



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

26th of August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

Attn Alex Wood

**RE: LILYWOOD LANDINGS – STAGE 1A & 1B
CABOOLTURE RIVER ROAD – UPPER CABOOLTURE
(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, road fill, southern swale fill, and swale batter fill (well) 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 1st of March 2024 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff.

On-site 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 Road 03 CH118 was decommissioned, then supervised and tested via a level 1 inspection and testing commission. (Level 1 report attached).

Sixty-eight field density tests were carried between the 4th of March 2024 and the 31st of July 2024. These tests recorded Dry Density Ratios between 95.5% and 103.5% relative to the standard compaction test and field moisture contents within -2.5% and +3.5% of their respective optimum moisture contents, AS1289.5.1.1.

Attached documents B194/4 (Report Nos. 49502, 49547, 49548, 49558, 49559, 49568, 49569, 49570, 49582, 49603, 49604, 49684, 49687, 49690, 49693, 49764, 49765, 49768, 49841, 49940, 49941, 49964 & 50161) provide full test data for the compaction control tests.

The locations of all tests taken are shown on the attached drawing numbers 1211, 1212, 1214, 1215 and 1216 Revision D, titled "Stage 1A & 1B Bulk Earthworks Test Locations".

No fill was placed on lots 10-14 and 23-52 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

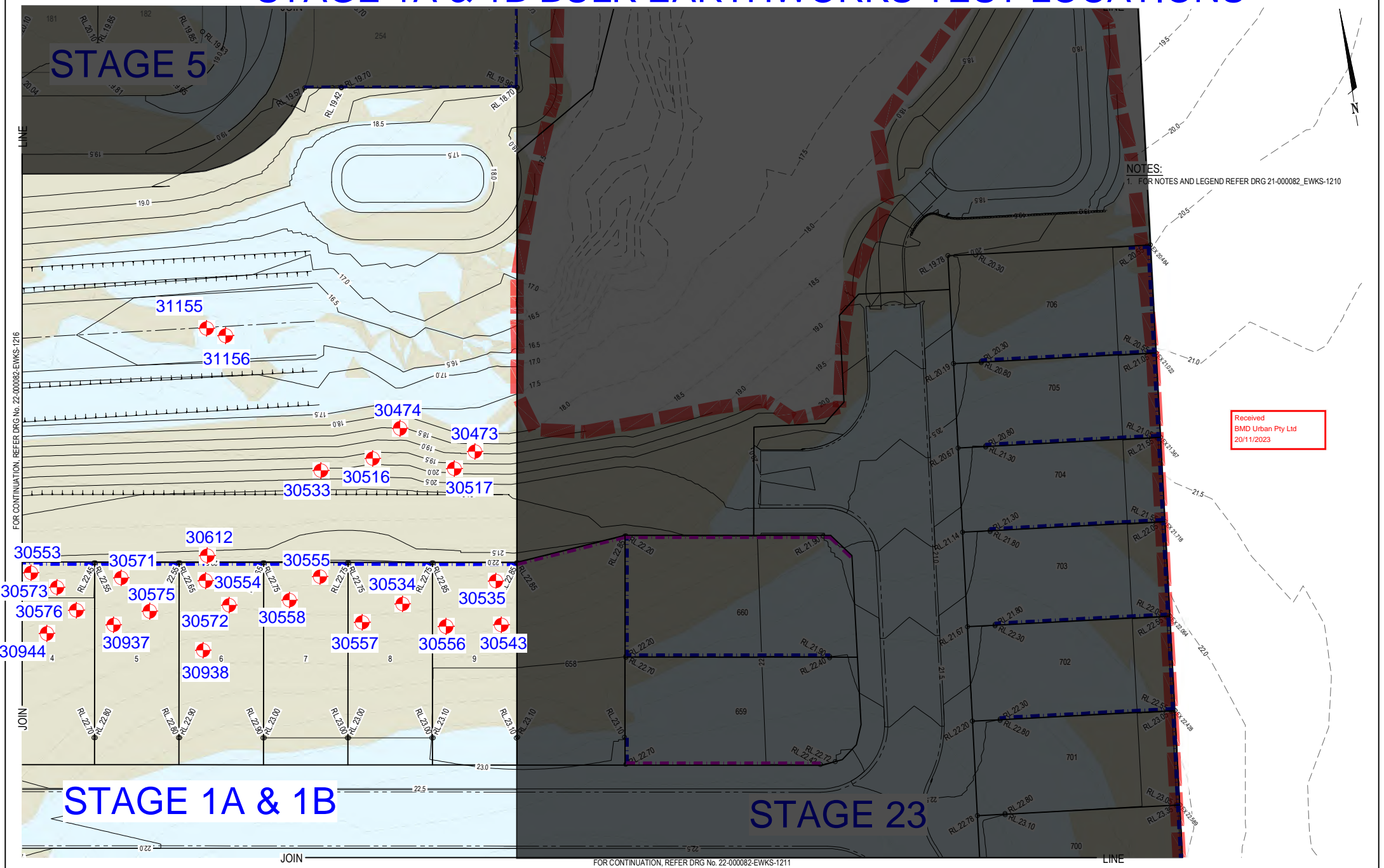
Level 1 Report (Existing Water Wells) – Stages 1A & 1B & 23 Dated 14/08/2024



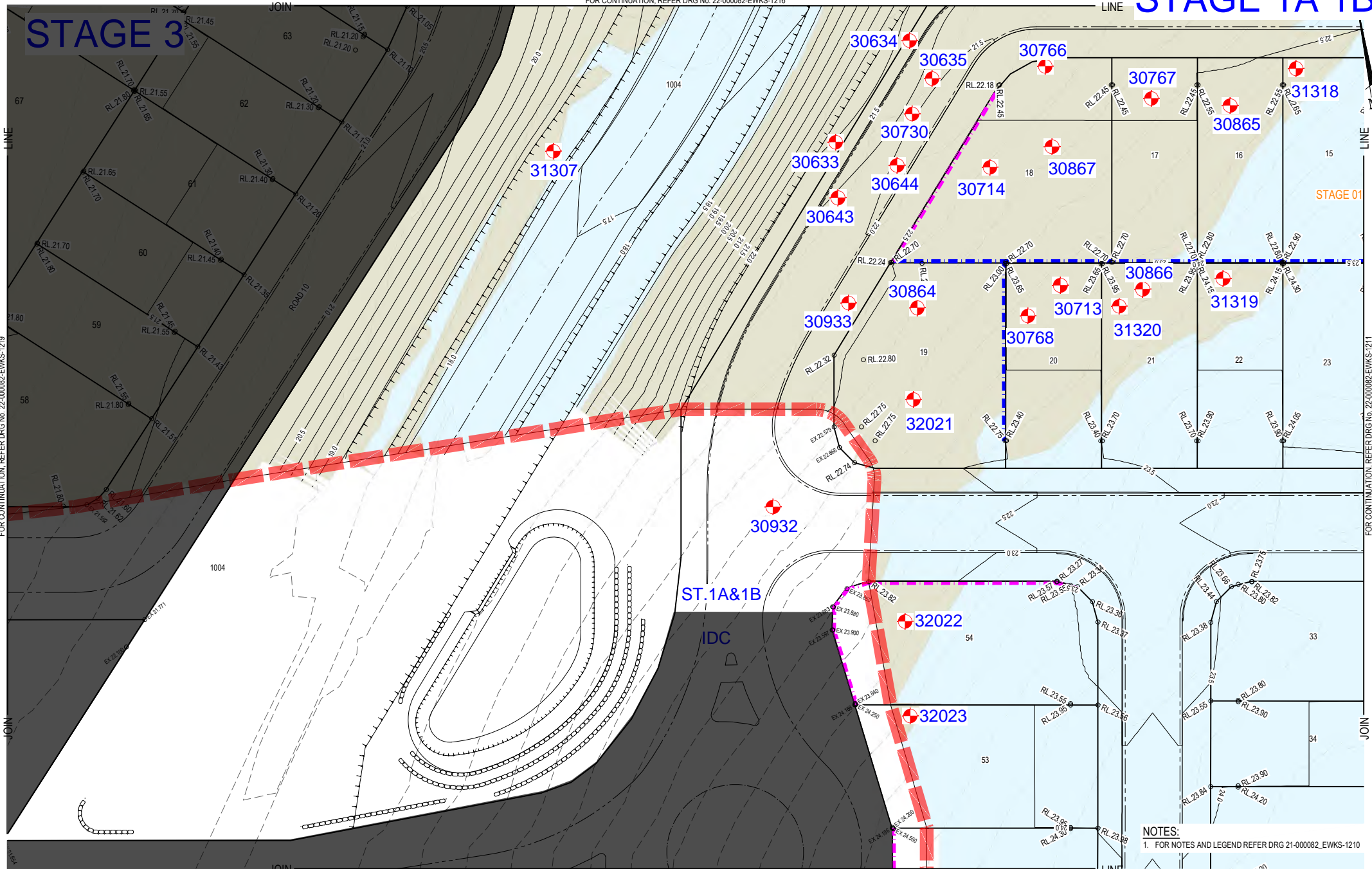
Brisbane Soil Testing

20/1191 Anzac Ave
Kallangur, Q. 4503

STAGE 1A & 1B BULK EARTHWORKS TEST LOCATIONS



REVISION A 03.03.23 ISSUED FOR APPROVAL B 25.05.23 MINOR AMENDMENTS C 23.06.23 REVISED AS PER MIBC COMMENTS D 17.11.23 ISSUED FOR CONSTRUCTION		DESIGN IB AA IB AA HSL AA AA AA		DRAWN/CHECK aa aa		STATUS FOR CONSTRUCTION APPROVED BY: RYAN ASHWORTH RPEQ 19674 FOR & ON BEHALF OF: EGIS CONSULTING (QLD) PTY LTD RYAN ASHWORTH		SCALE 1:250 1:500 0 5 10m A1 0 5 10m A3		CLIENT FOREVERLEN PTY LTD LENNIUM GROUP		PROJECT LANDINGS BULK EARTHWORKS STAGE 1 TO 5 © 2023 Egis Consulting Pty Ltd www.egis-group.com		DRAWING TITLE BULK EARTHWORKS LAYOUT PLAN SHEET 3 OF 13 PROJECT No. 22-000082_EWKS DRAWING No. 1212 REVISION D	
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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	

Received
BMD Urban Pty Ltd
20/11/2023

FOR CONSTRUCTION

APPROVED
RYAN ASHWORTH RPEQ 19674
Ryan Ashworth
FOR & ON BEHALF OF EGIS CONSULTING (QLD) PTY LTD

SCALE

1:250 5 0 5 10m A1
1:500

CLIENT

FOREVERLEN PTY LTD

LENNIUM GROUP

egis

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PROJECT

LANDINGS
BULK EARTHWORKS
STAGE 1 TO 5

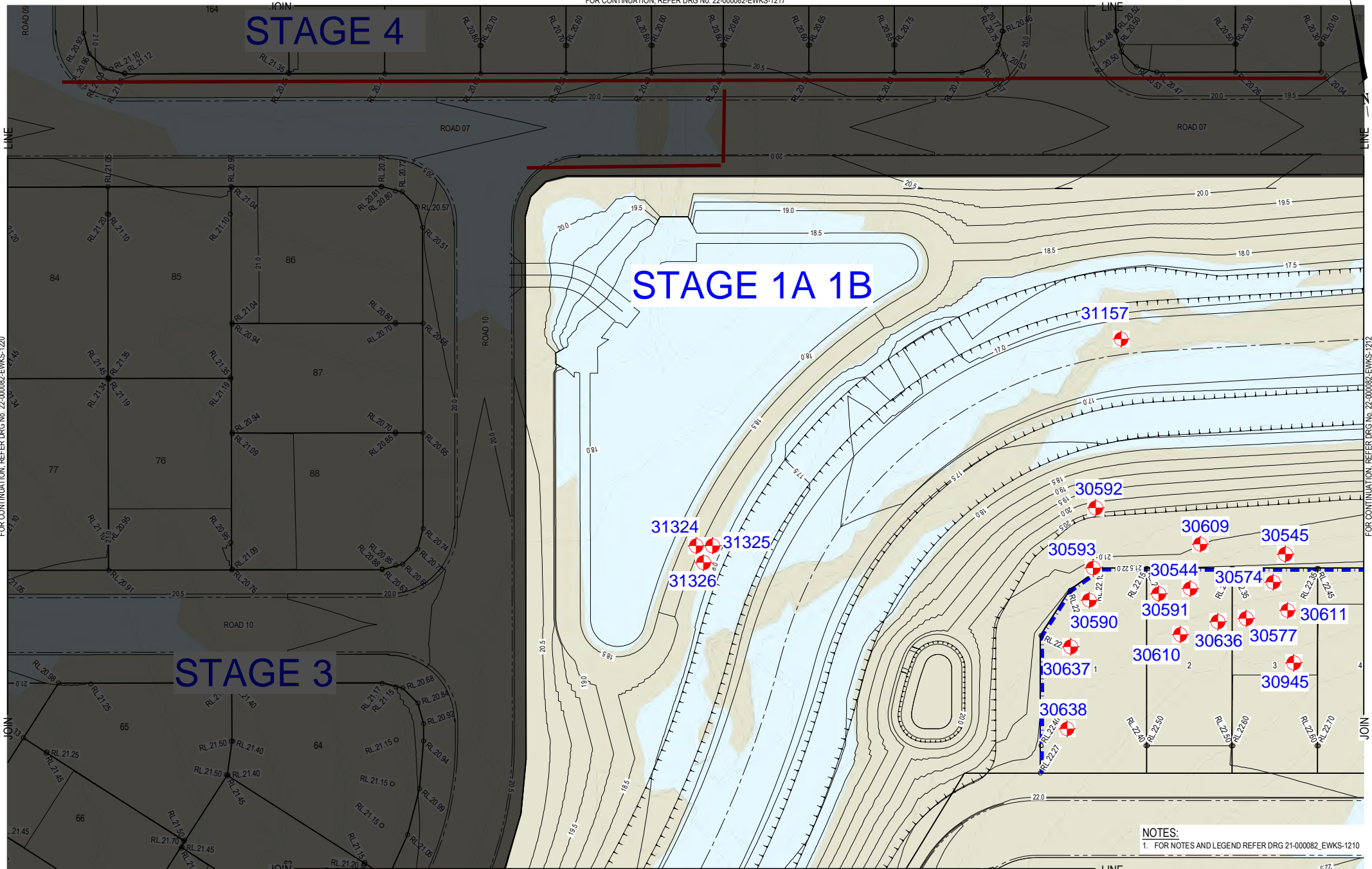
DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE.

DRAWING TITLE

BULK EARTHWORKS LAYOUT PLAN SHEET 6 OF 13

PROJECT No. 22-000082_EWKS DRAWING No. 1215 REVISION D

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



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

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

Received
BMD Urban Pty Ltd
20/11/2023

DRWNN	DESIGN	DESIGN CHECK	STATUS
aa	aa	aa	aa
aa	aa	aa	aa

DESIGN CHECK: RYAN ASHWORTH RPEQ 19674
FOR & ON BEHALF OF EGIS CONSULTING (QLD) PTY LTD

FOR CONSTRUCTION

SCALE: 1:250 (A1), 1:500 (A3)

CLIENT: FOREVERLEN PTY LTD

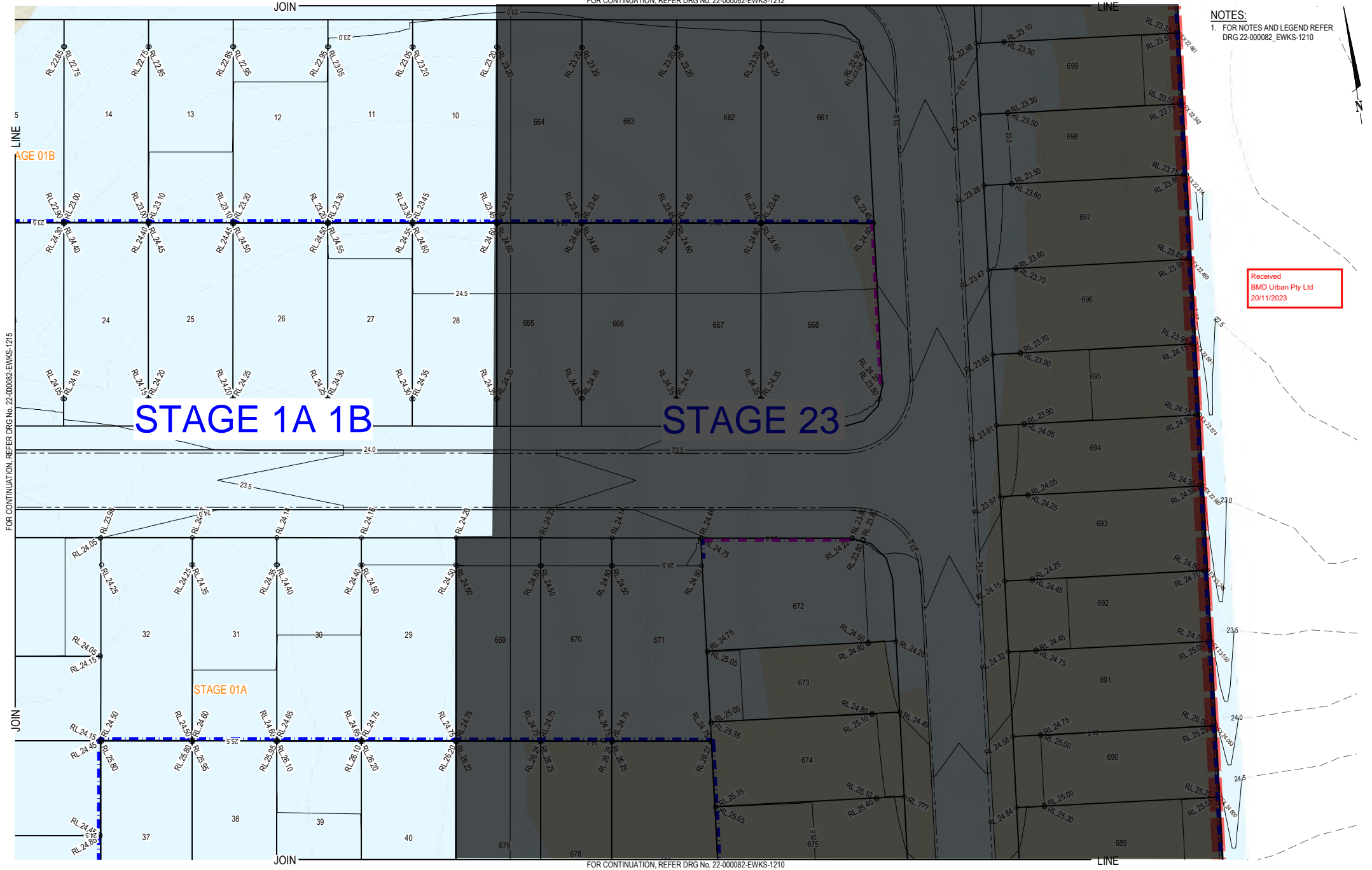
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PROJECT: **LANDINGS**
BULK EARTHWORKS
STAGE 1 TO 5

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DRAWING TITLE: BULK EARTHWORKS LAYOUT PLAN SHEET 7 OF 13

PROJECT No: 22-000082_EWKS | DRAWING No: 1216 | REVISION: D



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

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 20/11/2023

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

JOIN

LINE

AGE 01B

STAGE 1A 1B

STAGE 23

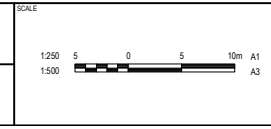
STAGE 01A

FOR CONTINUATION, REFER DRG No. 22-000082-EWKS-1210

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 MIBC COMMENTS	HSL	AA	aa	
D	17.11.23	ISSUED FOR CONSTRUCTION	AA	AA	aa	

FOR CONSTRUCTION

DESIGN CHECK: **RYAN ASHWORTH** RPEQ 19674
 FOR & ON BEHALF OF EGIS CONSULTING (QLD) PTY LTD
Ryan Ashworth



CLIENT: **FOREVERLEN PTY LTD**

LENNIUM GROUP

egis

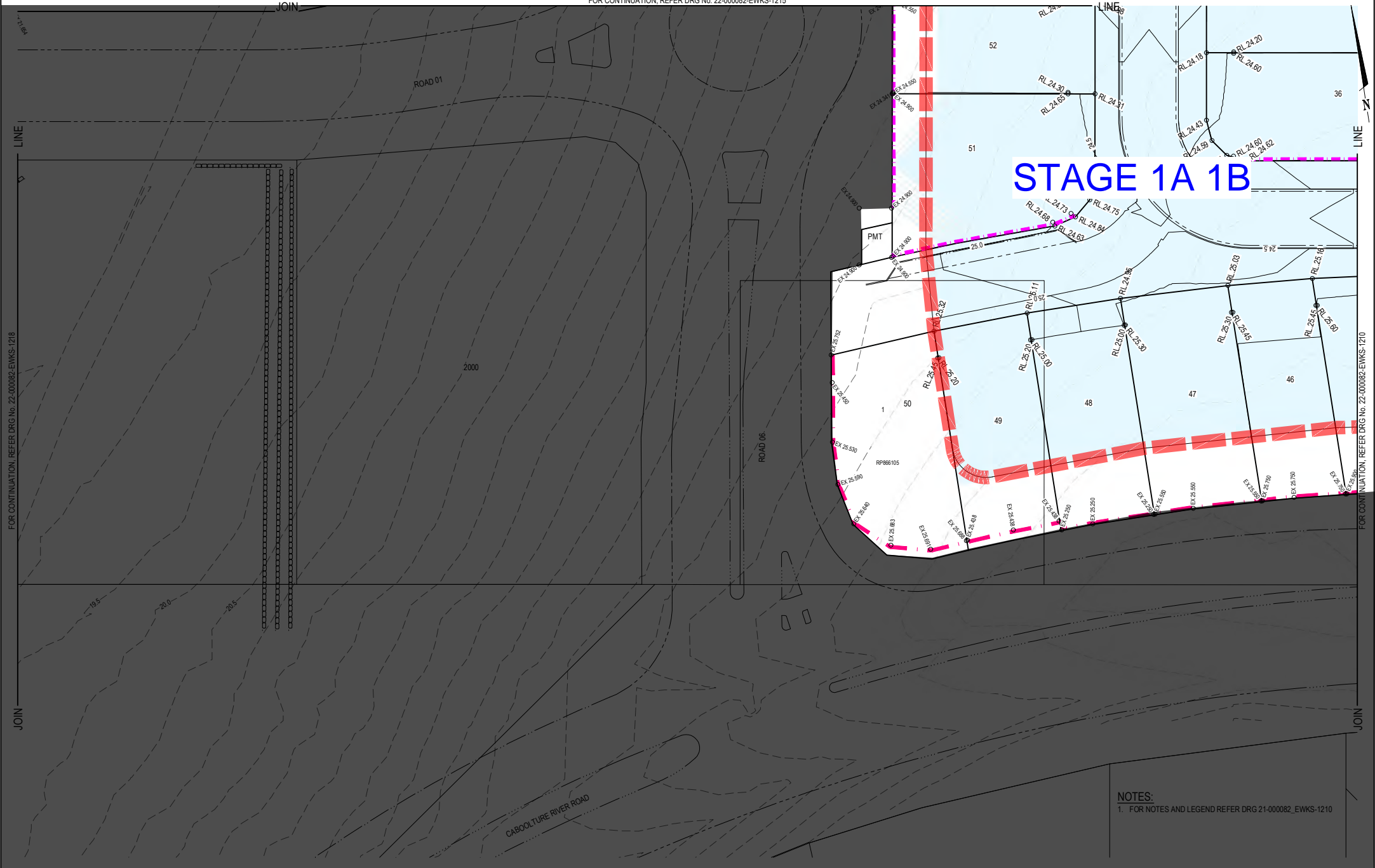
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PROJECT: **Wynwood LANDINGS**
BULK EARTHWORKS
STAGE 1 TO 5

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

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



STAGE 1A 1B

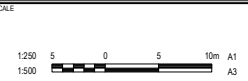
NOTES:
 1. FOR NOTES AND LEGEND REFER DRG 21-000082_EWKS-1210

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

Received
 BMD Urban Pty Ltd
 20/11/2023

FOR CONSTRUCTION

DESIGN CHECK: *aa*
 APPROVED: RYAN ASHWORTH RPEQ 19674
 FOR & ON BEHALF OF EGIS CONSULTING (QLD) PTY LTD
Ryan Ashworth



CLIENT: **FOREVERLEN PTY LTD**

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PROJECT: **Wynwood 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 5 OF 13**

PROJECT No: **22-000082_EWKS** DRAWING No: **1214** REVISION: **D**



Brisbane Soil Testing

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Geotechnical Testing Services.

Connemar Pty. Ltd.
ABN 50 065 093 647

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 1

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 1 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 1 (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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RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 2

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 2 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 2 (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 1A & 1B

LOT NO. 3

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 3 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 3 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



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PO Box 197
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RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 4

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 4 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 4 (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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17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 5

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 5 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 5 (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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17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 6

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 6 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 6 (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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17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 7

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 7 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 7 (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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ABN 50 065 093 647

17 August 2024

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PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 8

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 8 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 8 (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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ABN 50 065 093 647

17 August 2024

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WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 9

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 9 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 9 (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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17 August 2024

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WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 15

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 15 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 15 (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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17 August 2024

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WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 16

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 16 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 16 (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

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 17

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 17 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 17 (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

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 18

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 18 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 18 (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

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 19

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 19 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 19 (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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Connemar Pty. Ltd.
ABN 50 065 093 647

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 20

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 18th of August 2024

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

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 21

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 21 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 21 (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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Connemar Pty. Ltd.

ABN 50 065 093 647

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 22

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 22 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 22 (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

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 53

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 53 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 53 (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

17 August 2024

BMD Urban Pty Ltd
PO Box 197
WYNNUM CENTRAL QLD 4178

RE: CONTROLLED FILL CERTIFICATE
LOCATION: LILYWOOD LANDINGS – STAGE 1A & 1B

LOT NO. 54

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 18th of August 2024

Based on the test results and site inspections, Brisbane Soil Testing concludes that all fill on Lot 54 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 54 (excluding topsoil placed subsequent to completion of controlled filling) can be termed "Controlled Fill" in accordance with AS2870-2011 "Residential Slabs and Footings" (Clause 6.4.2 (a)) via a Level 1 inspection and testing commission.

Regards,

Greg McGrann
Managing Director
Brisbane Soil Testing



Brisbane Soil Testing

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49502
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	04/03/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30473	10:00	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 18.01	30473	-	20.5	21.5	Adj. 1.0 DRY	2.07	Adj. 2.05	101.0
Material Description: REDDISH BROWN SILTY SANDY CLAY											
30474	10:30	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 17.62	30474	-	24.0	24.5	Adj. 0.5 DRY	1.95	Adj. 2.02	96.5
Material Description: REDDISH 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: 05/03/2024



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: 05/03/2024



Brisbane Soil Testing

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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.	49547
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	13/03/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30516	13:30	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 18.63	30516	-	20.0	17.5	Adj. 2.5 WET	2.06	Adj. 2.11	97.5
Material Description: REDDISH BROWN SILTY CLAY											
30517	13:50	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 18.86	30517	-	19.0	18.5	Adj. 0.5 WET	2.04	Adj. 2.08	98.0
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: 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

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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.	49548
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	14/03/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30533	10:30	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 19.47	30533	-	25.0	22.5	Adj. 2.5 WET	1.98	Adj. 2.04	97.0
Material Description: RED SILTY CLAY											
30534	13:00	150	LOT 8 LOC ON ATT PLAN R.L. 20.38	30534	-	20.5	19.5	Adj. 1.0 DRY	2.06	Adj. 2.06	100.0
Material Description: RED SILTY CLAY											
30535	13:30	150	LOT 9 LOC ON ATT PLAN R.L. 20.66	30535	-	21.0	20.5	Adj. 0.5 DRY	2.00	Adj. 2.06	97.0
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: 19/03/2024



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: 19/03/2024



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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49558
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	15/03/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30543	10:30	150	LOT 9 LOC ON ATT PLAN R.L. 21.13	30543	-	17.5	16.5	Adj. 1.0 WET	2.09	Adj. 2.15	97.0
Material Description: REDDISH BROWN SILTY CLAY											
30544	13:00	150	LOT 2 LOC ON ATT PLAN R.L. 19.98	30544	-	16.5	15.0	Adj. 1.5 WET	2.09	Adj. 2.10	99.5
Material Description: REDDISH BROWN SILTY CLAY											
30545	13:30	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 19.28	30545	-	20.5	19.5	Adj. 1.0 WET	2.03	Adj. 2.09	97.0
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: 22/03/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 22/03/2024			
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.	49559
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	19/03/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30553	9:15	150	LOT 4 LOC ON ATT PLAN R.L. 20.38	30553	-	16.0	14.5	Adj. 1.5 WET	2.07	Adj. 2.15	96.5
Material Description: REDDISH BROWN SILTY SANDY CLAY											
30554	9:40	150	LOT 6 LOC ON ATT PLAN R.L. 21.04	30554	-	17.0	15.5	Adj. 1.5 WET	2.13	Adj. 2.16	98.5
Material Description: REDDISH BROWN SILTY SANDY CLAY											
30555	10:15	150	LOT 7 LOC ON ATT PLAN R.L. 21.14	30555	-	20.5	19.0	Adj. 1.5 WET	2.04	Adj. 2.09	97.5
Material Description: RED SILTY CLAY											
30556	12:30	150	LOT 9 LOC ON ATT PLAN R.L. 21.72	30556	-	17.5	16.5	Adj. 1.0 WET	2.10	Adj. 2.13	98.5
Material Description: RED SILTY SANDY CLAY											
30557	13:45	150	LOT 8 LOC ON ATT PLAN R.L. 21.53	30557	-	20.0	18.5	Adj. 1.5 WET	2.11	Adj. 2.09	101.0
Material Description: REDDISH BROWN SILTY CLAY											
30558	14:20	150	LOT 7 LOC ON ATT PLAN R.L. 21.71	30558	-	16.0	15.0	Adj. 1.0 WET	2.16	Adj. 2.15	100.5
Material Description: RED 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: 22/03/2024



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: 22/03/2024



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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49568
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	20/03/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30571	10:00	150	LOT 5 LOC ON ATT PLAN R.L. 21.67	30571	-	18.5	17.5	Adj. 1.0 WET	2.08	Adj. 2.09	99.5
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
30572	10:30	150	LOT 6 LOC ON ATT PLAN R.L. 22.23	30572	-	19.5	18.5	Adj. 1.0 WET	2.09	Adj. 2.08	100.5
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
30573	13:30	150	LOT 4 LOC ON ATT PLAN R.L. 21.08	30573	-	22.0	21.5	Adj. 0.5 WET	2.03	Adj. 2.03	100.0
Material Description: RED SILTY CLAY											
30574	14:00	150	LOT 3 LOC ON ATT PLAN R.L. 20.29	30574	-	22.0	21.0	Adj. 1.0 WET	2.00	Adj. 2.04	98.0
Material Description: RED SILTY CLAY											
30575	14:40	150	LOT 5 LOC ON ATT PLAN R.L. 22.19	30575	-	23.0	22.0	Adj. 1.0 WET	2.08	Adj. 2.04	102.0
Material Description: RED SILTY CLAY											
30576	15:15	150	LOT 4 LOC ON ATT PLAN R.L. 21.65	30576	-	20.5	18.5	Adj. 2.0 WET	2.09	Adj. 2.09	100.0
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 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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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49569
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	20/03/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30577	15:45	150	LOT 3 LOC ON ATT PLAN R.L. 21.02	30577	-	22.0	20.0	Adj. 2.0 WET	2.11	Adj. 2.06	102.5
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 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



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49570
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	21/03/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30590	10:00	150	LOT 1 LOC ON ATT PLAN R.L. 19.66	30590	-	20.0	21.5	Adj. 1.5 DRY	1.95	Adj. 2.03	96.0
Material Description: REDDISH BROWN & YELLOW SILTY CLAY											
30591	10:30	150	LOT 2 LOC ON ATT PLAN R.L. 20.02	30591	-	20.0	19.0	Adj. 1.0 WET	2.08	Adj. 2.07	100.5
Material Description: REDDISH BROWN SILTY CLAY											
30592	12:30	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 19.31	30592	-	21.5	23.0	Adj. 1.5 WET	2.02	Adj. 2.01	100.5
Material Description: RED SILTY CLAY											
30593	13:30	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 21.06	30593	-	18.5	18.0	Adj. 0.5 WET	2.05	Adj. 2.10	97.5
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:											
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1										Specified Density Ratio 95% STD	
Prepared By: G MCGRANN Date: 25/03/2024				Determined on material finer than 19mm				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415			
Checked By: G MCGRANN 											



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49582
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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30609	11:00	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 21.06	30609	-	22.5	21.5	Adj. 1.0 WET	2.01	Adj. 2.05	98.0
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
30610	11:30	150	LOT 2 LOC ON ATT PLAN R.L. 20.86	30610	-	21.0	20.5	Adj. 0.5 WET	2.02	Adj. 2.07	97.5
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
30611	13:00	150	LOT 3 LOC ON ATT PLAN R.L. 21.57	30611	-	21.0	20.0	Adj. 1.0 WET	2.08	Adj. 2.06	101.0
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
30612	13:30	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 21.60	30612	-	19.0	18.0	Adj. 1.0 WET	2.11	Adj. 2.07	102.0
Material Description: RED SILTY SANDY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 26/03/2024



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: 26/03/2024



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49603
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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30633	10:10	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 20.33	30633	-	23.0	21.0	Adj. 2.0 WET	2.00	Adj. 1.96	102.0
Material Description: RED SILTY CLAY											
30634	10:50	150	EMBANKMENT FILL LOC ON ATT PLAN R.L. 21.10	30634	-	16.0	15.5	Adj. 0.5 WET	2.31	Adj. 2.16	103.0
Material Description: LIGHT REDDISH BROWN SILTY SANDY CLAY											
30635	11:40	150	ROAD 03 LOC ON ATT PLAN R.L. 20.92	30635	-	20.5	18.0	Adj. 2.0 WET	2.09	Adj. 2.09	100.0
Material Description: RED SILTY SANDY CLAY											
30636	12:50	150	LOT 2 LOC ON ATT PLAN R.L. 21.74	30636	-	17.5	17.0	Adj. 0.5 WET	2.16	Adj. 2.12	102.0
Material Description: REDDISH BROWN SILTY SANDY CLAY											
30637	13:30	150	LOT 1 LOC ON ATT PLAN R.L. 21.16	30637	-	22.5	22.0	Adj. 0.5 WET	2.00	Adj. 2.01	99.5
Material Description: RED SILTY CLAY											
30638	15:15	150	LOT 1 LOC ON ATT PLAN R.L. 21.82	30638	-	20.0	18.0	Adj. 2.0 WET	2.10	Adj. 2.09	100.5
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: 08/04/2024



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: 08/04/2024



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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49604
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	03/04/2024	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30643	8:00	150	ROAD 03 LOC ON ATT PLAN R.L. 21.02	30643	-	15.0	14.5	Adj. 0.5 WET	2.28	Adj. 2.20	103.5
Material Description: ORANGE BROWN SILTY SANDY CLAY											
30644	8:45	150	ROAD 03 LOC ON ATT PLAN R.L. 21.40	30644	-	15.5	14.5	Adj. 1.0 WET	2.27	Adj. 2.19	103.5
Material Description: REDDISH BROWN SILTY SANDY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:			Specified Density Ratio 95% STD								
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1				Determined on material finer than 19mm							
Prepared By: G MCGRANN Date: 08/04/2024				 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 											



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FIELD DENSITY CERTIFICATE

Connemar Pty. Ltd.
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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49684
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	10/04/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30713	12:00	150	LOT 20 LOC ON ATT PLAN R.L. 22.27	30713	-	21.0	20.0	Adj. 1.0 WET	2.04	Adj. 2.08	98.0
Material Description: REDDISH BROWN SILTY CLAY											
30714	12:30	150	LOT 18 LOC ON ATT PLAN R.L. 20.89	30714	-	18.5	17.5	Adj. 1.0 WET	2.09	Adj. 2.12	98.5
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: 23/04/2024



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: 23/04/2024



Brisbane Soil Testing

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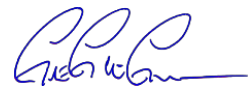

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FIELD DENSITY CERTIFICATE

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

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49687
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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30730	15:30	150	ROAD 03 LOC ON ATT PLAN R.L. 21.09	30730	-	19.0	16.5	Adj. 2.0 WET	2.09	Adj. 2.06	101.5
								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: 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 					



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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.	49690
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	12/04/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30766	9:20	150	LOT 18 LOC ON ATT PLAN R.L. 21.52	30766	-	21.5	21.0	Adj. 0.5 WET	1.99	Adj. 2.05	97.0
Material Description: GREY BROWN SILTY CLAY											
30767	12:30	150	LOT 17 LOC ON ATT PLAN R.L. 21.92	30767	-	17.0	16.5	Adj. 0.5 WET	2.06	Adj. 2.07	99.5
Material Description: BROWN SILTY SANDY CLAY											
30768	14:45	150	LOT 20 LOC ON ATT PLAN R.L. 22.85	30768	-	23.5	23.0	Adj. 0.5 WET	2.00	Adj. 2.02	99.0
Material Description: REDDISH BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 23/04/2024



Accredited for compliance with ISO/IEC 17025 – Testing.
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Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 23/04/2024



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49693
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	17/04/2024	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Half Density Ratio %
30864	8:10	150	LOT 19 LOC ON ATT PLAN R.L. 22.11	30864	-	14.5	14.0	Adj. 0.5 WET	2.13	Adj. 2.11	101.0
Material Description: YELLOW BROWN SILTY SANDY CLAY & ROCK FRAGMENTS											
30865	8:55	150	LOT 16 LOC ON ATT PLAN R.L. 22.33	30865	-	17.0	16.0	Adj. 1.0 WET	2.06	Adj. 2.09	98.5
Material Description: LIGHT REDDISH BROWN SILTY SANDY CLAY											
30866	12:15	150	LOT 21 LOC ON ATT PLAN R.L. 23.30	30866	-	23.5	23.0	Adj. 0.5 WET	2.03	Adj. 2.03	100.0
Material Description: REDDISH BROWN SILTY CLAY											
30867	14:20	150	LOT 18 LOC ON ATT PLAN R.L. 22.40	30867	-	22.0	21.5	Adj. 0.5 WET	2.02	Adj. 2.04	99.0
Material Description: REDDISH BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 23/04/2024



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Results relate only to the items tested.

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 23/04/2024



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FIELD DENSITY CERTIFICATE

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Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49764
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	01/05/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Half Density Ratio %
30932	9:30	150	ROAD 04 LOC ON ATT PLAN R.L. 21.95	30932	-	19.0	16.0	Adj. 3.0 WET	1.98	Adj. 2.04	97.0
Material Description: LIGHT BROWN SILTY SANDY CLAY											
30933	11:45	150	FOOTPATH LOC ON ATT PLAN R.L. 20.70	30933	-	21.0	19.5	Adj. 1.5 WET	2.02	Adj. 2.06	98.0
Material Description: LIGHT GREY BROWN SILTY SANDY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 09/05/2024



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: 09/05/2024



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FIELD DENSITY CERTIFICATE

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Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	BULK EARTHWORKS	Report No.	49765
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	01/05/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30937	10:45	150	LOT 5 LOC ON ATT PLAN R.L. 21.42	30937	-	16.5	16.0	Adj. 0.5 WET	2.02	Adj. 2.08	97.0
Material Description: REDDISH BROWN SILTY CLAY & FINE ROCK FRAGMENTS											
30938	12:20	150	LOT 6 LOC ON ATT PLAN R.L. 21.81	30938	-	22.5	22.0	Adj. 0.5 WET	1.94	Adj. 1.96	99.0
Material Description: REDDISH GREY SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:			Specified Density Ratio 95% STD								
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1				Determined on material finer than 19mm							
Prepared By: G MCGRANN Date: 13/05/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 13/05/2024			
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.	49768
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	02/05/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
30944	9:00	150	LOT 4 LOC ON ATT PLAN R.L. 21.76	30944	-	18.0	18.0	Adj. -	2.08	Adj. 2.11	98.5
Material Description: RED SILTY CLAY & FINE ROCK FRAGMENTS											
30945	9:30	150	LOT 3 LOC ON ATT PLAN R.L. 22.40	30945	-	22.0	21.0	Adj. 1.0 WET	2.07	Adj. 2.04	101.5
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: 13/05/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 13/05/2024			
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.	49841
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	29/05/2024	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
31155	13:30	150	SOUTHERN SWALE CH653 R.L. 15.72	31155	-	29.0	28.5	Adj. 0.5 WET	1.91	Adj. 1.96	97.5
Material Description: GREY BROWN & RED CLAY											
31156	14:20	150	SOUTHERN SWALE CH656 R.L. 16.18	31156	-	30.5	29.5	Adj. 1.0 WET	1.86	Adj. 1.95	95.5
Material Description: GREY BROWN & RED CLAY											
31157	14:55	150	SOUTHERN SWALE CH589 R.L. 16.52	31157	-	22.5	21.0	Adj. 1.5 WET	1.96	Adj. 2.05	95.5
Material Description: YELLOW BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 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

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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.	49940
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	07/06/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
31307	13:45	150	SOUTHERN SWALE CH461 R.L. 17.58	31307	-	18.5	17.0	Adj. 1.5 WET	1.98	Adj. 2.06	96.0
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	
								Adj.		Adj.	

Remarks:		Specified Density Ratio 95% STD	
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1	Determined on material finer than 19mm		
Prepared By: G MCGRANN Date: 18/06/2024	 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415	Greg McGrann/Manager Approved Signatory Date: 18/06/2024	
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.	49941
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	10/06/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
31324	10:30	150	SWALE BATTER(WELL) LOC ON ATT PLAN R.L. 15.68	31324	-	20.0	20.5	Adj. 0.5 DRY	1.94	Adj. 1.98	98.0
Material Description: BROWN SILTY CLAY											
31325	11:20	150	SWALE BATTER(WELL) LOC ON ATT PLAN R.L. 16.41	31325	-	17.5	18.5	Adj. 1.0 DRY	2.00	Adj. 2.03	98.5
Material Description: REDDISH BROWN SILTY CLAY											
31326	12:45	150	SWALE BATTER(WELL) LOC ON ATT PLAN R.L. 17.06	31326	-	16.5	19.0	Adj. 2.5 DRY	2.01	Adj. 2.06	97.5
Material Description: REDDISH BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:			Specified Density Ratio 95% STD								
Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1				Determined on material finer than 19mm							
Prepared By: G MCGRANN Date: 18/06/2024				 Accredited for compliance with ISO/IEC 17025 – Testing. Results relate only to the items tested. Accreditation No.2415				Greg McGrann/Manager Approved Signatory Date: 18/06/2024			
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.	49964
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	10/06/2024	Tested by	JM

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
31318	7:15	150	LOT 15 LOC ON ATT PLAN R.L. 22.47	31318	-	18.5	17.0	Adj. 1.5 WET	2.06	Adj. 2.09	98.5
Material Description: REDDISH BROWN SOME YELLOW SILTY CLAY											
31319	8:00	150	LOT 22 LOC ON ATT PLAN R.L. 23.87	31319	-	16.0	15.0	Adj. 1.0 WET	2.17	Adj. 2.15	101.0
Material Description: REDDISH BROWN SILTY SANDY CLAY											
31320	8:45	150	LOT 21 LOC ON ATT PLAN R.L. 23.77	31320	-	15.5	15.5	Adj. -	2.09	Adj. 2.13	98.0
Material Description: REDDISH BROWN SILTY SANDY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN
Date: 19/06/2024



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: 20/06/2024



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.	50161
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	202404
Project	LILYWOOD LANDINGS – STAGE 1A & 1B	Date Tested	31/07/2024	Tested by	GMG

Field Test N ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
32021	11:55	150	LOT 19 LOC ON ATT PLAN R.L. 22.76	32021	-	21.5	22.0	Adj. 0.5 DRY	2.08	Adj. 2.04	102.0
Material Description: RED SILTY SANDY CLAY											
32022	12:40	150	LOT 54 LOC ON ATT PLAN R.L. 23.71	32022	-	16.0	17.5	Adj. 1.5 DRY	2.02	Adj. 2.08	97.0
Material Description: LIGHT REDDISH BROWN SILTY SANDY CLAY											
32023	14:00	150	LOT 53 LOC ON ATT PLAN R.L. 24.10	32023	-	17.5	17.0	Adj. 0.5 WET	2.06	Adj. 2.09	98.5
Material Description: RED SILTY SANDY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

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



Brisbane Soil Testing

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Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

Job No. 202404

14th 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

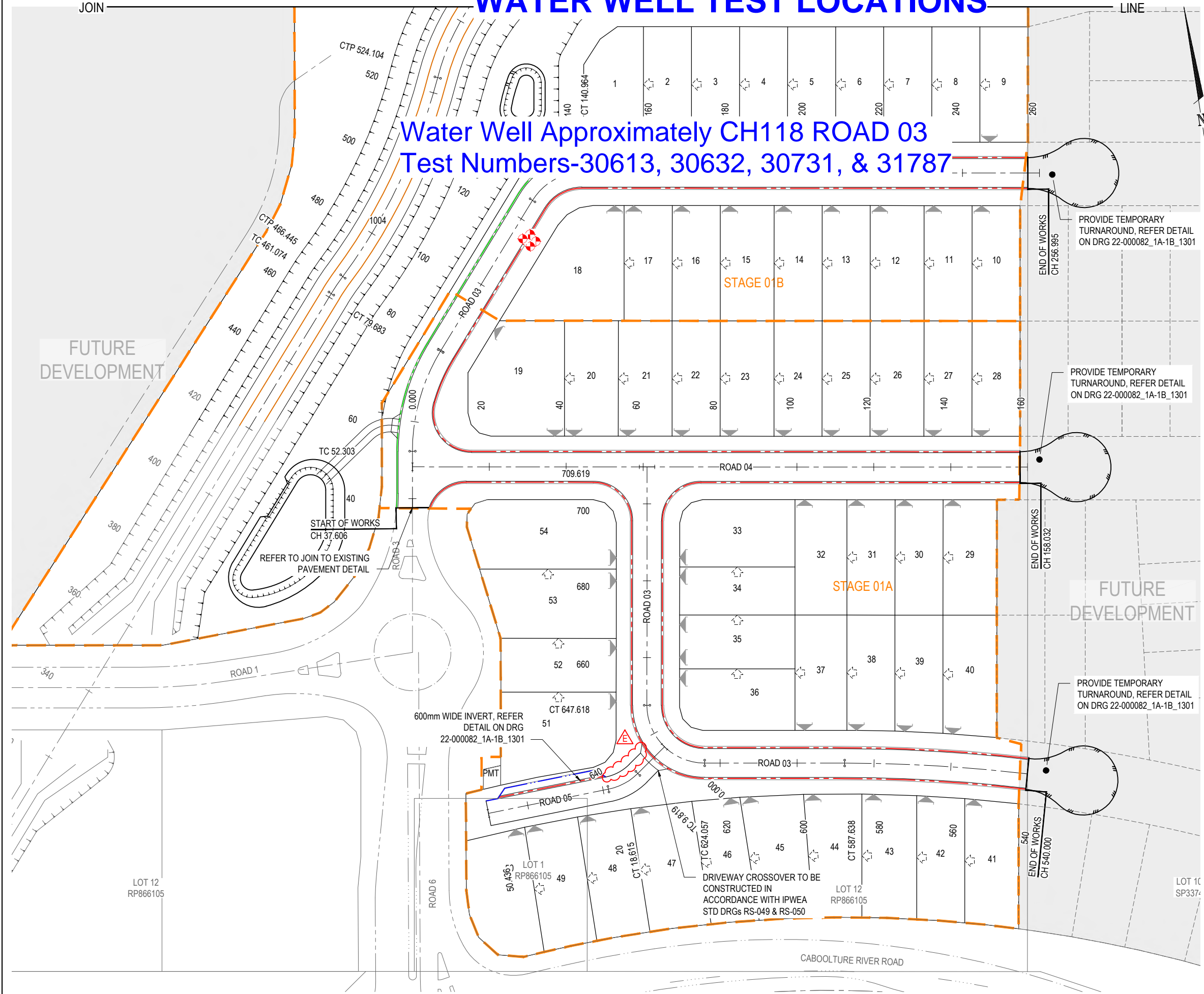


Brisbane Soil Testing

20/1191 Anzac Ave
Kallangur, Q. 4503

WATER WELL TEST LOCATIONS

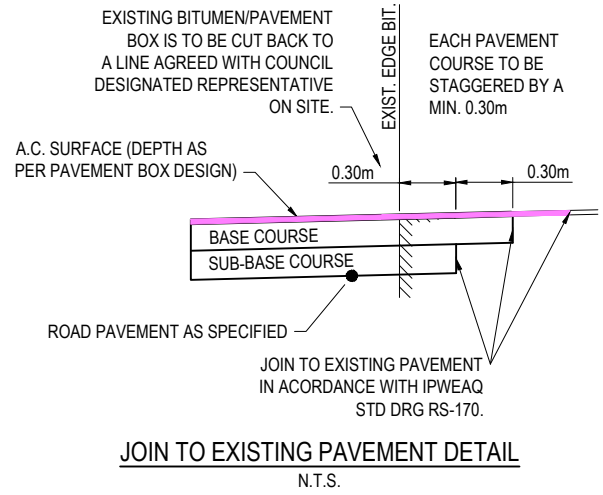
Water Well Approximately CH118 ROAD 03
Test Numbers-30613, 30632, 30731, & 31787



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

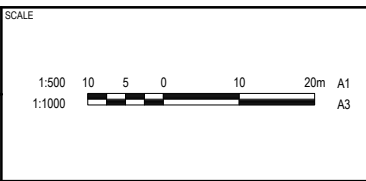
NOTE:
 REFER TO DRAWING 22-000082_1A-1B_1301 FOR KERB DETAILS AND CONTROL LINE SETOUT TABLES



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.

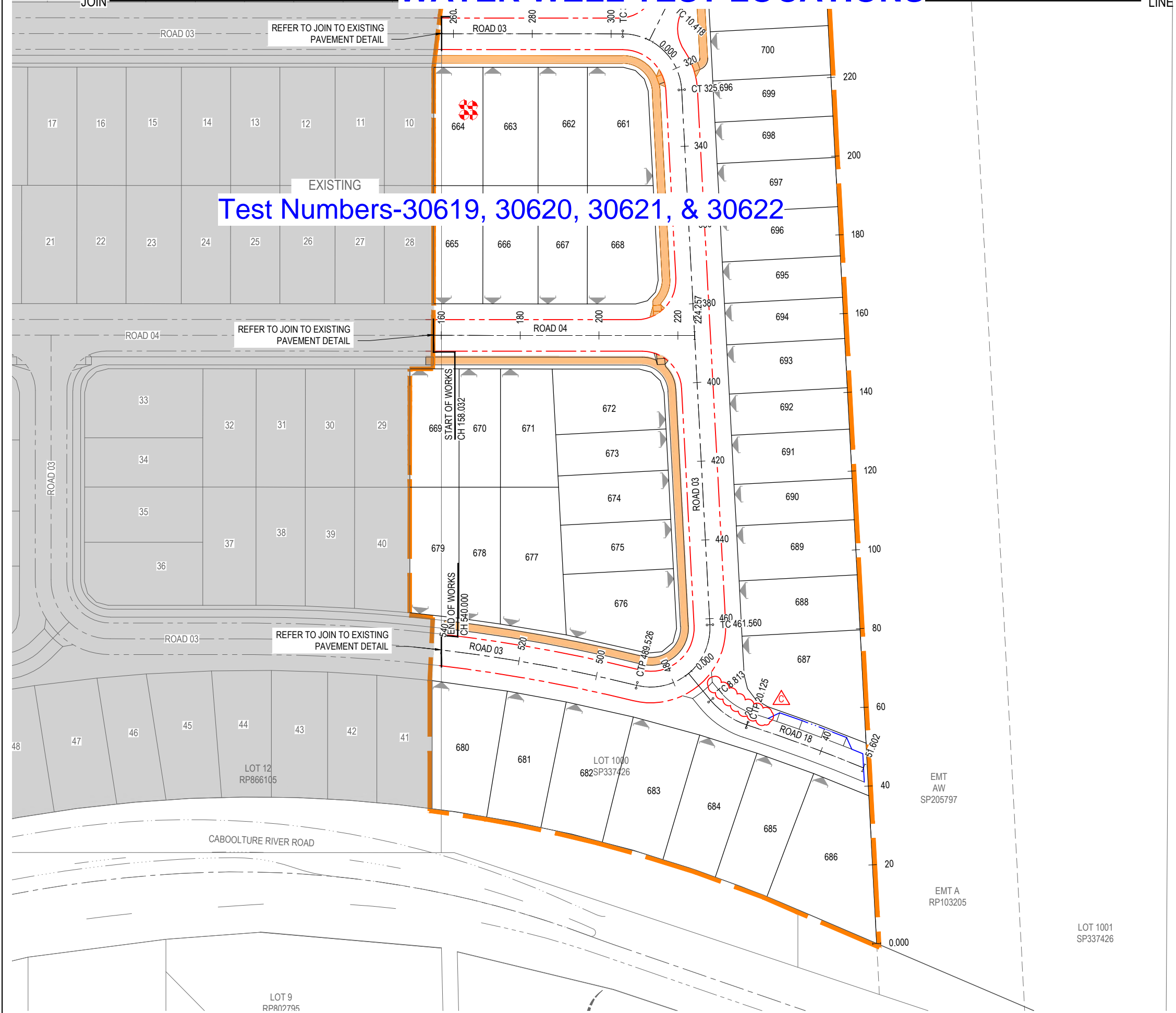
DRAWING TITLE

CONTROL LINE SETOUT PLAN SHEET 1 OF 2

PROJECT No.	DRAWING No.	REVISION
22-000082_1A-1B	1300	E

Received
 BMD Urban Pty Ltd
 20/11/2023

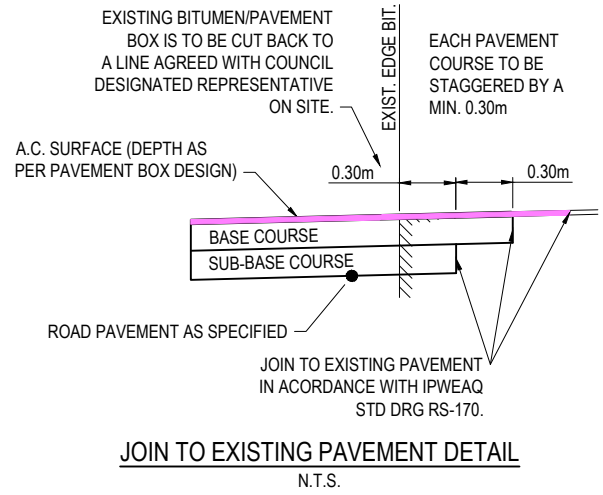
WATER WELL TEST LOCATIONS



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)

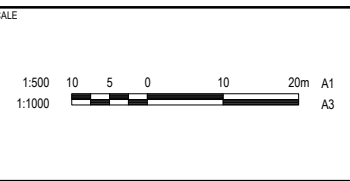
NOTE:
REFER TO DRAWING 22-000082_23_1302 FOR KERB DETAILS AND CONTROL LINE SETOUT TABLES



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

Received
BMD Urban Pty Ltd
28/11/2023



Well Number 2



Well Number 2



Well Number 2



Well Number 2



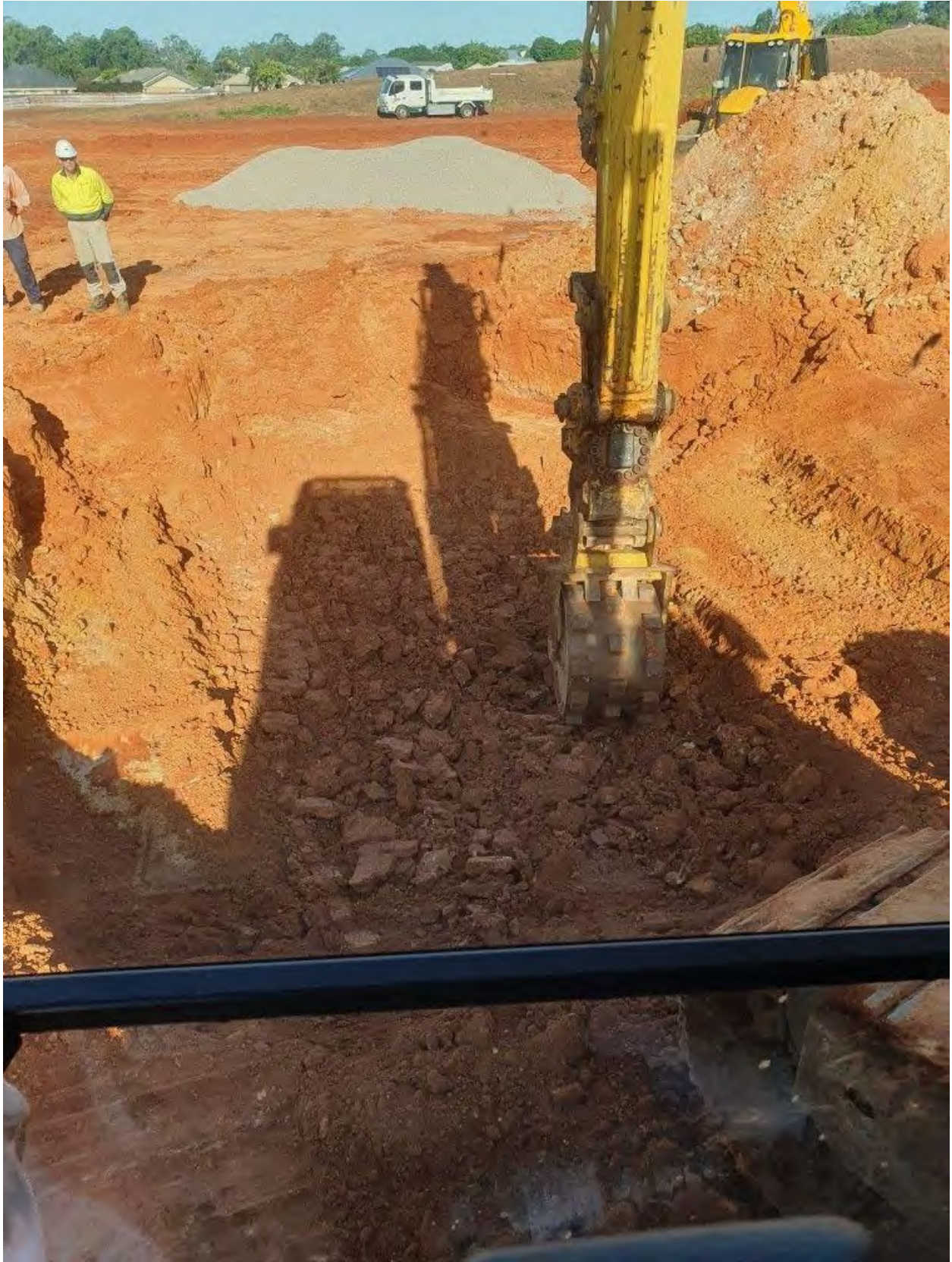
Well Number 1



Well Number 1



Well Number 1



Well Number 1



Brisbane Soil Testing

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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.	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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
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	99.5
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	101.0
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	98.5
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. 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.	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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
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	101.5
								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
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.	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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
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	99.0
								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 					



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FIELD DENSITY CERTIFICATE

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

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 08/04/2024



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
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	100.0
								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.

Checked By: G MCGRANN

Accreditation No.2415

Greg McGrann/Manager
Approved Signatory
Date: 23/04/2024



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FIELD DENSITY CERTIFICATE

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ABN 50 065 093 647
Geotechnical Testing Services

Customer	BMD URBAN PTY LTD	Feature	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 ^o Sample N ^o	Time of Test	Depth of Test mm	Test Location	Lab Compaction N ^o	% Oversize 19mm/37.5mm Wet Basis	Field Moisture Content %	Optimum Moisture Content %	Moisture Variation %	Field Wet Density t/m ³	Peak Converted Wet Density t/m ³	Hilf Density Ratio %
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	102.5
								Adj.		Adj.	
								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 