



Brisbane Soil Testing

20/1191 Anzac Ave

Kallangur, Q. 4503

Ph. (07) 3285 6536

Email. brissoil@bigpond.net.au

Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

Job No. 202406

14th of August 2026

BMD Urban Pty Ltd

PO Box 197

WYNNUM CENTRAL QLD 4178

Attn Steven Bennett

RE: AIRE – STAGE 4 (REVISED REPORT)

Craig Road, Upper Caboolture QLD 4510

(Bulk Earthworks Fill – Geotechnical Inspection & Testing)

(Revised to now include additional testing to lot's 401, 402 and bio basin).

SCOPE

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

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

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

CONTROL INSPECTION AND TESTING

An inspection of the areas to be filled was carried out on 22nd of May 2024 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff.

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

Bulk earthworks filling to Stage 4 was completed during two major phases. Phase 1 between the 27th of May 2024 to the 24th of September 2024 & phase 2 between the 29th of August 2025 to the 13th of October 2025.

Minor earthworks were conducted in lot's 401, 402 and the bio basin between the 22nd of April 2026 and the 5th of May 2026 to bring these areas up to design final level.

Fifty-three (53) field density tests were carried out between the 27th of May 2024 and the 5th of May 2026. These tests recorded Dry Density Ratios between 96.0% and 103.5% relative to the standard compaction test and field moisture contents within – 2.5% and +2.0% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Report Nos. 49846, 50318, 50388, 51246, 51337, 51339, 51340, 51343, 51352, 51353, 51360, 51362, 51365, 51367, 51374, 51376, 51379, 51400, 51425, 51429, 51971, 51975, 51993 & 52002) provide full test data for the compaction control tests.

No fill was placed on lots 403 – 413 & 435 – 441 during our Level 1 inspection and testing commission.

CONCLUSION

Based on the test results and site inspections, we conclude that the fill foundation is considered to comply with requirements of Table 5.1- Item 1 & 2 of AS3798-2007 and the project specifications.

We confirm that all vegetation and topsoil was removed, and that a sound base for the proposed filling was provided.

We further confirm that all filling to design final level can be termed controlled filling in accordance with Section 6.4.2 of AS2870-2011, via “Level 1” inspection and testing commission.



GREG McGRANN
BRISBANE SOIL TESTING
MANAGING DIRECTOR



SAM JEYAN
BRISBANE SOIL TESTING
RPEQ. No.13339 - GEOTECHNICAL

Attachments:

Level 1 Test Locations

Individual Allotment Certificates

Field Density Test Reports

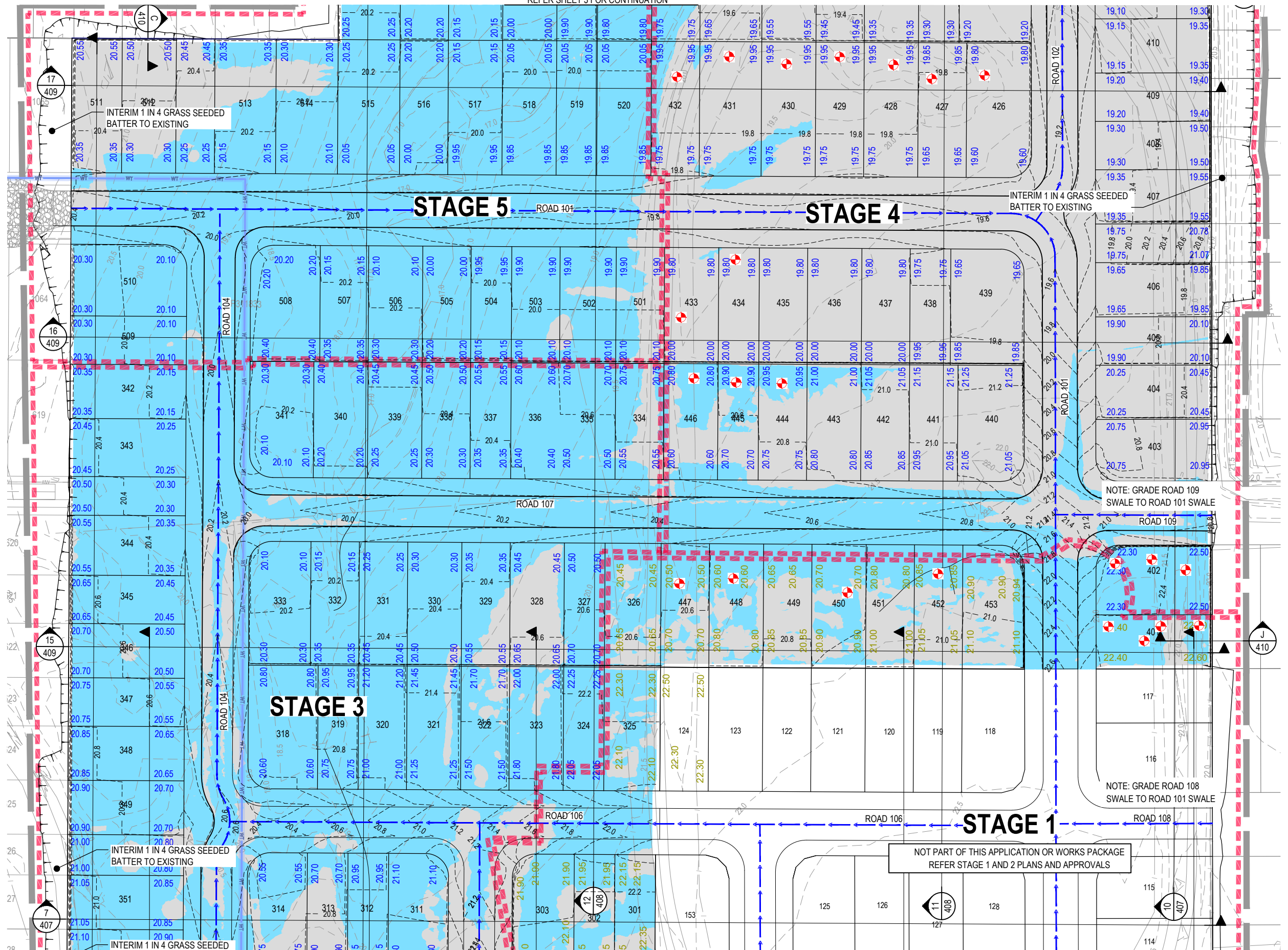


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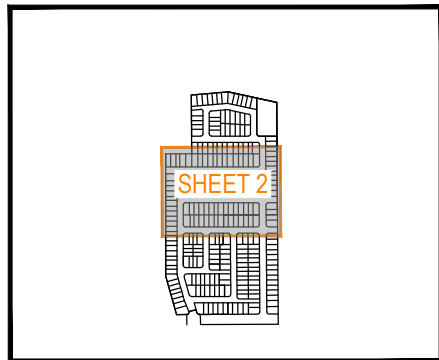


REFER SHEET 3 FOR CONTINUATION



NOTE:

FOR LEGEND REFER TO DWG 18-0159-403

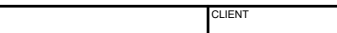


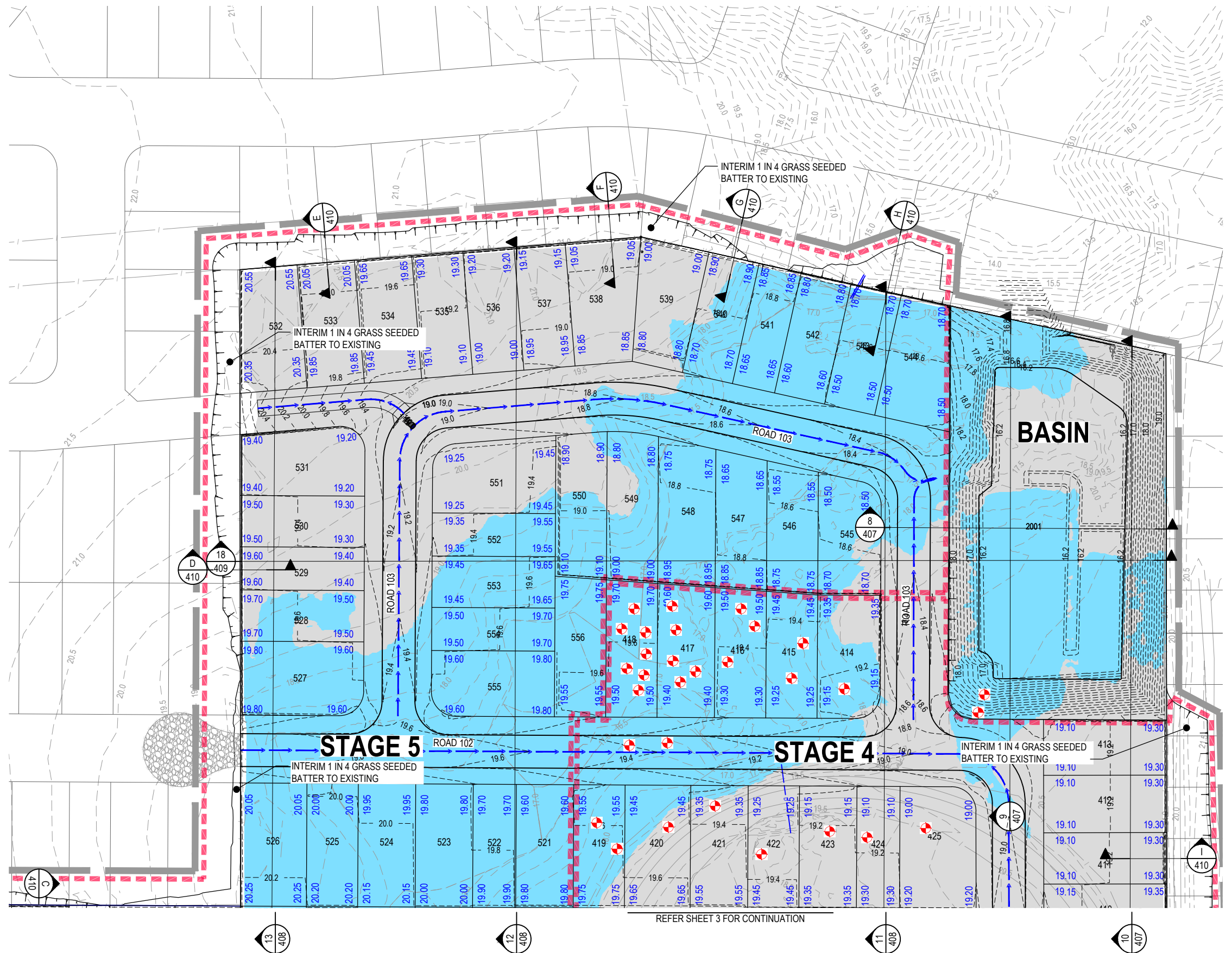
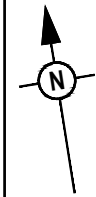
KEYPLAN

SCALE: 1:10000 (A1)

SCALE: 1:20000 (A3)

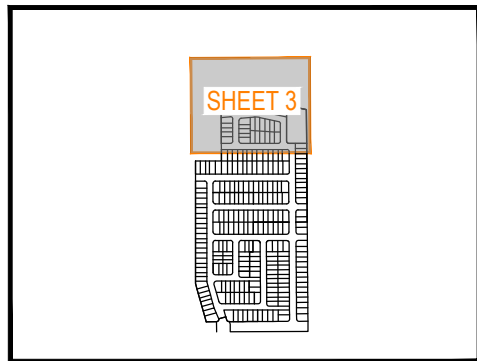
REFER SHEET 1 FOR CONTINUATION

REVISION DETAILS				DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
REV	DATE	DESIGN	DRAWN	OF	ISSUED FOR CONSTRUCTION			1:500 1:1000	ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD	AIRE - BULK EARTHWORKS STAGES 3-5	LAYOUT PLAN SHEET 2 OF 3			
1	19.12.23	DC	NA									ORIGINAL ISSUE		
2	06.02.24	DC	NA									AMENDED EARTHWORKS		
3	06.03.24	DC	NA									COUNCIL RFI DATED 05.03.24		
4	01.04.25	DC	OF	STG 4 & 5 DESIGN AMENDMENTS										
5	16.05.25	DC	OF	AMENDED EARTHWORKS										
				DESIGN	APPROVED	DATE								
				DC	JAMES VONHOFF	RPEQ 32647	22.05.25							
														
					FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD									



NOTE:

FOR LEGEND REFER TO DWG 18-0159-403



KEYPLAN
SCALE: 1:10000 (A1)
SCALE: 1:20000 (A3)

REVISION DETAILS					DRAWN		STATUS		Colliers	CLIENT		PROJECT NAME		DRAWING TITLE		
REV	DATE	DESIGN	DRAWN		OF		ISSUED FOR CONSTRUCTION			ORCHARD (CRAIG ROAD) DEVELOPMENTS PTY LTD		AIRE - BULK EARTHWORKS STAGES 3-5		LAYOUT PLAN SHEET 3 OF 3		
1	19.12.23	DC	NA	ORIGINAL ISSUE	DESIGN	APPROVED				ASSOCIATED CONSULTANT				PROJECT No.	DRAWING No.	REVISION
2	06.02.24	DC	NA	AMENDED EARTHWORKS	DC	JAMES VONHOFF	RPEQ 32647	DATE 22.05.25		LAND PARTNERS				18-0159	405	5
3	06.03.24	DC	NA	COUNCIL RFI DATED 05.03.24						(07) 3842 1000						
4	01.04.25	DC	OF	STG 4 & 5 DESIGN AMENDMENTS												
5	16.05.25	DC	OF	AMENDED EARTHWORKS												

**Brisbane Soil Testing**

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Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

14 August 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 401

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 401 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 401 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



Brisbane Soil Testing

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14 August 2026

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 402

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 402 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 402 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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7 November 2025

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PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 414

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 414 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 414 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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7 November 2025

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PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 415

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 415 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 415 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 416

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 416 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 416 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 417

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 417 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 417 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 418

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 418 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 418 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann

Managing Director

Brisbane Soil Testing



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7 November 2025

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 419

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 419 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 419 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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7 November 2025

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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 420

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 420 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 420 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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7 November 2025

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PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 421

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 421 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 421 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



Brisbane Soil Testing

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7 November 2025

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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 422

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 422 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 422 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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7 November 2025

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 4

LOT NO. 423

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 423 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 423 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



Brisbane Soil Testing

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7 November 2025

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PO Box 197

WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 424

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 424 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 424 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann

Managing Director

Brisbane Soil Testing



Brisbane Soil Testing

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7 November 2025

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PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 425

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 425 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 425 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



Brisbane Soil Testing

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WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 426

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 426 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 426 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



Brisbane Soil Testing

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Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

7 November 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 427

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 427 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 427 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 428

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 428 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 428 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 429

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 429 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 429 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 430

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 430 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 430 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

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RE: CONTROLLED FILL CERTIFICATE
LOCATION: AIRE – STAGE 4

LOT NO. 431

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 431 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 431 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 432

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 432 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 432 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 433

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 433 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 433 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann

Managing Director

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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 434

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 434 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 434 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 442

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 442 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 442 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 443

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 443 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 443 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 444

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 444 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 444 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 445

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 445 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 445 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 446

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 446 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 446 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 447

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 447 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 447 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 448

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 448 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 448 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 449

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 449 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 449 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 450

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 450 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 450 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 451

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 451 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 451 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
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RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 452

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 452 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 452 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

7 November 2025

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE

LOCATION: AIRE – STAGE 4

LOT NO. 453

Brisbane Soil Testing were commissioned on this project to provide geotechnical earthworks inspection and testing services on a Level 1 basis as detailed in Clause 8.2 of AS 3798-2007 "Guidelines on earthworks for commercial and residential developments". Full details of the inspection and testing program are provided in the Brisbane Soil Testing Level 1 Report dated 7 November 2025.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 453 has been placed in a controlled manner to achieve a minimum dry density ratio of 95% (AS1289.5.1.1/5.7.1 Standard Compaction) and is considered to comply with the requirements of Table 5.1 Item 1 of AS3798-2007 and the project specifications.

We further confirm that all fill to design final level on Lot 453 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



Brisbane Soil Testing

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49846
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	27/05/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
31092	9:45	150	LOT 401 LOC ON ATT PLAN R.L. 22.44	31092	-	30.0	27.5	Adj. 2.5 WET	1.92	Adj. 1.95	98.5
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 04/06/2024



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Checked By: G MCGRANN

Greg McGrann/Manager

Approved Signatory

Date: 04/06/2024



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50318
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	10/09/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
32397	9:15	150	LOT 418 LOC ON ATT PLAN R.L. 13.30	32397	-	19.0	21.0	Adj. 2.0 DRY	1.96	Adj. 2.02	97.0
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 17/09/2024

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 17/09/2024



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50388
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	24/09/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
32568	11:30	150	LOT 418 LOC ON ATT PLAN R.L. 14.61	32568	-	25.5	25.0	Adj. 0.5 WET	1.99	Adj. 1.99	100.0
Material Description: REDDISH GREY SILTY CLAY											
32569	12:50	150	LOT 417 LOC ON ATT PLAN R.L. 15.17	32569	-	27.0	26.0	Adj. 1.0 WET	1.99	Adj. 1.97	101.0
Material Description: REDDISH GREY SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 30/09/2024

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 30/09/2024



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51246
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	18/07/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35266	7:40	150	LOT 401 LOC ON ATT PLAN R.L. 22.12	35266	-	16.0	16.5	Adj. 0.5 DRY	2.19	Adj. 2.14	102.5
Material Description: LIGHT BROWN SILTY SANDY CLAY											
35267	9:00	150	LOT 402 LOC ON ATT PLAN R.L. 22.03	35267	-	16.5	17.5	Adj. 1.0 DRY	2.13	Adj. 2.12	100.5
Material Description: BROWN SILTY SANDY CLAY											
35268	9:45	150	LOT 452 LOC ON ATT PLAN R.L. 20.63	35268	-	20.5	20.0	Adj. 0.5 WET	2.01	Adj. 2.04	98.5
Material Description: YELLOW BROWN SILTY CLAY											
35269	10:25	150	LOT 450 LOC ON ATT PLAN R.L. 20.56	35269	-	24.0	23.5	Adj. 0.5 WET	1.96	Adj. 2.01	97.5
Material Description: ORANGE BROWN & GREY SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 21/07/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 21/07/2025



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51337
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	29/08/2025	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35615	11:15	150	LOT 418 LOC ON ATT PLAN R.L. 15.86	35615	-	18.0	17.0	Adj. 1.0 WET	2.03	Adj. 2.09	97.0
Material Description: DARK BROWN SILTY CLAY											
35616	12:30	150	LOT 417 LOC ON ATT PLAN R.L. 16.13	35616	-	18.0	18.0	Adj. -	2.04	Adj. 2.07	98.5
Material Description: DARK BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 01/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 01/09/2025



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51339
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	01/09/2025	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35623	13:45	150	LOT 416 LOC ON ATT PLAN R.L. 16.60	35623	-	21.0	19.5	Adj. 1.5 WET	2.11	Adj. 2.05	103.0
Material Description: BROWN SILTY CLAY											
35625	14:30	150	LOT 418 LOC ON ATT PLAN R.L. 16.30	35625	-	19.0	17.5	Adj. 1.5 WET	2.11	Adj. 2.08	101.5
Material Description: DARK BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 02/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 02/09/2025



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51340
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	03/09/2025	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35648	8:10	150	LOT 417 LOC ON ATT PLAN R.L. 16.60	35648	-	26.0	25.0	Adj. 1.0 WET	1.99	Adj. 1.96	101.5
Material Description: GREY BROWN SILTY CLAY											
35649	8:45	150	LOT 418 LOC ON ATT PLAN R.L. 16.89	35649	-	23.0	22.0	Adj. 1.0 WET	1.96	Adj. 2.03	96.5
Material Description: REDDISH BROWN SILTY CLAY											
35650	14:10	150	LOT 416 LOC ON ATT PLAN R.L. 17.26	35650	-	20.5	20.0	Adj. 0.5 WET	2.00	Adj. 2.04	98.0
Material Description: REDDISH BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 04/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 04/09/2025



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51343
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	05/09/2025	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35670	11:45	150	LOT 421 LOC ON ATT PLAN R.L. 16.98	35670	-	23.0	23.5	Adj. 0.5 DRY	1.97	Adj. 2.01	98.0
Material Description: GREY BROWN SILTY CLAY											
35671	13:10	150	ROAD 102 LOC ON ATT PLAN R.L. 17.33	35671	-	21.0	19.5	Adj. 1.5 WET	2.02	Adj. 2.03	99.5
Material Description: DARK BROWN SILTY CLAY											
35672	13:50	150	LOT 418 LOC ON ATT PLAN R.L. 17.67	35672	-	19.5	19.0	Adj. 0.5 WET	2.09	Adj. 2.06	101.5
Material Description: BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 08/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 08/09/2025



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51352
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	11/09/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35699	12:00	150	LOT 415 LOC ON ATT PLAN R.L. 17.97	35699	-	22.5	22.0	Adj. 0.5 WET	1.96	Adj. 2.04	96.0
Material Description: GREY BROWN SILTY CLAY											
35700	13:15	150	LOT 417 LOC ON ATT PLAN R.L. 18.30	35700	-	23.0	24.0	Adj. 1.0 DRY	2.01	Adj. 2.00	99.5
Material Description: GREY BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 12/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 12/09/2025



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51353
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	12/09/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35705	9:00	150	LOT 419 LOC ON ATT PLAN R.L. 18.11	35705	-	21.0	20.0	Adj. 1.0 WET	2.00	Adj. 2.07	96.5
Material Description: YELLOW BROWN SILTY CLAY											
35706	9:30	150	ROAD 102 LOC ON ATT PLAN R.L. 18.02	35706	-	21.0	19.5	Adj. 1.5 WET	2.05	Adj. 2.10	97.5
Material Description: YELLOW BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 15/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 15/09/2025



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51360
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	15/09/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35712	11:05	150	LOT 420 LOC ON ATT PLAN R.L. 18.44	35712	-	18.0	19.0	Adj. 1.0 DRY	2.09	Adj. 2.09	100.0
Material Description: DARK BROWN SILTY CLAY											
35713	12:00	150	LOT 414 LOC ON ATT PLAN R.L. 18.71	35713	-	23.0	24.5	Adj. 1.5 DRY	1.96	Adj. 1.98	99.0
Material Description: DARK GREY BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 16/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 16/09/2025



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51362
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	17/09/2025	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35769	8:00	150	LOT 416 LOC ON ATT PLAN R.L. 18.94	35769	-	19.0	18.5	Adj. 0.5 WET	2.08	Adj. 2.06	101.0
Material Description: DARK BROWN SILTY CLAY											
35770	13:10	150	LOT 418 LOC ON ATT PLAN R.L. 19.10	35770	-	17.0	17.0	Adj. -	2.19	Adj. 2.13	103.0
Material Description: DARK BROWN SILTY SANDY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 18/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 18/09/2025



Brisbane Soil Testing

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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51365
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	18/09/2025	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35786	11:50	150	LOT 432 LOC ON ATT PLAN R.L. 19.59	35786	-	24.0	22.5	Adj. 1.5 WET	2.06	Adj. 2.02	102.0
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 19/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 19/09/2025



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51367
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	19/09/2025	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35789	9:50	150	LOT 423 LOC ON ATT PLAN R.L. 18.84	35789	-	26.0	24.0	Adj. 2.0 WET	2.00	Adj. 1.99	100.5
Material Description: DARK GREY BROWN SILTY CLAY											
35790	10:25	150	LOT 425 LOC ON ATT PLAN R.L. 18.72	35790	-	25.5	25.0	Adj. 0.5 WET	1.93	Adj. 1.96	98.5
Material Description: DARK GREY BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 22/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 22/09/2025



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51374
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	22/09/2025	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35811	10:05	150	LOT 422 LOC ON ATT PLAN R.L. 19.11	35811	-	17.5	19.0	Adj. 1.5 DRY	2.01	Adj. 2.09	96.0
Material Description: DARK BROWN SILTY CLAY											
35812	10:50	150	LOT 424 LOC ON ATT PLAN R.L. 18.93	35812	-	18.0	18.0	Adj. -	2.09	Adj. 2.14	97.5
Material Description: DARK BROWN SILTY CLAY											
35813	12:00	150	LOT 419 LOC ON ATT PLAN R.L. 19.20	35813	-	20.0	20.5	Adj. 0.5 DRY	2.05	Adj. 2.07	99.0
Material Description: BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 23/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 23/09/2025



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51376
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	24/09/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35824	9:30	150	LOT 415 LOC ON ATT PLAN R.L. 18.91	35824	-	18.5	20.5	Adj. 2.0 DRY	2.04	Adj. 2.05	99.5
Material Description: LIGHT BROWN SILTY CLAY											
35825	10:00	150	LOT 417 LOC ON ATT PLAN R.L. 19.15	35825	-	20.5	21.5	Adj. 1.0 DRY	2.08	Adj. 2.05	101.5
Material Description: LIGHT REDDISH BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 25/09/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 25/09/2025



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51379
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	25/09/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35840	9:45	150	LOT 432 LOC ON ATT PLAN R.L. 19.51	35840	-	21.0	20.5	Adj. 0.5 WET	2.02	Adj. 2.07	97.5
Material Description: BROWN SILTY CLAY											
35841	11:00	150	LOT 431 LOC ON ATT PLAN R.L. 19.77	35841	-	22.5	21.5	Adj. 1.0 WET	2.01	Adj. 2.05	98.0
Material Description: BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 26/09/2025

Checked By: G MCGRANN



Accreditation No.2415

Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Greg McGrann/Manager

Approved Signatory

Date: 26/09/2025



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51400
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	07/10/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35891	10:15	150	LOT 433 LOC ON ATT PLAN R.L. 19.63	35891	-	21.5	21.5	Adj. -	2.04	Adj. 2.07	98.5
Material Description: ORANGE BROWN SILTY CLAY											
35892	11:00	150	LOT 434 LOC ON ATT PLAN R.L. 19.59	35892	-	20.5	21.0	Adj. 0.5 DRY	2.03	Adj. 2.08	97.5
Material Description: ORANGE BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 08/10/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 08/10/2025



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51425
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	10/10/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35927	8:20	150	LOT 448 LOC ON ATT PLAN R.L. 20.33	35927	-	21.0	20.5	Adj. 0.5 WET	2.11	Adj. 2.08	101.5
Material Description: ORANGE BROWN SILTY SANDY CLAY											
35928	9:00	150	LOT 447 LOC ON ATT PLAN R.L. 20.25	35928	-	22.0	21.0	Adj. 1.0 WET	2.13	Adj. 2.06	103.5
Material Description: ORANGE BROWN SILTY CLAY											
35929	9:45	150	LOT 444 LOC ON ATT PLAN R.L. 20.64	35929	-	20.0	19.0	Adj. 1.0 WET	2.13	Adj. 2.11	101.0
Material Description: YELLOW BROWN SILTY CLAY											
35930	11:10	150	LOT 445 LOC ON ATT PLAN R.L. 20.60	35930	-	21.0	22.0	Adj. 1.0 DRY	2.02	Adj. 2.04	99.0
Material Description: ORANGE BROWN SILTY CLAY											
35931	11:50	150	LOT 446 LOC ON ATT PLAN R.L. 20.55	35931	-	19.5	20.0	Adj. 0.5 DRY	2.07	Adj. 2.07	100.0
Material Description: YELLOW BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 16/10/2025



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Checked By: G MCGRANN

Greg McGrann/Manager
Approved Signatory
Date: 16/10/2025



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	51429
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	13/10/2025	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
35950	8:40	150	LOT 429 LOC ON ATT PLAN R.L. 19.73	35950	-	20.0	21.0	Adj. 1.0 DRY	2.04	Adj. 2.06	99.0
Material Description: YELLOW BROWN SILTY CLAY											
35951	9:30	150	LOT 428 LOC ON ATT PLAN R.L. 19.71	35951	-	22.5	23.0	Adj. 0.5 DRY	2.06	Adj. 2.05	100.5
Material Description: GREY BROWN SILTY CLAY											
35952	10:15	150	LOT 427 LOC ON ATT PLAN R.L. 19.54	35952	-	25.0	24.5	Adj. 0.5 WET	1.94	Adj. 2.00	97.0
Material Description: GREY BROWN SILTY CLAY											
35953	11:05	150	LOT 426 LOC ON ATT PLAN R.L. 19.57	35953	-	24.0	23.5	Adj. 0.5 WET	1.95	Adj. 2.02	96.5
Material Description: GREY BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 18/10/2025

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 18/10/2025



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BIO BASIN BACKFILL	Report No.	51971
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	22/04/2026	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
37618	13:15	150	BIO BASIN LOC ON ATT PLAN R.L. 16.07	37618	-	18.0	18.5	Adj. 0.5 DRY	2.13	Adj. 2.14	99.5
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 98% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 24/04/2026

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 24/04/2026



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BIO BASIN BACKFILL	Report No.	51975
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	23/04/2026	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
37635	10:00	150	BIO BASIN LOC ON ATT PLAN R.L. 16.43	37635	-	14.0	15.0	Adj. 1.0 DRY	2.13	Adj. 2.17	98.0
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 98% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 24/04/2026

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 24/04/2026



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.

ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	51993
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	30/04/2026	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
37714	13:00	150	LOT 402 2m Front bdy, 2m Right bdy R.L. 21.63	37714	-	23.0	22.5	Adj. 0.5 WET	1.96	Adj. 2.04	96.0
Material Description: GREY BROWN SILTY CLAY											
37715	14:30	150	LOT 401 2m Front bdy, 2m Left bdy R.L. 21.81	37715	-	23.0	23.0	Adj. -	2.03	Adj. 2.03	100.0
Material Description: GREY BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 04/05/2026

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 04/05/2026



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647

Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL	Report No.	52002
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202406
Project	AIRE – STAGE 4	Date Tested	05/05/2026	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
37719	10:05	150	LOT 402 3m Front bdy, 2m Left bdy R.L. 22.19	37719	-	20.5	21.0	Adj. 0.5 DRY	2.00	Adj. 2.02	99.0
Material Description: GREY BROWN SILTY CLAY											
37720	13:40	150	LOT 401 3m Front bdy, 3m Left bdy R.L. 22.21	37720	-	22.0	23.0	Adj. 1.0 DRY	1.98	Adj. 2.01	98.5
Material Description: YELLOW BROWN & GREY SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN

Date: 07/05/2026

Checked By: G MCGRANN



Accredited for compliance with ISO/IEC 17025 – Testing.
Results relate only to the items tested.

Accreditation No.2415

Greg McGrann/Manager

Approved Signatory

Date: 07/05/2026