

Material Test Report



LABORATORIES

Gympie Laboratory
1 Dennis Little Drive Glanmire QLD 4570

Phone: (07) 4128 3213

Email: ben.caulley@gsglabs.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



B. Caulley

Approved Signatory: Benjamin Caulley

Laboratory Assistant Manager

Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-34
Issue Number: 1
Date Issued: 17/02/2026
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: 6639
Date Sampled: 09/02/2026
Dates Tested: 09/02/2026 - 13/02/2026
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% Hilt Density Ratio
Location: Greendale Stage 7 - Level 1 Supervision - Lot 27
Lot Number: 27
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6639A	G6639B	G6639C	G6639D	G6639E
Date Tested	09/02/2026	09/02/2026	09/02/2026	09/02/2026	11/02/2026
Time Tested	14:30	14:35	14:40	14:50	10:30
Test Request #/Location	Lot 27	Lot 27	Lot 27	Lot 27	Lot 27
Easting	462689.556	462709.114	462695.010	462718.525	462670.780
Northing	7096417.965	7096422.984	7096442.309	7096446.461	7096424.991
Elevation (m)	69.44	69.27	69.02	68.72	70.693
Layer / Reduced Level	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	**	**
Field Wet Density (FWD) t/m ³	2.04	2.10	2.05	2.07	1.97
Field Moisture Content %	16.9	19.9	16.7	17.8	22.2
Field Dry Density (FDD) t/m ³	1.74	1.75	1.76	1.75	1.61
Peak Converted Wet Density t/m ³	1.98	2.01	1.97	2.00	1.92
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.0	0.0	0.5	0.5	2.0
Adjusted Moisture Variation %	**	**	**	**	**
Hilt Density Ratio (%)	102.5	104.5	104.5	103.5	103.0
Compaction Method	Standard	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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Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6639F	G6639G	G6639H	G6639I	G6639J
Date Tested	11/02/2026	11/02/2026	11/02/2026	12/02/2026	12/02/2026
Time Tested	10:35	10:40	10:50	12:10	12:15
Test Request #/Location	Lot 27	Lot 27	Lot 27	Lot 27	Lot 27
Easting	462718.570	462699.013	462725.719	462691.876	462697.944
Northing	7096428.075	7096435.152	7096453.585	7096432.513	7096439.832
Elevation (m)	69.733	70.044	69.754	70.755	70.671
Layer / Reduced Level	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Thickness of Layer (mm)	300	300	300	300	300
Soil Description	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill	Embankment Fill
Test Depth (mm)	275	275	275	275	275
Sieve used to determine oversize (mm)	19.0	19.0	19.0	19.0	19.0
Percentage of Wet Oversize (%)	**	**	**	0	0
Field Wet Density (FWD) t/m ³	2.01	1.98	2.05	1.94	1.97
Field Moisture Content %	21.4	20.9	21.6	20.4	20.4
Field Dry Density (FDD) t/m ³	1.66	1.64	1.69	1.61	1.64
Peak Converted Wet Density t/m ³	1.92	1.91	1.93	1.93	1.95
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	2.0	2.0	2.0	1.5	1.0
Adjusted Moisture Variation %	**	**	**	**	**
Hlf Density Ratio (%)	105.0	104.0	106.5	100.5	101.0
Compaction Method	Standard	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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Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6639K	G6639L	G6639M	G6639N	
Date Tested	12/02/2026	12/02/2026	12/02/2026	12/02/2026	
Time Tested	12:20	12:30	12:40	12:50	
Test Request #/Location	Lot 27	Lot 27	Lot 27	Lot 27	
Easting	462690.145	462712.897	462722.473	462730.686	
Northing	7096448.596	7096423.966	7096443.585	7096428.644	
Elevation (m)	70.722	70.540	70.765	70.430	
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	0	
Field Wet Density (FWD) t/m ³	2.00	2.03	1.96	2.01	
Field Moisture Content %	21.0	20.5	20.3	21.5	
Field Dry Density (FDD) t/m ³	1.65	1.68	1.63	1.65	
Peak Converted Wet Density t/m ³	1.92	1.97	1.93	1.92	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	
Moisture Variation (Wv) %	2.0	2.0	2.0	2.0	
Adjusted Moisture Variation %	**	**	**	**	
Hlf Density Ratio (%)	104.5	103.0	102.0	104.5	
Compaction Method	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	

Moisture Variation Note:

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