

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



BCaulley

Approved Signatory: Benjamin Caulley

Laboratory Assistant Manager

NATA Accredited Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-15
Issue Number: 1
Date Issued: 16/12/2025
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: 6397
Date Sampled: 02/12/2025
Dates Tested: 03/12/2025 - 09/12/2025
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 19 - Level 1 Supervision
Lot Number: 19
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6397A	G6397B	G6397C	G6397D	G6397E
Date Tested	02/12/2025	02/12/2025	02/12/2025	02/12/2025	04/12/2025
Time Tested	15:30	15:35	15:40	15:45	09:50
Test Request #/Location	Lot 19	Lot 19	Lot 19	Lot 19	Lot 19
Easting	462624.95	462623.94	462597.75	462599.20	462624.36
Northing	7096460.06	7096444.08	7096448.26	7096466.89	7096440.41
Elevation (m)	69.28	69.28	68.81	68.84	69.77
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	2.04	2.05	2.01	2.02
Field Moisture Content %	20.3	21.0	20.0	21.0	21.4
Field Dry Density (FDD) t/m ³	1.70	1.68	1.71	1.66	1.66
Peak Converted Wet Density t/m ³	2.02	2.03	2.02	2.02	2.11
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	**
Moisture Variation (Wv) %	0.5	0.0	0.0	0.5	-0.5
Adjusted Moisture Variation %	**	**	**	**	**
Hlf Density Ratio (%)	101.0	100.5	101.5	99.0	95.5
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

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



BCaulley

Approved Signatory: Benjamin Caulley

Laboratory Assistant Manager

NATA Accredited Laboratory Number: 20956

Report Number: GSGY-GLN-25-293-15
Issue Number: 1
Date Issued: 16/12/2025
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: 6397
Date Sampled: 02/12/2025
Dates Tested: 03/12/2025 - 09/12/2025
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% Hilf Density Ratio
Location: Greendale Stage 7 - Lot 19 - Level 1 Supervision
Lot Number: 19
Material: Embankment Fill
Material Source: Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1					
Sample Number	G6397F	G6397G	G6397H	G6397I	
Date Tested	04/12/2025	04/12/2025	04/12/2025	04/12/2025	
Time Tested	09:55	10:00	10:05	10:15	
Test Request #/Location	Lot 19	Lot 19	Lot 19	Lot 19	
Easting	462607.45	462584.98	462627.08	462593.52	
Northing	7096452.10	7096450.95	7096466.71	7096473.84	
Elevation (m)	69.49	69.08	69.78	69.10	
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	2.10	2.08	2.01	2.05	
Field Moisture Content %	20.9	19.0	20.0	19.0	
Field Dry Density (FDD) t/m ³	1.74	1.75	1.67	1.72	
Peak Converted Wet Density t/m ³	2.02	2.10	2.10	2.10	
Adjusted Peak Converted Wet Density t/m ³	**	**	**	**	
Moisture Variation (Wv) %	1.0	-0.5	-0.5	-0.5	
Adjusted Moisture Variation %	**	**	**	**	
Hilf Density Ratio (%)	104.0	99.0	95.5	97.0	
Compaction Method	Standard	Standard	Standard	Standard	
Remarks	**	**	**	**	

Moisture Variation Note:

Positive values = test is dry of OMC

Negative values = test is wet of OMC