



## **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

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Job No. 202404

26<sup>th</sup> of August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

Attn Alex Wood

**RE: LILYWOOD LANDINGS – STAGE 23**  
**CABOOLTURE RIVER ROAD – UPPER CABOOLTURE QLD 4510**  
(Bulk Earthworks – Geotechnical Inspection & Testing)

### **SCOPE**

Brisbane Soil Testing were commissioned by BMD Urban Pty Ltd to provide geotechnical inspection and testing of the bulk earthworks - allotment fill, embankment fill and basin fill on the above stage subdivision.

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

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

### **CONTROL INSPECTION AND TESTING**

An inspection of the areas to be filled was carried out on the 2<sup>nd</sup> of February 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 compactor.

An existing water well located in Lot 664 was decommissioned, then supervised and tested via a level 1 inspection and testing commission. (Level 1 report attached).

Forty-four density tests were carried between the 6<sup>th</sup> of February 2024 and the 19<sup>th</sup> of August 2024. These tests recorded Dry Density Ratios between 95.5% and 104.0% relative to the standard compaction test and field moisture contents within -1.5% and +2.5% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Report Nos. 49474, 49498, 49499, 49501, 49549, 49566, 49567, 49610, 49803, 49835, 49837, 49838, 49939 & 50219) provide full test data for the compaction control tests.

The locations of all tests taken are shown on the attached drawing numbers 1210, 1211 and 1212 Revision D, titled "Stage 23 Bulk Earthworks Test Locations".

No fill was placed on lots 661-663, 665-667 and 669-672 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 & 3 of AS3798-2007 and the project specifications.

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



GREG McGRANN  
MANAGING DIRECTOR  
**BRISBANE SOIL TESTING**



SAM JEYAN  
GEOTECHNICAL ENGINEER  
**BRISBANE SOIL TESTING**  
RPEQ. No. 13339 GEOTECHNICAL

### **Attachments:**

Level 1 Test Locations

Individual Allotment Certificates

Field Density Test Reports

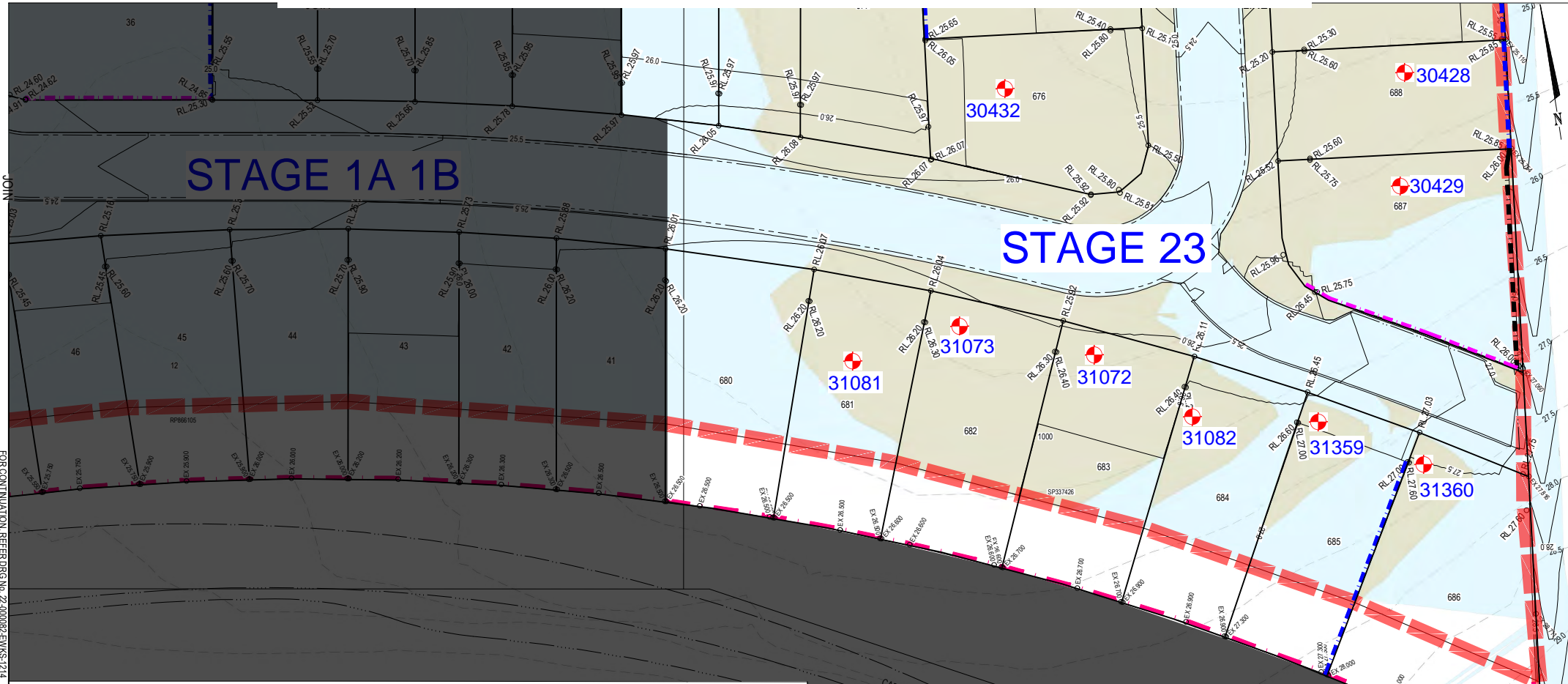
Level 1 Report (Existing Water Wells) – Stages 1A & 1B & 23 Dated 14/08/2024



**Brisbane Soil Testing**

20/1191 Anzac Ave  
Kallangur, Q. 4503

# STAGE 23 BULK EARTHWORKS TEST LOCATIONS



FOR CONTINUATION, REFERRING No. 22-000082-EWKS-1214

### LEGEND

- — — — — STAGE BOUNDARY
- — — — — PROPOSED LOT BOUNDARY
- - - - - EARTHWORKS EXTENT BOUNDARY
- - - - - CONCRETE SLEEPER RETAINING WALL TYPE 1
- - - - - CONCRETE SLEEPER RETAINING WALL TYPE 2
- - - - - 'A' GRADE SANDSTONE ROCK RETAINING WALL
- - - - - EXISTING SURFACE CONTOUR (0.5m INTERVALS)
- - - - - DESIGN SURFACE CONTOUR (0.50m INTERVALS)
- AREA OF CUT
- AREA OF FILL
- x RL.20.60 FINISHED SURFACE LEVEL
- o FRL.20.50 FUTURE SURFACE LEVEL (BY OTHERS)
- x EX.18.918 EXISTING SURFACE LEVEL

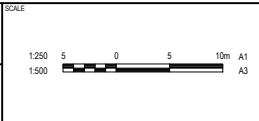
### EARTHWORKS NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES WITH THE RELEVANT AUTHORITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL REMOVE ALL STRUCTURES, DEBRIS AND FENCES FROM THE SITE TO THE SATISFACTION OF THE SUPERINTENDENT.
3. EXISTING SURFACE IS TO BE CLEAR OF VEGETATION MATTER PRIOR TO THE START OF FILLING.
4. FILL IS TO BE OF GOOD QUALITY AND FREE OF UNSUITABLE MATERIAL AS DEFINED BY AS3798-2007.
5. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, THE FINISHED SURFACE LEVELS MAY BE ADJUSTED BY THE WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION AFTER AMENDED DRAWINGS HAVE BEEN APPROVED BY COUNCIL.
6. ALL EXCAVATION AND FILLING SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF AS3798-2007 AND IN ACCORDANCE WITH THE CURRENT COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS.
7. LEVEL 1 CERTIFICATION IS REQUIRED ON ALL EARTHWORKS IN ACCORDANCE WITH AS3798-2007. WITH SUPERVISION CERTIFICATION UNDERTAKEN BY AN **RPEQ GEOTECHNICAL ENGINEER**.
8. ALL DRAINAGE STRUCTURES ARE TO BE PRESERVED FROM THE EFFECTS OF STRUCTURAL LOADING GENERATED BY THE EARTHWORKS.
9. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
10. ALL LEVELS ARE IN METRES ABOVE AUSTRALIAN HEIGHTS DATUM (mAHD) UNLESS OTHERWISE SHOWN
11. CIVIL CONTRACTOR TO LEAVE VERGES **100mm BELOW FINISHED SURFACE LEVEL**. LANDSCAPE CONTRACTOR TO RESPREAD TOPSOIL AND STABILISE. REFER LANDSCAPE ARCHITECT'S PLANS FOR DETAILS.
12. **CONTOURS SHOWN ARE DEVELOPED FINISHED SURFACE CONTOURS**. CONTRACTOR IS TO ENSURE CUT OFF DRAINS ARE FREE DRAINING TO SEDIMENT BASINS. (I.E. NO WATER PONDING)
13. DESIGN FINISH SURFACE LEVELS SHOWN ARE INCLUSIVE OF TOPSOIL LAYER WHERE APPLICABLE

Received  
BMD Urban Pty Ltd  
20/11/2023

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN
A	03.03.23	ISSUED FOR APPROVAL	IB	AA
B	25.05.23	MINOR AMENDMENTS	IB	AA
C	23.06.23	REVISED AS PER MBRC COMMENTS	HSL	AA
D	17.11.23	ISSUED FOR CONSTRUCTION	AA	AA

<b>FOR CONSTRUCTION</b>
DESIGN CHECK: <b>aa</b> APPROVED: <b>RYAN ASHBY</b> RPEQ 19674 FOR & ON BEHALF OF: <i>Ryan Ashby</i>



CLIENT: **FOREVERLEN PTY LTD**

**LENNIUM GROUP**

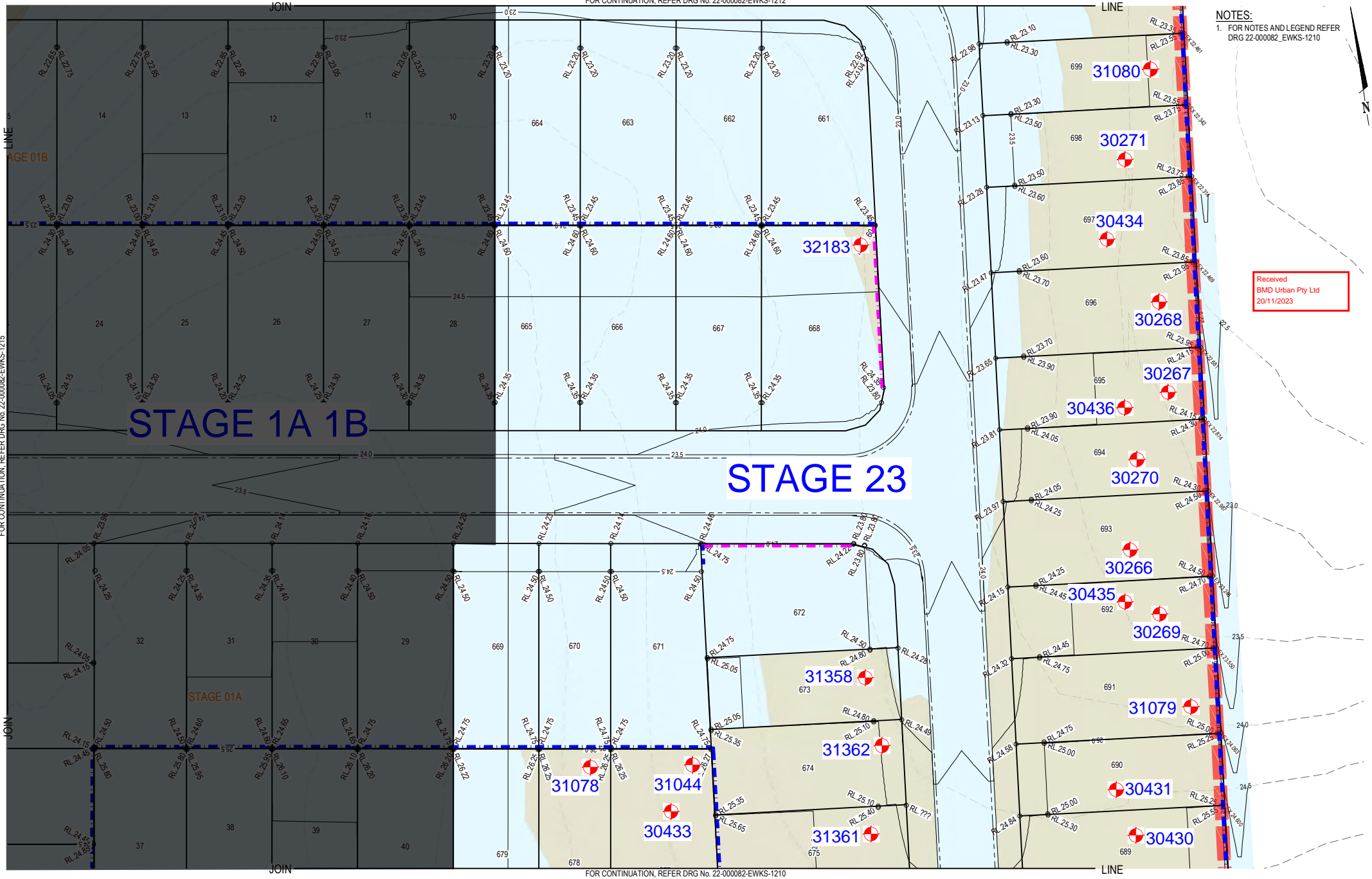
**egis**

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www.egis-group.com

PROJECT: **LANDINGS BULK EARTHWORKS STAGE 1 TO 5**

DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 13		
PROJECT No. 22-000082_EWKS	DRAWING No. 1210	REVISION D



**NOTES:**  
 1. FOR NOTES AND LEGEND REFER DRG 22-000082\_EWKS-1210

Received  
 BMD Urban Pty Ltd  
 20/11/2023

FOR CONTINUATION, REFER DRG No. 22-000082-EWKS-1215

JOIN

JOIN

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN
A	03.03.23	ISSUED FOR APPROVAL	IB	AA
B	25.05.23	MINOR AMENDMENTS	HL	AA
C	23.06.23	REVISED AS PER MBRC COMMENTS	HSL	AA
D	17.11.23	ISSUED FOR CONSTRUCTION	AA	AA

**FOR CONSTRUCTION**

DESIGN CHECK: *aa*

APPROVED: *Ryan Ashmore* REF: 19674

FOR & ON BEHALF OF FOREVERLEN PTY LTD

SCALE: 1:2500

1:1500

CLIENT: **FOREVERLEN PTY LTD**

**LENNIUM GROUP**

**egis**

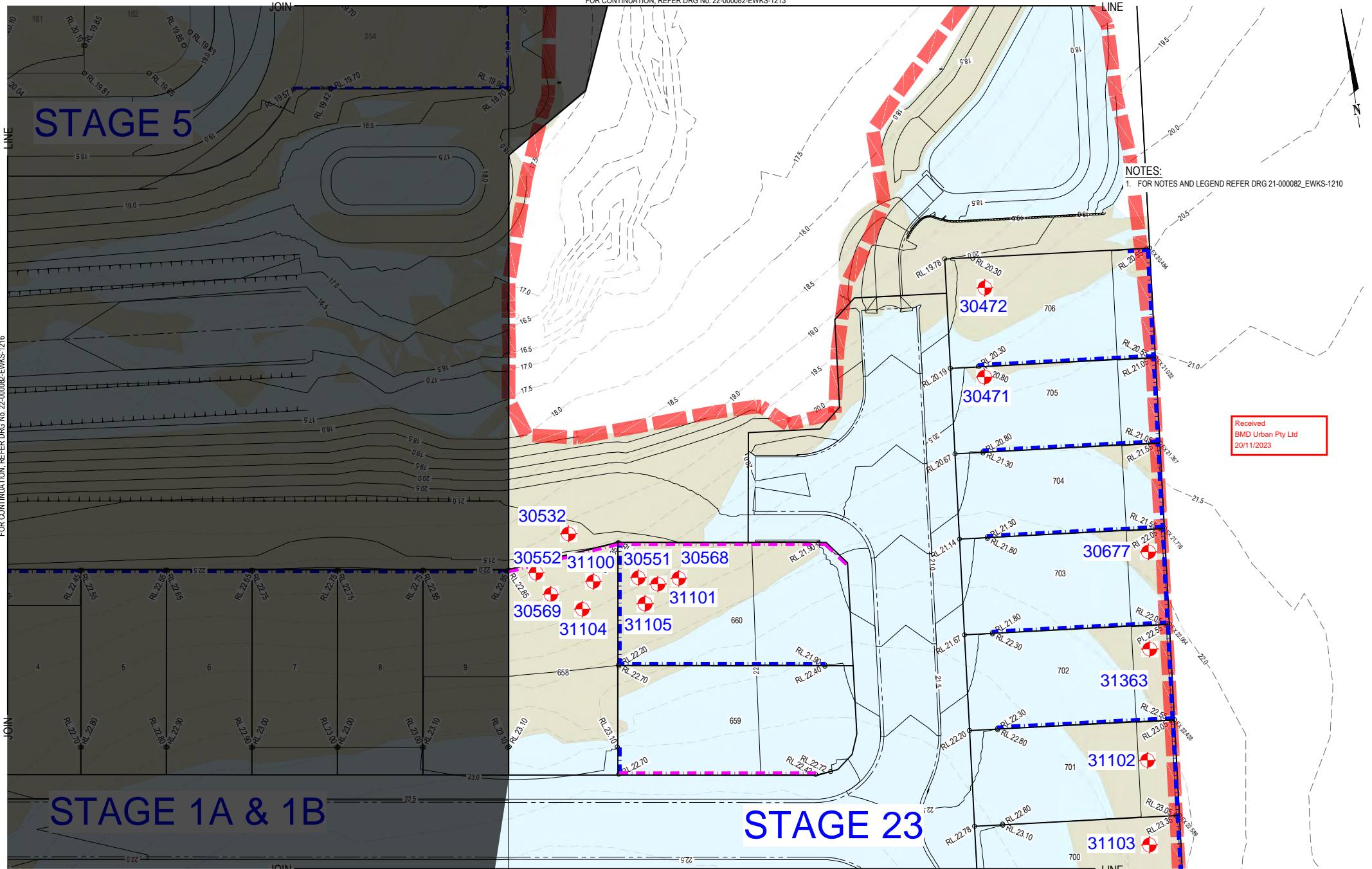
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PROJECT: **BULK EARTHWORKS STAGE 1 TO 5**

DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

DRAWING TITLE: **BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 13**

PROJECT No: **22-000082\_EWKS** DRAWING No: **1211** REVISION: **D**



NOTES:  
1. FOR NOTES AND LEGEND REFER DRG 21-000082\_EWKS-1210

Received  
BMD Urban Pty Ltd  
20/11/2023

FOR CONTINUATION, REFER DRG No. 22-000082-EWKS-1216

JOIN

JOIN

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
A	03.03.23	ISSUED FOR APPROVAL	IB	AA	aa	
B	25.05.23	MINOR AMENDMENTS	IB	AA	aa	
C	23.06.23	REVISED AS PER MBRC COMMENTS	HSL	AA	aa	
D	17.11.23	ISSUED FOR CONSTRUCTION	AA	AA	aa	

**FOR CONSTRUCTION**

APPROVED: *Ryan Ashworth* REF: 19674

FOR & ON BEHALF OF FOREVERLEN PTY LTD

SCALE

1:250 5 0 5 10m A1

1:500 5 0 5 10m A3

CLIENT

**FOREVERLEN PTY LTD**

**LENNIUM GROUP**

**egis**

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PROJECT

**LANDINGS**

**BULK EARTHWORKS STAGE 1 TO 5**

DISCLAIMER  
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

DRAWING TITLE

**BULK EARTHWORKS LAYOUT PLAN SHEET 3 OF 13**

PROJECT No. **22-000082\_EWKS** DRAWING No. **1212** REVISION **D**



## Brisbane Soil Testing

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Geotechnical Testing Services.

Connemar Pty. Ltd.  
ABN 50 065 093 647

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 658**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 658 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 658 (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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Connemar Pty. Ltd.  
ABN 50 065 093 647

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 659**

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 20th of August 2024.

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 659 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 659 (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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Connemar Pty. Ltd.  
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20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 660**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 660 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 660 (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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20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 668**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 668 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 668 (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

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 673**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 673 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 673 (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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Connemar Pty. Ltd.  
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20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 674**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 674 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 674 (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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Connemar Pty. Ltd.  
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20 August 2024

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PO Box 197  
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**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 675**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 675 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 675 (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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Connemar Pty. Ltd.  
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20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 676**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 676 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 676 (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.  
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---

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 677**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 677 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 677 (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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20 August 2024

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WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 678**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 678 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 678 (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

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 679**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 679 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 679 (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

---

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 680**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 680 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 680 (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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20 August 2024

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**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 681**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 681 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 681 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 682**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 682 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 682 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 683**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 683 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 683 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 684**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 684 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 684 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 685**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 685 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 685 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 686**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 686 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 686 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 687**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 687 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 687 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 688**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 688 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 688 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 689**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 689 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 689 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 690**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 690 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 690 (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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20 August 2024

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**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 691**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 691 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 691 (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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20 August 2024

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PO Box 197  
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**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 692**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 692 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 692 (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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20 August 2024

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**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 693**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 693 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 693 (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: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 694**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 694 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 694 (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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20 August 2024

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PO Box 197  
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**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 695**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 695 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 695 (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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20 August 2024

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**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 696**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 696 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 696 (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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20 August 2024

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**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 697**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 697 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 697 (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

20/1191 Anzac Ave

Kallangur, Q. 4503

Phone: (07) 3285 6536

Email: [brissoil@bigpond.net.au](mailto:brissoil@bigpond.net.au)

Geotechnical Testing Services.

Connemar Pty. Ltd.  
ABN 50 065 093 647

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 698**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 698 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 698 (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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Connemar Pty. Ltd.  
ABN 50 065 093 647

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 699**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 699 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 699 (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

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 700**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 700 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 700 (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

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 701**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 701 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 701 (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

20/1191 Anzac Ave

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Phone: (07) 3285 6536

Email: brissoil@bigpond.net.au

Geotechnical Testing Services.

Connemar Pty. Ltd.  
ABN 50 065 093 647

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 702**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 702 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 702 (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

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 703**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 703 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 703 (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

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 704**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 704 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 704 (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

20 August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

**RE: CONTROLLED FILL CERTIFICATE**  
**LOCATION: LILYWOOD LANDINGS – STAGE 23**

**LOT NO. 705**

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 20th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 705 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 705 (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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Kallangur Q 4503  
Ph.(07) 3285 6536

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49474
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	06/02/2024	Tested by	GMG

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30266	6:05	150	LOT 693 LOC ON ATT PLAN R.L. 23.57	30266	-	26.0	25.0	Adj. 1.0 WET	2.01	Adj. 1.96	<b>102.5</b>
Material Description: REDDISH BROWN SILTY CLAY											
30267	6:35	150	LOT 695 LOC ON ATT PLAN R.L. 23.39	30267	-	18.5	17.5	Adj. 1.0 WET	2.08	Adj. 2.08	<b>100.0</b>
Material Description: REDDISH BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS											
30268	7:40	150	LOT 696 LOC ON ATT PLAN R.L. 23.33	30268	-	22.0	22.5	Adj. 0.5 DRY	1.99	Adj. 2.01	<b>99.0</b>
Material Description: RED SILTY CLAY											
30269	9:25	150	LOT 692 LOC ON ATT PLAN R.L. 23.69	30269	-	22.5	21.5	Adj. 1.0 WET	2.10	Adj. 2.03	<b>103.5</b>
Material Description: RED SILTY CLAY											
30270	10:00	150	LOT 694 LOC ON ATT PLAN R.L. 23.74	30270	-	17.5	17.5	Adj. -	2.12	Adj. 2.04	<b>104.0</b>
Material Description: BROWN SILTY CLAY											
30271	10:30	150	LOT 698 LOC ON ATT PLAN R.L. 23.26	30271	-	19.0	18.5	Adj. 0.5 WET	2.06	Adj. 2.08	<b>99.0</b>
Material Description: REDDISH BROWN SILTY SANDY CLAY											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 13/02/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 13/02/2024



# Brisbane Soil Testing

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

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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.	49498
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	27/02/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30428	8:00	150	LOT 688 LOC ON ATT PLAN R.L. 25.51	30428	-	20.5	21.0	Adj. 0.5 DRY	1.98	Adj. 1.97	<b>100.5</b>
Material Description: RED SILTY CLAY & FINE ROCK FRAGMENTS											
30429	9:30	150	LOT 687 LOC ON ATT PLAN R.L. 25.70	30429	-	25.5	26.5	Adj. 1.0 DRY	1.94	Adj. 1.93	<b>100.5</b>
Material Description: LIGHT RED SILTY CLAY											
30430	10:00	150	LOT 689 LOC ON ATT PLAN R.L. 25.20	30430	-	21.5	21.0	Adj. 0.5 WET	2.00	Adj. 1.96	<b>102.0</b>
Material Description: RED MOTTLED YELLOW SILTY CLAY											
30434	11:45	150	LOT 697 LOC ON ATT PLAN R.L. 23.55	30434	-	23.5	23.0	Adj. 0.5 WET	2.03	Adj. 2.02	<b>100.5</b>
Material Description: RED SILTY CLAY											
30435	13:10	150	LOT 692 LOC ON ATT PLAN R.L. 24.41	30435	-	25.5	24.0	Adj. 1.5 WET	1.91	Adj. 1.94	<b>98.5</b>
Material Description: REDDISH BROWN SILTY CLAY											
30436	13:50	150	LOT 695 LOC ON ATT PLAN R.L. 23.88	30436	-	25.0	24.0	Adj. 1.0 WET	1.99	Adj. 1.95	<b>102.0</b>
Material Description: RED SILTY CLAY											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 04/03/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 04/03/2024



# 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.	49499
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	28/02/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30431	7:30	150	LOT 690 LOC ON ATT PLAN R.L. 24.76	30431	-	20.5	19.0	Adj. 1.5 WET	1.97	Adj. 2.02	97.5
Material Description: REDDISH BROWN SILTY CLAY											
30432	10:10	150	LOT 676 LOC ON ATT PLAN R.L. 25.77	30432	-	23.0	22.0	Adj. 1.0 WET	1.97	Adj. 2.02	97.5
Material Description: RED SILTY CLAY & FINE ROCK FRAGMENTS											
30433	12:40	150	LOT 677 LOC ON ATT PLAN R.L. 25.96	30433	-	26.5	25.0	Adj. 1.5 WET	1.95	Adj. 1.99	98.0
Material Description: RED 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: 04/03/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 04/03/2024			
Checked By: G MCGRANN 											



# 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.	49501
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	01/03/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30471	11:15	150	LOT 705 LOC ON ATT PLAN R.L. 20.76	30471	-	25.5	25.0	Adj. 0.5 WET	1.91	Adj. 1.93	<b>99.0</b>
Material Description: RED SILTY CLAY											
30472	14:25	150	LOT 706 LOC ON ATT PLAN R.L. 20.11	30472	-	20.5	19.5	Adj. 1.0 WET	2.00	Adj. 2.00	<b>100.0</b>
Material Description: REDDISH BROWN SILTY CLAY & ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:			Specified Density Ratio 95% STD								
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1				Determined on material finer than 19mm							
Prepared By: G MCGRANN Date: 04/03/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 04/03/2024			
Checked By: G MCGRANN 											



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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.	49549
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	14/03/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30532	10:00	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 20.11	30532	-	26.5	26.0	Adj. 0.5 WET	1.94	Adj. 1.96	<b>99.0</b>
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:			Specified Density Ratio 95% STD		
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1			Determined on material finer than 19mm		
Prepared By: G MCGRANN Date: 19/03/2024		 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 19/03/2024		
Checked By: G MCGRANN 					



# Brisbane Soil Testing

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

Email: brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49566
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	19/03/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30551	11:30	150	LOT 660 LOC ON ATT PLAN R.L. 21.14	30551	-	22.5	21.0	Adj. 1.5 WET	2.02	Adj. 2.05	<b>98.5</b>
Material Description: REDDISH BROWN SILTY CLAY											
30552	12:00	150	LOT 658 LOC ON ATT PLAN R.L. 20.70	30552	-	21.5	20.0	Adj. 1.5 WET	2.04	Adj. 2.06	<b>99.0</b>
Material Description: 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: 25/03/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 25/03/2024





# Brisbane Soil Testing

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

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49567
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	20/03/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30568	7:45	150	LOT 660 LOC ON ATT PLAN R.L. 21.63	30568	-	15.0	13.5	Adj. 1.5 WET	2.13	Adj. 2.16	<b>98.5</b>
				Material Description: REDDISH BROWN SILTY SANDY CLAY & ROCK FRAGMENTS							
30569	8:15	150	LOT 658 LOC ON ATT PLAN R.L. 21.44	30569	-	22.5	21.0	Adj. 1.5 WET	2.06	Adj. 2.05	<b>100.5</b>
				Material Description: REDDISH BROWN & ORANGE 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: 25/03/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 25/03/2024



# Brisbane Soil Testing

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Kallangur Q 4503  
Ph.(07) 3285 6536




Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49610
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	05/04/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30677	11.50	150	LOT 703 LOC ON ATT PLAN R.L. 21.86	30677	-	24.5	24.0	Adj. 0.5 WET	1.88	Adj. 1.95	<b>96.5</b>
								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: 09/04/2024		 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 09/04/2024 		
Checked By: G MCGRANN 					



# Brisbane Soil Testing

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




Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49803
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	16/05/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
31044	10:00	150	LOT 677 LOC ON ATT PLAN R.L. 26.13	31044	-	18.5	17.5	Adj. 1.0 WET	2.08	Adj. 2.14	<b>97.0</b>
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:			Specified Density Ratio 95% STD		
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1			Determined on material finer than 19mm		
Prepared By: G MCGRANN Date: 20/05/2024		 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 20/05/2024 		
Checked By: G MCGRANN 					



# Brisbane Soil Testing

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




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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.	49835
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	22/05/2024	Tested by	GMG

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Half Density Ratio %
31072	13:45	150	LOT 683 LOC ON ATT PLAN R.L. 26.27	31072	-	19.5	18.5	Adj. 1.0 WET	2.05	Adj. 2.02	<b>101.5</b>
				Material Description: REDDISH BROWN SILTY CLAY							
31073	14:20	150	LOT 682 LOC ON ATT PLAN R.L. 26.20	31073	-	19.0	19.5	Adj. 0.5 DRY	2.02	Adj. 2.01	<b>100.5</b>
				Material Description: 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: 03/06/2024		 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 03/06/2024		
Checked By: G MCGRANN 					



# Brisbane Soil Testing

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

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49837
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	23/05/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
31078	9:10	150	LOT 678 LOC ON ATT PLAN R.L. 26.11	31078	-	20.5	21.0	Adj. 0.5 DRY	1.99	Adj. 2.03	<b>98.0</b>
Material Description: REDDISH BROWN SILTY CLAY											
31079	10:00	150	LOT 691 LOC ON ATT PLAN R.L. 24.83	31079	-	19.5	19.5	Adj. -	2.02	Adj. 2.06	<b>98.0</b>
Material Description: REDDISH BROWN SILTY CLAY											
31080	10:30	150	LOT 699 LOC ON ATT PLAN R.L. 23.40	31080	-	16.5	17.0	Adj. 0.5 DRY	2.05	Adj. 2.10	<b>97.5</b>
Material Description: REDDISH BROWN SILTY SANDY CLAY											
31081	12:40	150	LOT 681 LOC ON ATT PLAN R.L. 26.12	31081	-	15.0	16.0	Adj. 1.0 DRY	2.10	Adj. 2.08	<b>101.0</b>
Material Description: BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
31082	15:10	150	LOT 684 LOC ON ATT PLAN R.L. 26.46	31082	-	20.5	21.5	Adj. 1.0 DRY	2.01	Adj. 2.00	<b>100.5</b>
Material Description: REDDISH 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: 03/06/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 03/06/2024



# Brisbane Soil Testing

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

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49838
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	27/05/2024	Tested by	JM GMG

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
31100	8:30	150	LOT 658 LOC ON ATT PLAN R.L. 21.34	31100	-	24.5	25.0	Adj. 0.5 DRY	1.96	Adj. 1.94	<b>101.0</b>
Material Description: RED SILTY CLAY											
31101	8:30	150	LOT 660 LOC ON ATT PLAN R.L. 21.61	31101	-	18.0	17.0	Adj. 1.0 WET	2.05	Adj. 2.08	<b>98.5</b>
Material Description: REDDISH BROWN SILTY SANDY CLAY											
31102	10:00	150	LOT 701 LOC ON ATT PLAN R.L. 22.79	31102	-	18.5	18.0	Adj. 0.5 WET	2.02	Adj. 2.07	<b>97.5</b>
Material Description: REDDISH BROWN SILTY CLAY & ROCK FRAGMENTS											
31103	10:15	150	LOT 700 LOC ON ATT PLAN R.L. 23.10	31103	-	20.5	21.5	Adj. 1.0 DRY	1.99	Adj. 2.04	<b>97.5</b>
Material Description: REDDISH BROWN SILTY CLAY											
31104	13:45	150	LOT 658 LOC ON ATT PLAN R.L. 22.06	31104	-	18.0	16.5	Adj. 1.5 WET	2.03	Adj. 2.08	<b>97.5</b>
Material Description: REDDISH BROWN SILTY CLAY											
31105	14:20	150	LOT 660 LOC ON ATT PLAN R.L. 22.01	31105	-	19.0	18.0	Adj. 1.0 WET	2.05	Adj. 2.06	<b>99.5</b>
Material Description: REDDISH BROWN SILTY CLAY											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 03/06/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 03/06/2024



# Brisbane Soil Testing

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

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49939
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	12/06/2024	Tested by	JM LM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
31358	7:40	150	LOT 673 LOC ON ATT PLAN R.L. 24.70	31358	-	18.5	19.0	Adj. 0.5 DRY	2.05	Adj. 2.04	<b>100.5</b>
Material Description: REDDISH BROWN & ORANGE SILTY CLAY											
31359	7:55	150	LOT 685 LOC ON ATT PLAN R.L. 26.81	31359	-	17.5	19.0	Adj. 1.5 DRY	1.97	Adj. 2.05	<b>96.0</b>
Material Description: REDDISH BROWN SILTY CLAY											
31360	8:30	150	LOT 686 LOC ON ATT PLAN R.L. 23.40	31360	-	15.5	18.0	Adj. 2.5 DRY	1.97	Adj. 2.06	<b>95.5</b>
Material Description: REDDISH BROWN SILTY CLAY											
31361	8:40	150	LOT 675 LOC ON ATT PLAN R.L. 25.16	31361	-	16.0	15.5	Adj. 0.5 WET	2.11	Adj. 2.13	<b>99.0</b>
Material Description: REDDISH BROWN SILTY SANDY CLAY											
31362	9:25	150	LOT 674 LOC ON ATT PLAN R.L. 24.89	31362	-	15.0	15.0	Adj. -	2.14	Adj. 2.11	<b>101.5</b>
Material Description: ORANGE BROWN SILTY SANDY CLAY											
31363	9:40	150	LOT 702 LOC ON ATT PLAN R.L. 22.39	31363	-	19.5	18.0	Adj. 1.5 WET	1.98	Adj. 2.03	<b>97.5</b>
Material Description: REDDISH BROWN SILTY CLAY											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 22/06/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 22/06/2024



# Brisbane Soil Testing

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




Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	50219
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	19/08/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
32183	10:40	130	LOT 668 LOC ON ATT PLAN R.L. 24.44	32183	-	15.5	15.0	Adj. 0.5 WET	2.03	Adj. 2.11	<b>96.0</b>
								Adj.		Adj.	
Material Description: RED SILTY SANDY CLAY & FINE ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:			Specified Density Ratio 95% STD								
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1				Determined on material finer than 19mm							
Prepared By: G MCGRANN Date: 20/08/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 20/08/2024			
Checked By: G MCGRANN 											





## **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. 202404

14<sup>th</sup> of August 2024

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

Attn Alex Wood

**RE: LILYWOOD LANDINGS – STAGES 1A & 1B & STAGE 23,  
UPPER CABOOLTURE ROAD, UPPER CABOOLTURE QLD 4510**  
(Existing Water Wells – Allotment & Road Fill Geotechnical Inspection & Testing)

### **SCOPE**

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

Well number 1 Lot 664 Stage 23 and well number 2 o/s 4.0m R CH118 Road 03 Stage 1A & 1B.

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) Decommission both wells and remove unsuitable materials
- (iii) Replace with self-compacting 10mm aggregate to minimum 2.0m below design finished level and cover with geogrid.
- (iv) Inspect and carry out compaction control testing of placed fill materials
- (v) Provide RPEQ Certification

### **CONTROL INSPECTION AND TESTING**

An inspection of the areas to be filled was carried out on 21 and 22 March 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 0.20 m loose horizontal layers and compacted with an excavator and pin wheel at well number 1 and an 815 compactor at well number 2.

Eight field density tests were carried between 21 March 2024 and 19 July 2024. These tests recorded Dry Density Ratios between 98.0% and 102.5% relative to the standard compaction test and field moisture contents within +0.5% and +1.0% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Report Nos. 49598, 49600, 49599, 49602, 49688 & 50099 provide full test data for the compaction control tests.

## CONCLUSION

Based on the test results and site inspections, we conclude that the fill foundation is considered to comply with requirements of Table 5.1- Item 1 & 3 of AS3798-2007 and the project specifications.

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



GREG McGRANN  
MANAGING DIRECTOR  
**BRISBANE SOIL TESTING**



SAM JEYAN  
GEOTECHNICAL ENGINEER  
**BRISBANE SOIL TESTING**  
RPEQ. No. 13339 GEOTECHNICAL

### **Attachments:**

Test Location Plans

Site Photos

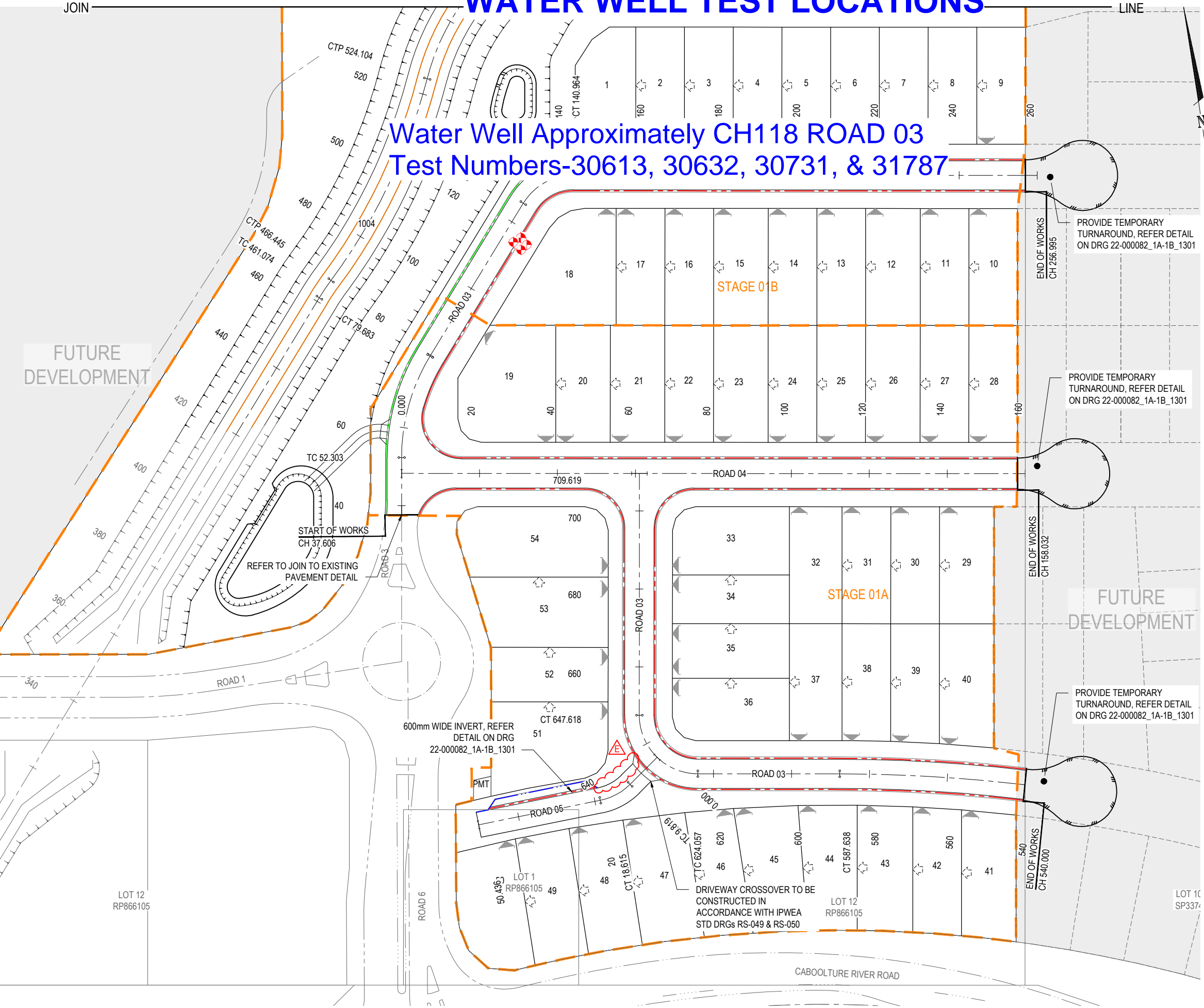
Field Density Test Reports



**Brisbane Soil Testing**

20/1191 Anzac Ave  
Kallangur, Q. 4503

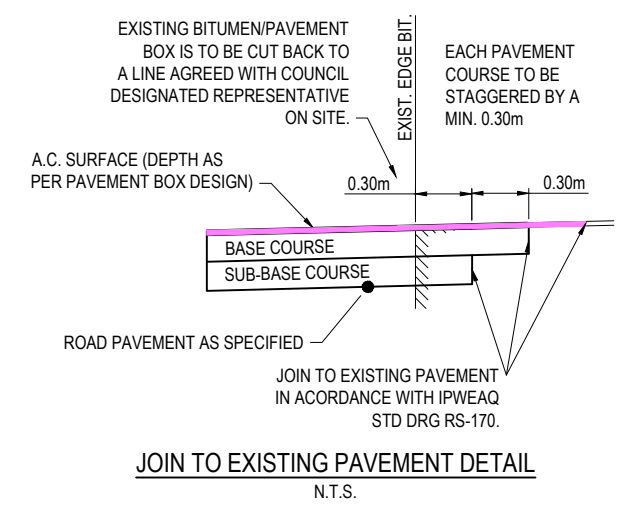
# WATER WELL TEST LOCATIONS



Water Well Approximately CH118 ROAD 03  
Test Numbers-30613, 30632, 30731, & 31787

LEGEND	
	STAGE BOUNDARY
	CONTROL LINE
	MOUNTABLE KERB & CHANNEL TYPE 'M3'
	BARRIER KERB & CHANNEL TYPE 'B1'
	BARRIER KERB ONLY TYPE 'B2'
	INDICATIVE DRIVEWAY LOCATIONS
	BUILD TO BOUNDARY
	600mm WIDE INVERT

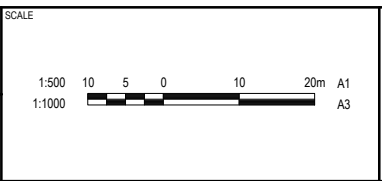
**NOTE:**  
REFER TO DRAWING 22-000082\_1A-1B\_1301 FOR KERB DETAILS AND CONTROL LINE SETOUT TABLES



REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
A	14.12.22	ISSUED FOR APPROVAL	IB	AA		
B	01.03.23	AMENDED COUNCIL COMMENTS	IB	AA	aa	
C	24.05.23	MINOR AMENDMENTS	IB	AA		
D	06.10.23	REVISED AS PER COUNCIL RFI	RT	AA		
E	16.11.23	ISSUED FOR CONSTRUCTION	AA	AA	aa	

**ISSUED FOR CONSTRUCTION**

APPROVED  
**RYAN ASHWORTH** RPEQ 19674  
*Ryan Ashworth*  
FOR & ON BEHALF OF CALIBRE PROFESSIONAL SERVICES PTY LTD



CLIENT

**FOREVERLEN PTY LTD**

**LENNIUM GROUP**



PROJECT

**Lilywood LANDINGS**

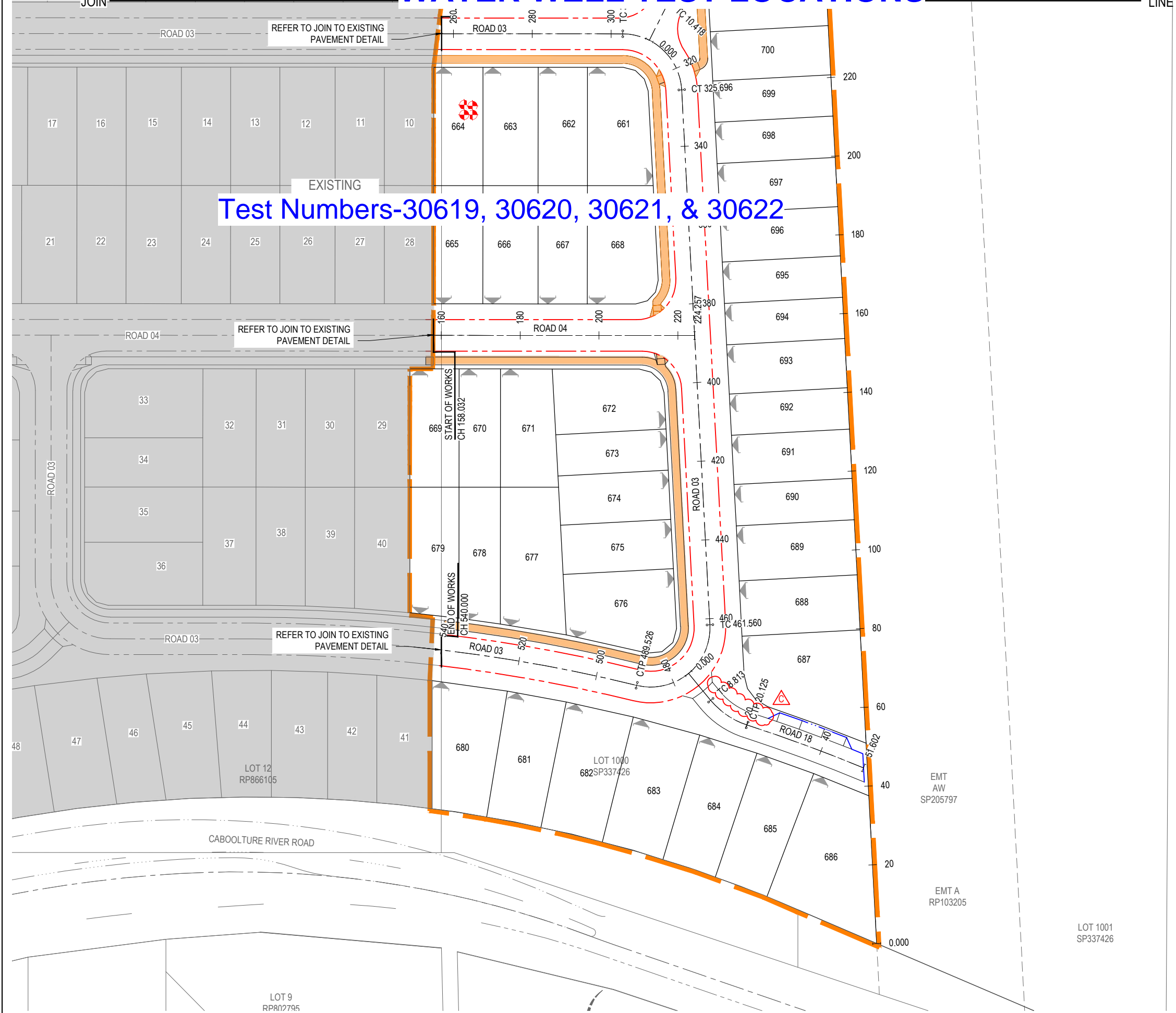
**STAGES 1A & 1B**

DISCLAIMER  
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

DRAWING TITLE		
<b>CONTROL LINE SETOUT PLAN SHEET 1 OF 2</b>		
PROJECT No.	DRAWING No.	REVISION
22-000082_1A-1B	1300	E

Received  
BMD Urban Pty Ltd  
20/11/2023

# WATER WELL TEST LOCATIONS

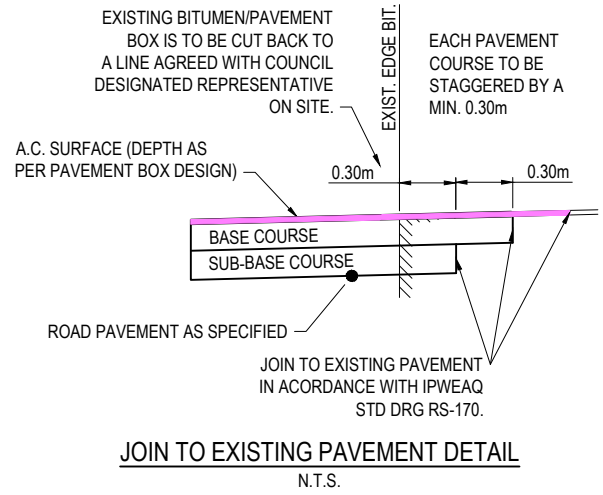


**Test Numbers-30619, 30620, 30621, & 30622**

**LEGEND**

- STAGE BOUNDARY
- CONTROL LINE
- MOUNTABLE KERB & CHANNEL TYPE 'M3'
- BARRIER KERB & CHANNEL TYPE 'B1'
- BARRIER KERB ONLY TYPE 'B2'
- INDICATIVE DRIVEWAY LOCATIONS
- BUILD TO BOUNDARY
- CONCRETE FOOTPATH (2m WIDE)

**NOTE:**  
REFER TO DRAWING 22-000082\_23\_1302 FOR KERB DETAILS AND CONTROL LINE SETOUT TABLES

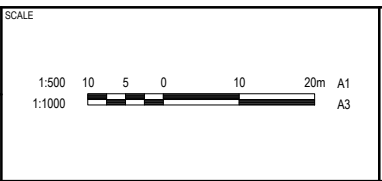


Received  
BMD Urban Pty Ltd  
28/11/2023

REVISION	DATE	ISSUE DETAILS	DRAWN	DESIGN	DRAWN CHECK	STATUS
A	07.06.23	ISSUED FOR APPROVAL	IB	AA		
B	12.10.23	UPDATED TO EGIS	AA	AA	MT	
C	16.11.23	ISSUED FOR CONSTRUCTION	AA	AA		

**FOR CONSTRUCTION**

APPROVED  
RYAN ASHWORTH RPEQ 19674  
*Ryan Ashworth*  
FOR & ON BEHALF OF CALIBRE PROFESSIONAL SERVICES PTY LTD



CLIENT

**FOREVERLEN PTY LTD**

**LENNIUM GROUP**

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www.egis-group.com

PROJECT

**LANDINGS**

**STAGE 23**

DISCLAIMER  
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

DRAWING TITLE		
CONTROL LINE SETOUT PLAN SHEET 1 OF 2		
PROJECT No.	DRAWING No.	REVISION
22-000082_23	1300	C



Well Number 2



Well Number 2



Well Number 2



Well Number 2

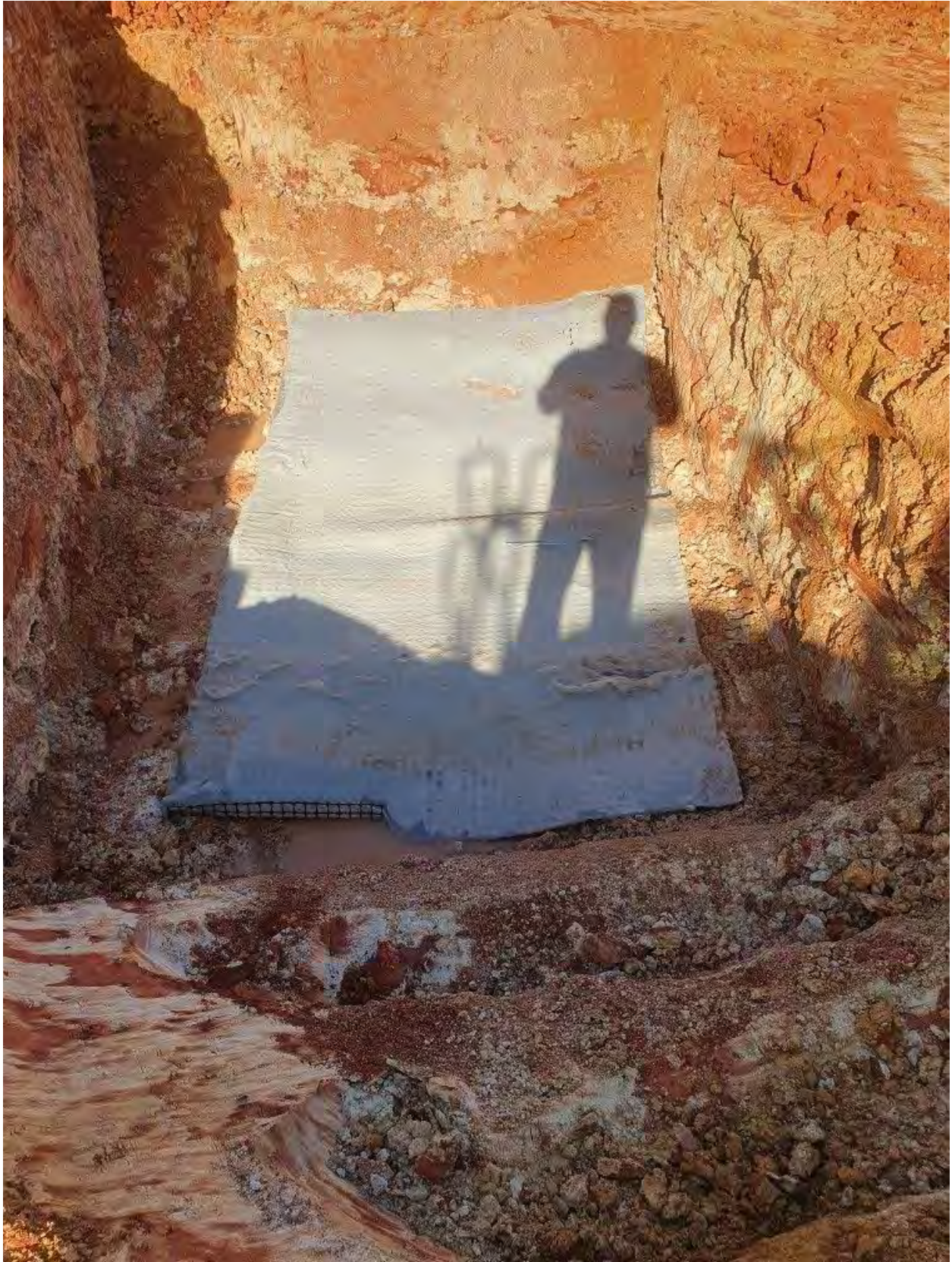




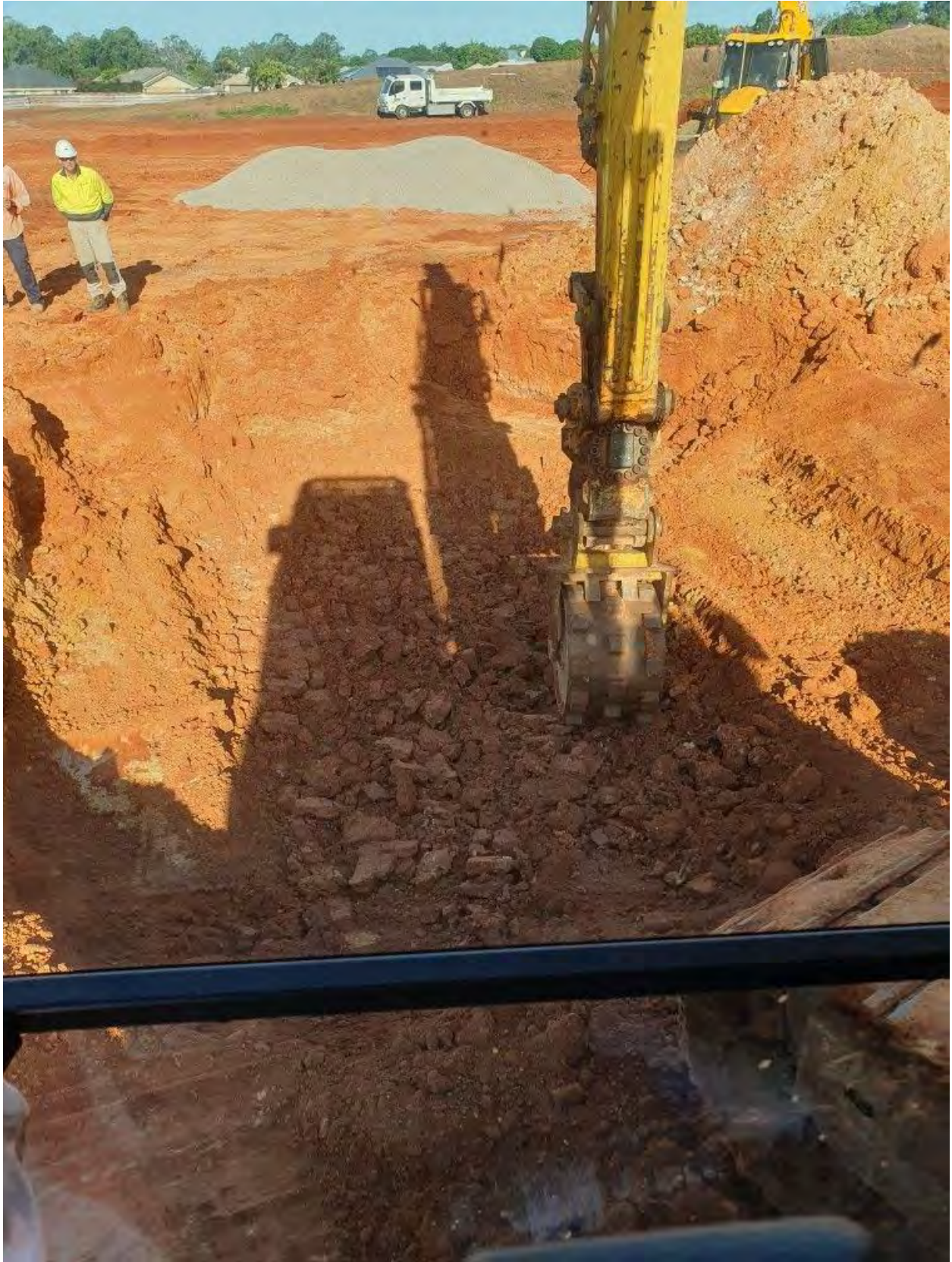
Well Number 1



Well Number 1



Well Number 1



Well Number 1



# Brisbane Soil Testing

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

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ALLOTMENT FILL(WELL)	Report No.	49598
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	21/03/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30619	15:05	150	LOT 664 LOC ON ATT PLAN 1.62m below F.L.	30619	-	24.0	23.5	Adj. 0.5 WET	1.94	Adj. 1.95	<b>99.5</b>
Material Description: LIGHT BROWN SILTY CLAY											
30620	16:00	150	LOT 664 LOC ON ATT PLAN 1.09m below F.L.	30620	-	23.0	22.0	Adj. 1.0 WET	1.98	Adj. 1.96	<b>101.0</b>
Material Description: LIGHT BROWN SILTY CLAY											
30621	16:45	150	LOT 664 LOC ON ATT PLAN 0.55m below F.L.	30621	-	19.0	18.5	Adj. 0.5 WET	2.06	Adj. 2.09	<b>98.5</b>
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 02/04/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 02/04/2024



# Brisbane Soil Testing

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

Email. brissoil@bigpond.net.au

## FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	ROAD FILL(WELL)	Report No.	49600
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	22/03/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30613	14:15	150	ROAD 03 o/s 4.0m R CH118 1.85m below P.L.	30613	-	17.5	17.0	Adj. 0.5 WET	2.12	Adj. 2.09	<b>101.5</b>
								Adj.		Adj.	
Material Description: REDDISH BROWN SILTY SANDY CLAY & FINE ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 02/04/2024



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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager  
Approved Signatory  
Date: 02/04/2024



# Brisbane Soil Testing

20/1191 Anzac Ave  
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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(WELL)	Report No.	49599
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 23	Date Tested	22/03/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30622	7:45	150	LOT 664 LOC ON ATT PLAN 0.1m below F.L.	30622	-	24.0	23.0	Adj. 1.0 WET	1.94	Adj. 1.96	<b>99.0</b>
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:			Specified Density Ratio 95% STD		
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1			Determined on material finer than 19mm		
Prepared By: G MCGRANN Date: 02/04/2024		 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 02/04/2024		
Checked By: G MCGRANN 					



# 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	ROAD FILL(WELL)	Report No.	49602
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	02/04/2024	Tested by	GMG

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30632	7:20	150	ROAD 03 o/s 4.0m R CH118 1.43m below P.L.	30632	-	22.0	21.0	Adj. 1.0 WET	1.99	Adj. 2.03	<b>98.0</b>
								Adj.		Adj.	
Material Description: RED SILTY CLAY & FINE ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:			Specified Density Ratio 95% STD								
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1				Determined on material finer than 19mm							
Prepared By: G MCGRANN Date: 08/04/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 08/04/2024			
Checked By: G MCGRANN 											





# 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	ROAD FILL(WELL)	Report No.	49688
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	11/04/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
30731	14:25	150	ROAD 03 o/s 4.0m R CH118 1.05m below P.L.	30731	-	17.5	17.0	Adj. 0.5 WET	2.09	Adj. 2.09	<b>100.0</b>
								Adj.		Adj.	
Material Description: LIGHT BROWN SILTY SANDY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:			Specified Density Ratio 95% STD								
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1				Determined on material finer than 19mm							
Prepared By: G MCGRANN Date: 23/04/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 23/04/2024			
Checked By: G MCGRANN 											



# 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	ROAD FILL(WELL)	Report No.	50099
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	19/07/2024	Tested by	JM

Field Test N <sup>o</sup> Sample N <sup>o</sup>	Time of Test	Depth of Test mm	Test Location	Lab Compaction N <sup>o</sup>	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m <sup>3</sup>	Peak Converted Wet Density t/m <sup>3</sup>	Hilf Density Ratio %
31787	9:20	150	ROAD 03 o/s 4.0m R CH118 SUBGRADE	31787	-	16.5	16.0	Adj. 0.5 WET	2.13	Adj. 2.08	<b>102.5</b>
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:			Specified Density Ratio 100% STD		
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1			Determined on material finer than 19mm		
Prepared By: G MCGRANN Date: 26/07/2024		 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 26/07/2024 		
Checked By: G MCGRANN 