

Material Test Report



LABORATORIES

Gympie Laboratory

1 Dennis Little Drive Glanmire QLD 4570

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Email: ben.caulley@gsglabs.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



BCaulley

Approved Signatory: Benjamin Caulley

Laboratory Assistant Manager

NATA Accredited Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-3
Issue Number: 1
Date Issued: 25/09/2025
Client: ROBERTS BROS PTY LTD
PO BOX 247, COOROY QLD 4563
Contact: PHIL ROBERTS
Project Number: GSGY-GLN-25-293
Project Name: GREENDALE STAGE 7
Project Location: LOT 99 ON SP345311 (#95) MOOLOO ROAD, PIE CREEK
Work Request: 5700
Dates Tested: 03/09/2025 - 18/09/2025
Sampling Method: AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted
Preparation Method: AS 1289.1.1 - Sampling and Preparation of Soils
Specification: Minimum 95% Hlf Density Ratio
Location: Greendale Stage 7 - Lot 17 - Level 1 Supervision
Lot Number: 17
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G5700A	G5700B	G5700C	G5700D
Date Tested	03/09/2025	03/09/2025	03/09/2025	05/09/2025
Time Tested	12:50	12:55	13:00	13:45
Test Request #/Location	4/9/25 Lot 17	4/9/25 Lot 17	4/9/25 Lot 17	5/9/25 Lot 17
Easting	462596.17	462594.71	462591.38	462596.77
Northing	7096362.41	7096354.15	7096345.56	7096338.30
Elevation (m)	69.03	68.95	68.67	69.29
Layer / Reduced Level	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Thickness of Layer (mm)	300	300	300	300
Soil Description	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	0	0	0	**
Field Wet Density (FWD) t/m ³	2.08	2.11	2.11	2.00
Field Moisture Content %	18.0	17.5	18.3	21.3
Field Dry Density (FDD) t/m ³	1.77	1.79	1.78	1.65
Peak Converted Wet Density t/m ³	1.99	1.99	2.00	2.02
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	1.5	2.0	0.0	0.5
Adjusted Moisture Variation %	**	**	**	**
Hlf Density Ratio (%)	105.0	105.5	105.5	99.5
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC

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Specification: Minimum 95% Hlf Density Ratio
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Lot Number: 17
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1				
Sample Number	G5700E	G5700F	G5700G	G5700H
Date Tested	05/09/2025	10/09/2025	10/09/2025	10/09/2025
Time Tested	13:55	15:20	15:30	15:35
Test Request #/Location	5/9/25 Lot 17	10/9/25 Lot 17	10/9/25 Lot 17	10/9/25 Lot 17
Easting	462607.18	462602.63	462589.13	462581.40
Northing	7096330.84	7096348.17	7096346.23	7096356.71
Elevation (m)	69.43	69.69	69.54	69.42
Layer / Reduced Level	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Thickness of Layer (mm)	300	300	300	300
Soil Description	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Test Depth (mm)	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**
Field Wet Density (FWD) t/m ³	2.05	2.09	2.09	2.02
Field Moisture Content %	22.0	15.9	13.4	17.6
Field Dry Density (FDD) t/m ³	1.68	1.81	1.84	1.72
Peak Converted Wet Density t/m ³	2.00	1.98	1.97	1.98
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**
Moisture Variation (Wv) %	0.5	2.0	2.0	2.0
Adjusted Moisture Variation %	**	**	**	**
Hlf Density Ratio (%)	102.5	106.0	106.0	102.0
Compaction Method	Standard	Standard	Standard	Standard
Remarks	**	**	**	**

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC