.99 2.00 Report & Date of Lab Reference Density Test: - - - - - Relative Compaction & Moisture Moisture Ratio (%) 83.5 91.0 77.5 77.5 80.5 Moisture Variation (%) 1.5 Dry of OMC 1.0 Dry of OMC 2.0 Dry of OMC	Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Report & Date of Lab Reference Density Test:Relative Compaction & MoistureMoisture Ratio(%) (%)83.591.077.577.580.5Moisture Variation(%) (%)1.5 Dry of OMC1.0 Dry of OMC2.0 Dry of OMC2.0 Dry of OMC2.0 Dry of OMC2.0 Dry of OMCDensity Ratio(%)97.096.5100.598.5100.0Characteristic Values of the Lot.CV calculations derived from Austroads NTR-09 publicationSpecified Moisture RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)-841386.56.90.355Specified Density RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)9598.51399.041.440.355Maximum (%)-99.51399.041.440.355	Lab Maximum Dry Density (I	MDD): (t/m ³)	2.02	1.99	2.02	1.99	2.00
Relative Compaction & MoistureMoisture Ratio(%)83.591.077.577.580.5Moisture Variation(%)1.5 Dry of OMC1.0 Dry of OMC2.0 Dry of OMC2.0 Dry of OMC2.0 Dry of OMC2.0 Dry of OMCDensity Ratio(%)97.096.5100.598.5100.0Characteristic Values of the Lot.CV calculations derived from Austroads NTR-09 publicationSpecified Moisture RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)-841386.56.90.355Specified Density RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)9598.51399.041.440.355Maximum (%)-99.51399.041.440.355	Adjusted Lab MDD:	(t/m ³)	2.02	1.99	2.02	1.99	2.00
Moisture Ratio (%) 83.5 91.0 77.5 77.5 80.5 Moisture Variation (%) 1.5 Dry of OMC 1.0 Dry of OMC 2.0 Dry of OMC	Report & Date of Lab Reference De	nsity Test:	-				
Moisture Variation(%)1.5 Dry of OMC1.0 Dry of OMC2.0 Dry of OM	Relative Compaction & N	loisture					
Density Ratio(%)97.096.5100.598.5100.0Characteristic Values of the Lot.CV calculations derived from Austroads NTR-09 publicationSpecified Moisture RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)-841386.56.90.355Maximum (%)-891386.56.90.355Specified Density RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)9598.51399.041.440.355Maximum (%)-99.51399.041.440.355	Moisture Ratio						
Characteristic Values of the Lot.CV calculations derived from Austroads NTR-09 publicationSpecified Moisture RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)-841386.56.90.355Maximum (%)-891386.56.90.355Specified Density RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)9598.51399.041.440.355Maximum (%)-99.51399.041.440.355	Moisture Variation						•
Specified Moisture RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)-841386.56.90.355Maximum (%)-891386.56.90.355Specified Density RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)9598.51399.041.440.355Maximum (%)-99.51399.041.440.355	Density Ratio	(%)	97.0	96.5	100.5	98.5	100.0
Minimum (%) - 84 13 86.5 6.9 0.355 Maximum (%) - 89 13 86.5 6.9 0.355 Specified Density Ratio Characteristic Value Number of Tests Mean Standard Deviation Constant k Minimum (%) 95 98.5 13 99.04 1.44 0.355 Maximum (%) - 99.5 13 99.04 1.44 0.355	Characteristic Values of t	he Lot.			9 publication		
Maximum (%) - 89 13 86.5 6.9 0.355 Specified Density Ratio Characteristic Value Number of Tests Mean Standard Deviation Constant k Minimum (%) 95 98.5 13 99.04 1.44 0.355 Maximum (%) - 99.5 13 99.04 1.44 0.355		e Ratio	Characteristic Value				
Specified Density RatioCharacteristic ValueNumber of TestsMeanStandard DeviationConstant kMinimum (%)9598.51399.041.440.355Maximum (%)-99.51399.041.440.355							
Minimum (%) 95 98.5 13 99.04 1.44 0.355 Maximum (%) - 99.5 13 99.04 1.44 0.355	Maximum (%)	-		_	86.5		0.355
Maximum (%) - 99.5 13 99.04 1.44 0.355	. , ,					Standard Deviation	
		95					
Test Methods Used.	Maximum (%)	-	99.5	13	99.04	1.44	0.355
AS 1289.1.2.1, Cl 6.4(b) (Disturbed Sampling), AS1289.1.1 (Prep), AS1289.5.8.1 (Nuclear Gauge, Direct Transmission), AS1289.5.4.1 (Dry Density Ratio, Moisture Variation & Ratio),	Test Methods Used.						

AS 1289-1.2.1, (16.4(b) (Disturbed Sampling), AS1289-1.1 (Prep), AS1289-5.8.1 (Nuclear Gauge, Direct Transmission), AS1289-5.4.1 (Dry Density Ratio, Moisture Variation & Ratio), AS1289-5.1.1 (MDD Standard Effort) Remarks Regarding the Lot. Laboratory testing 05/05/2023 This Report replaces report 18. A typographical error made when inputting locations. Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested. NATA Accreditation number: 19902 Approved By: K.Wesener Approved Signatory WB100 - Rev 8, 28/09/21

				ASCT Brisbane South Postal: PO Box 1232 P	ark Ridge QLD 4125 Court Hillcrest, QLD 4118	3
A.S.C.T.	SOIL AN CONC	RETE		Telephone: E-Mail: Mobile:	(07) 3800 73	314 uth@asct.com.au
	TEST	ING		A.B.N.	28 608 830	
Compaction Control	Test Report	(Nuclear Gauge 8	MDD)		Page:	2 of 3
	MD Construction	•			Report No:	18-R
Project: Au	• •	Port of Brisbane QLD 41 5 & 7 - Bulk Earthworks vel 1			Report Date: Project No: Test Request: ITP/PCP:	22/05/2023 1462 -
Sample Information & Loc	ation					
Sample Number:	ation	85527	85528	85529	85530	85531
Field Test Number:	·	6	7	8	9	10
Date - Field Tested:		27/04/2023	27/04/2023	27/04/2023	27/04/2023	27/04/2023
Time - Field Tested:		1425	1430	1435	1440	1445
Material Source / Type:		On Site - General Fill			·	
Remarks / Notes:						
Control Line:		LOT:704	LOT:702	LOT:538	LOT:539	LOT:540
Location/Chainage/Easting:	(m)	6m off North	6m off North	15m off North	20m off North	7m off North
		Boundary	Boundary	Boundary	Boundary	Boundary
Position/Offset/Northing:	(m)	10m off West	12m off West	5m off West	8m off West	9m off West
Level/Layer/R.L.		Boundary 0.3 BFL	Boundary 0.4 BFL	Boundary	Boundary	Boundary
Layer Depth:	(mm)	U.5 BFL	0.4 DFL	F/L	F/L	F/L
Depth Tested:	(mm)	150	150	150	150	150
Field & Laboratory Results					<u> </u>	
Field Wet Density:	(t/m ³)	2.20	2.11	2.16	2.17	2.15
Field Dry Density:	(t/m ³)	2.01	1.90	2.01	1.97	1.96
Retained Oversize (Wet basis)): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Retained Oversize (Dry basis)	: (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm
Moisture Content Method - A	S1289:	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven
Field Moisture Content:	(%)	9.5	10.5	8.0	10.0	10.0
Adjusted Lab OMC:	(%)	11.5	12.0	9.5	11.5	11.5
Fraction Tested:		Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm
Lab Maximum Dry Density (N		2.02	1.94	2.01	1.96	1.97
Adjusted Lab MDD:	(t/m³)	2.02	1.94	2.01	1.96	1.97
Report & Date of Lab Reference Den		-				
Relative Compaction & Mo				00.5		
Moisture Ratio	(%)	82.0	88.5	83.5	87.5	84.0
Moisture Variation	(%)	2.0 Dry of OMC	1.5 Dry of OMC	1.5 Dry of OMC	1.5 Dry of OMC	2.0 Dry of OMC
Density Ratio	(%)	99.5	98.0	100.0	100.5	99.5
Characteristic Values of th		CV calculations derived		9 publication		
Specified Moist	ure	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-	84	13	86.5	6.9	0.355
Maximum (%)	-	89	13	86.5	6.9	0.355
Specified Compa		Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.5	13	99.04	1.44	0.355
Maximum (%)	-	99.5	13	99.04	1.44	0.355
Test Methods Used. AS 1289.1.2.1, Cl 6.4(b) (Disturbe						

Remarks Regarding	the Lot.
Laboratory testing (
This Report replace	s report 18. A typographical error made when inputting locations.
NATA	Accredited for compliance with ISO/IEC 17025 - Testing. The results relate only to the items sampled/tested.
•	NATA Accreditation number: 19902
	WB100 - Rev 8, 28/0

	USTRALI			ASCT Brisbane South		
				Postal: PO Box 1232 Pa	-	
ACCT	SOIL AN	D		•	Court Hillcrest, QLD 4118	
A.S.C.T.		RFTF		Telephone:	(07) 3800 731 briebene sout	
				E-Mail:		th@asct.com.au
	TEST	ING		Mobile:	0437 776 582	
Compaction Control	Tost Papart			A.B.N.	28 608 830 30	06 3 of 3
-	BMD Construction				Page: Report No:	3 of 3 18-R
		Port of Brisbane QLD 41	178		Report Date:	22/05/2023
	•••	6 & 7 - Bulk Earthworks			Project No:	1462
•	Allotment fill - Lev		Thuse		Test Request:	-
Lot Number: -					ITP/PCP:	
Sample Information & Lo	cation	05533	85533	85534	 	
Sample Number:	ŀ	85532			-	-
Field Test Number:	ļ	11	12	13	- <u>-</u>	
Date - Field Tested:	ļ	27/04/2023	27/04/2023	27/04/2023	-	-
Fime - Field Tested:	ļ	1455	1500	1505	-	
Material Source / Type:	•	On Site - General Fill		T	т	
Remarks / Notes:			l			
Control Line:		LOT:541	LOT542	LOT:543	-	-
		18m off North	24m off North	15m off North	-	
Location/Chainage/Easting:	(m)	Boundary	Boundary	Boundary		
	ł	9m off West	8m off West	8m off West	<u>+ </u>	
Position/Offset/Northing:	(m)	Boundary	Boundary	Boundary		
Level/Layer/R.L.	1	F/L	F/L	F/L	-	_
Layer Depth:	(mm)			-		
Depth Tested:	(mm)		150	150	+ <u> </u>	
Field & Laboratory Result		<u></u>			<u> </u>	
Field Wet Density:	(t/m ³)	2.19	2.11	2.19		-
Field Dry Density:	(t/m ³)		1.90	1.99		
Retained Oversize (Wet basis		0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	-
Retained Oversize (Dry basis	s): (%)	0% on 19.0mm	0% on 19.0mm	0% on 19.0mm	-	
Moisture Content Method -	AS1289:	.2.1.1 - Oven	.2.1.1 - Oven	.2.1.1 - Oven	-	-
Field Moisture Content:	(%)	10.5	11.0	10.5	-	-
Adjusted Lab OMC:	(%)	11.0	11.5	10.5	-	
Fraction Tested:	Γ	Passing 19.0mm	Passing 19.0mm	Passing 19.0mm	-	-
Lab Maximum Dry Density (I	MDD): (t/m³)		1.95	2.01	-	-
Adjusted Lab MDD:	(t/m ³)	1.96	1.95	2.01	-	-
Report & Date of Lab Reference De	nsity Test:	-				
Relative Compaction & M						
Moisture Ratio	(%)	96.5	95.0	98.0	-	
Moisture Variation	(%)	0.5 Dry of OMC	0.5 Dry of OMC	0.0 Dry of OMC	-	
Density Ratio	(%)	101.0	97.5	99.0	-	-
Characteristic Values of t	he Lot.	CV calculations derived	from Austroads NTR-(9 publication		
Specified Mois	ture	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	-	84	13	86.5	6.9	0.355
Maximum (%)	-	89	13	86.5	6.9	0.355
Specified Compo	action	Characteristic Value	Number of Tests	Mean	Standard Deviation	Constant k
Minimum (%)	95	98.5	13	99.04	1.44	0.355
		99.5	13	99.04	1.44	0.355
Maximum (%)	-					

Remarks Regarding t	he Lot.
Laboratory testing (
	s report 18. A typographical error made when inputting locations.
	Accredited for compliance with ISO/IEC 17025 - Testing. The



Appendix C

Individual Lot Certificates



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 501

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 501 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **501** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 502

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 502 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **502** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 503

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 503 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **503** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 504

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 504 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **504** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 505

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 505 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **505** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 506

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 506 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **506** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 507

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 507 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **507** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 508

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 508 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **508** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 509

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 509 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **509** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 510

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 510 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **510** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



ASCT Brisbane South PO Box 1232 PARK RIDGE QLD 4125 ABN: 28 608 830 306 ACN: 608 830 306

ACN: 608 830 306 Mobile: 0437 776 582 or 0439 776 589 Email: <u>brisbane.south@asct.com.au</u> Web: <u>www.asct.com.au</u>

22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 511

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 511 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **511** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 512

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 512 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **512** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 513

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 513 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **513** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 514

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 514 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **514** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 515

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 515 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **515** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 516

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 516 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **516** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 517

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 517 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

ustralian Soil and Concrete Testing was commissioned by RMD Urban Pty Ltd to provide earthworks

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **517** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 518

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 518 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **518** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 519

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 519 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **519** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 520

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 520 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **520** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



Web: www.asct.com.au

22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 521

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 521 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **521** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 522

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 522 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **522** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 523

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 523 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007

Fill was placed on the allotment between 09/02/23 and 27/04/23.

'Guidelines on earthworks for commercial and residential developments'.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **523** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 524

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 524 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **524** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 525

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 525 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **525** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 526

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 526 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **526** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 527

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 527 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **527** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 528

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 528 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **528** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager


22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 529

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 529 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **529** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 530

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 530 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **530** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 536

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 536 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **536** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 537

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 537 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **537** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 538

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 538 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **538** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 539

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 539 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **539** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 540

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 540 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **540** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 541

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 541 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **541** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 542

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 542 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **542** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 543

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 543 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **543** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 546

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 546 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **546** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 547

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 547 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **547** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 548

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 548 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **548** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 549

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 549 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **549** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 550

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 550 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **550** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 607

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 607 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **607** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 608

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 608 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **608** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 609

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 609 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **609** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 610

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 610 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **610** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 611

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 611 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **611** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 612

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 612 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **612** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 613

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 613 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **613** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 614

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 614 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **614** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 615

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 615 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **615** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 616

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 616 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **616** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 617

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 617 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **617** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 618

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 618 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **618** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 619

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 619 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **619** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 620

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 620 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **620** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



ASCT Brisbane South PO Box 1232 PARK RIDGE QLD 4125 ABN: 28 608 830 306 ACN: 608 830 306 Mobile: 0437 776 582 or 0439 776 589

Mobile: 0437 776 582 or 0439 776 589 Email: <u>brisbane.south@asct.com.au</u> Web: <u>www.asct.com.au</u>

22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 621

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 621 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007

'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **621** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 622

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 622 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **622** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 623

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 623 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **623** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 624

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 624 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007

Fill was placed on the allotment between 09/02/23 and 27/04/23.

'Guidelines on earthworks for commercial and residential developments'.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **624** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 625

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 625 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007

Fill was placed on the allotment between 09/02/23 and 27/04/23.

'Guidelines on earthworks for commercial and residential developments'.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **625** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 626

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 626 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **626** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 627

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 627 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **627** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager


22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 628

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 628 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **628** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 629

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 629 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **629** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 630

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 630 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **630** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



Web: www.asct.com.au

22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 631

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 631 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **631** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 632

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 632 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **632** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 633

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 633 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **633** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 634

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 634 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **634** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 635

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 635 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **635** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 639

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 639 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **639** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 640

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 640 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **640** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



Web: www.asct.com.au

22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 641

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 641 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **641** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 642

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 642 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **642** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 643

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 643 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **643** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 644

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 644 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **644** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 646

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 646 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **646** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 647

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 647 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **647** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 648

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 648 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **648** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 658

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 658 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **658** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 659

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 659 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **659** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 660

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 660 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **660** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 661

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 661 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **661** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 662

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 662 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **662** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 663

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 663 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **663** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 701

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 701 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **701** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 702

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 702 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007

'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **702** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 703

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 703 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **703** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 704

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 704 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **704** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 705

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 705 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007

Fill was placed on the allotment between 09/02/23 and 27/04/23.

'Guidelines on earthworks for commercial and residential developments'.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **705** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 706

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 706 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **706** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 707

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 707 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **707** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 708

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 708 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **708** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 709

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 709 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **709** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 710

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 710 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **710** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 711

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 711 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **711** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 712

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 712 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **712** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



Web: www.asct.com.au

22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 713

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 713 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **713** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager


22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 714

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 714 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **714** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 715

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 715 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **715** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 716

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 716 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **716** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 724

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 724 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **724** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 725

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 725 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **725** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 726

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 726 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **726** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 727

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 727 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **727** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 728

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 728 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **728** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 729

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 729 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **729** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 730

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 730 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **730** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 743

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 743 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **743** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 744

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 744 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **744** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 745

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 745 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **745** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 746

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 746 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **746** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 747

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 747 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **747** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 748

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 748 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **748** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 749

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 749 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **749** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 765

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 765 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **765** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 766

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 766 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **766** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 772

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 772 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **772** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 773

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 773 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **773** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 774

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 774 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **774** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 775

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING LOT 775 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **775** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager



22nd May 2023 Ref No: 1462_Level 1_Aurora Stage 5, 6 & 7_Lot 776

BMD Urban Pty Ltd Level 1, 25 Cambridge Parade Manly QLD 4179

CERTIFICATE OF CONTROLLED FILLING

LOT 776 – Aurora Stage 5, 6 & 7 - Daleys Road Ripley

Australian Soil and Concrete Testing was commissioned by BMD Urban Pty Ltd to provide earthworks inspection and testing services on a 'Level 1' basis in accordance with the requirements of AS 3798-2007 'Guidelines on earthworks for commercial and residential developments'.

Fill was placed on the allotment between 09/02/23 and 27/04/23.

Based on the observations made by Australian Soil and Concrete Testing and the test results obtained during construction the structural fill placed on allotment **776** is considered to have been carried out in general accordance with AS3798-2007 and is considered to be Controlled Fill as defined in AS2870 – 2011 *'Residential Slabs & Footings'*.

Full details of the inspection and testing conducted is included in our report Ref No: **1462_Level 1_Aurora Stage 5, 6 & 7** Dated 22nd May 2023.

Please do not hesitate to contact me if you have any queries.

Yours faithfully

Jason Mckenna Laboratory Manager