

# Material Test Report



**GSG** LABORATORIES

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Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Jake Davey

Laboratory Manager

NATA Accredited Laboratory Number: 20956

**Report Number:** GSGY-GLN-24-175-57  
**Issue Number:** 1  
**Date Issued:** 27/11/2024  
**Client:** ROBERTS BROS PTY LTD  
 PO BOX 247, COOROY QLD 4563  
**Contact:** DAVID ROBERTS  
**Project Number:** GSGY-GLN-24-175  
**Project Name:** Oakridge Estate  
**Project Location:** LOT 9 ON RP224705 & LOT 8 ON RP218636,  
 GLASTONBURY ROAD, NAHRUNDA  
**Work Request:** 4301  
**Date Sampled:** 16/10/2024 16:05  
**Dates Tested:** 16/10/2024 - 28/10/2024  
**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:** Oakridge Estate - Level 1 Supervision - LOT 11  
**Material:** Embankment Fill  
**Material Source:** Onsite

Compaction Control AS 1289 5.7.1 & 5.8.1 & 2.1.1			
Sample Number	G4301A	G4301B	
Date Tested	16/10/2024	23/10/2024	
Time Tested	16:05	16:00	
Test Request #/Location	16/10/24 Lot 11	23/10/24 Lot 11	
Easting	462068.33	462067.25	
Northing	7101697.22	7101692.03	
Elevation (m)	67.49	68.39	
Layer / Reduced Level	Embankment Fill	Embankment Fill	
Thickness of Layer (mm)	300	300	
Soil Description	Embankment Fill	Embankment Fill	
Test Depth (mm)	275	275	
Sieve used to determine oversize (mm)	19.0	19.0	
Percentage of Wet Oversize (%)	19	17	
Field Wet Density (FWD) t/m <sup>3</sup>	2.20	2.23	
Field Moisture Content %	16.0	9.1	
Field Dry Density (FDD) t/m <sup>3</sup>	1.90	2.04	
Peak Converted Wet Density t/m <sup>3</sup>	**	**	
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	2.19	2.25	
Moisture Variation (Wv) %	**	**	
Adjusted Moisture Variation %	2.0	1.5	
Hilf Density Ratio (%)	<b>101.0</b>	<b>99.0</b>	
Compaction Method	<b>Standard</b>	<b>Standard</b>	
Report Remarks	**	**	

**Moisture Variation Note:**

Positive values = test is dry of OMC

Negative values = test is wet of OMC