



## **Brisbane Soil Testing**

20/1191 Anzac Ave

Kallangur, Q. 4503

Ph. (07) 3285 6536

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Geotechnical Testing Services.

Connemar Pty. Ltd.

ABN 50 065 093 647

Job No. 1924

13<sup>th</sup> of April 2023

BMD Urban Pty Ltd  
PO Box 197  
WYNNUM CENTRAL QLD 4178

Attn Steven Bennett

**RE: HILLSIDE MOOLOOLAH VALLEY – STAGE 4**  
(Allotment Fill – Geotechnical Inspection & Testing)

### **SCOPE**

Brisbane Soil Testing were commissioned by BMD Urban Pty Ltd to provide geotechnical inspection and testing of the allotment earthworks to lot 409 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 14<sup>th</sup> of October 2022 and on an ongoing basis as the job progressed, by Brisbane Soil Testing staff and Steve Hackworth – The Soil Testers.

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

One field density test was carried out on the 17<sup>th</sup> of October 2022. The test recorded a Dry Density Ratio of 98.0% relative to the standard compaction test and field moisture contents within -0.5% of the respective optimum moisture content, AS1289.5.1.1.

Attached document B194/4 (Report No. 48092 provides full test data for the compaction control test).

## CONCLUSION

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

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



GREG McGRANN  
**BRISBANE SOIL TESTING**



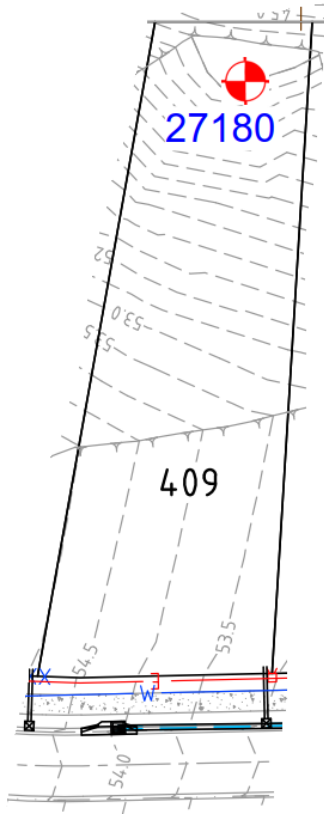
STEVEN HACKWORTH  
**THE SOILTESTERS**  
R.P.E.Q. No.9411



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**EARTHWORKS SUMMARY REPORT  
HILLSIDE MOOLOOLAH VALLEY – STAGE 4  
LOT 409**



**Field Density Results**

Test No.	Date Tested	Test Location	Dry Density Ratio % AS1289 5.4.1 (Standard)
27180	17/10/2022	o/s 2m Rear bdy, o/s 5m Right bdy R.L. 45.14	98.0

In our opinion all fill on Lot 409 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 of AS3798-2007 and the project specifications. We confirm that filling to design final level can be termed controlled filling in accordance with Section 6.4.2. of AS2870-2011, via a “Level 1” inspection and testing commission.

  
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**GREG 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	ALLOTMENT FILL	Report No.	48092
Address	PO BOX 197, WYNNUM CENTRAL QLD 4178	Location	SEE BELOW	Job No.	1924
Project	HILLSIDE MOOLOOLAH VALLEY – STAGE 4	Date Tested	17/10/2022	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 %
27180	14:00	150	LOT 409 2m Rear bdy, 5m Right bdy R.L. 45.14	27180	-	21.0	21.5	Adj. 0.5 DRY	2.00	Adj. 2.04	<b>98.0</b>
								Adj.		Adj.	
Material Description: GREY BROWN SILTY CLAY											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											
								Adj.		Adj.	
Material Description:											

Remarks:

Specified Density Ratio 95% STD

Test Procedures: AS1289 5.1.1, 5.3.1, 5.7.1, 2.1.1

Determined on material finer than 19mm

Prepared By: G MCGRANN  
Date: 20/10/2022



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: 20/10/2022