

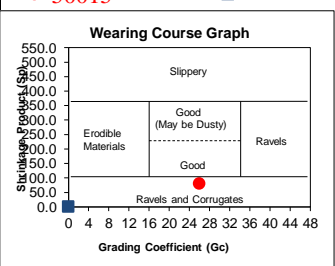
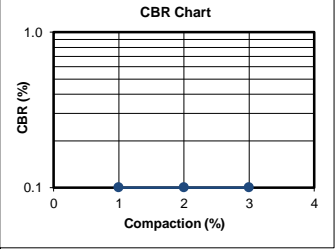
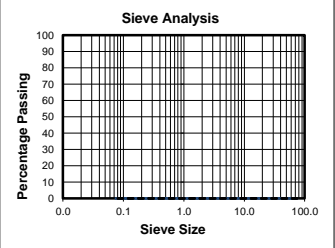
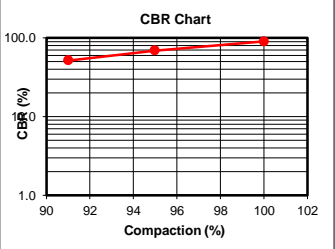
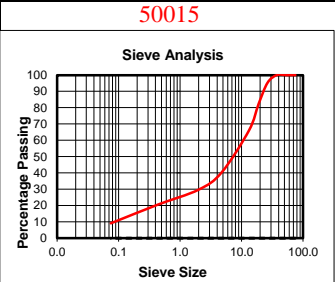


Customer :	Robberg Quarry	Project :	Yard
	Po Box 3021	Date Received :	04/02/13
	Plettenberg Bay	Date Reported :	22/02/13
Attention :	6600	Req. Number :	0200/13
	R Julian	No. of Pages :	1

### TEST REPORT

### CALIFORNIA BEARING RATIO - (TMH 1 Method A1(a),A2,A3,A4,A5,A7,A8)

Material Indicators		Opinion	
Sample Position (SV)	Stockpile		
Depth (mm)	N/A		
Sample No	<b>50015</b>	<b>Spec.</b> SABS 1200ME	
Materials Description	Source Colour Soil Type Classification	Robberg Quarry Reddish Crushed Quartzitic Sandstone Proposed Wearing Course G5	
Max. Stone size in hole (mm)			
Percentage Passing	75.0 mm	100	
	63.0 mm	100	
	53.0 mm	100	
	37.5 mm	100	
	26.5 mm	95	
	19.0 mm	82	
	13.2 mm	66	
	4.75 mm	40	
	2.00 mm	30	
0.425 mm	20		
0.075 mm	9.1		
Soil Mortar & Constants			
Grading Modulus	2.41		
Coarse Sand <2.0 >0.425	31.3		
Med. <0.250 >0.150	38.0		
Silt <0.075	30.6		
Liquid Limit (%)	18		
Plasticity Index (%)	8		
Linear Shrinkage (%)	4.0		
CBR / Density Relationship			
MOD	Max Dry Density (kg/m <sup>3</sup> )	2263	
	Opt Moisture Content (%)	5.3	
	Mould Moisture Con. (%)	5.6	
	@ 100% Mod AASHTO	100.0	
	Swell (%)	0.07	
NRB	100% NRB	95.0	
	Swell (%)	0.08	
Proc	100% Proctor	91.0	
	Swell (%)	0.10	
CBR	@ 100% Mod AASHTO	90	
	@ 98% Mod AASHTO	82	
	@ 95% Mod AASHTO	69	≥45 ✓
	@ 93% Mod AASHTO	60	
	@ 90% Mod AASHTO	48	
Insitu Moisture Content (%)			
Soil Classification			
Oversize Index (%)	0.0	≤5	✓
Shrinkage Product (-37.5mm)	80.0	100-365	×
Grading Coefficient (-37.5mm)	26.0	16-34	✓



- Specimens sampled by Outeniqua Lab according to sampling Plan TMH 5 Methods MB1 & MC1
- Specimens sampled by : M Sangwe
- The weather conditions are such that there is no detrimental effect on the sample taken.

L Heathcote (Director)  
For Outeniqua Lab (Pty) Ltd  
Technical Signatory

- Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.
- The opinion column is an interpretation of the direct comparison between the quoted specification and the single test sample results obtained. The compliant (✓), non compliant (×) and uncertain (\*) opinion indicators are based on an approximate 95% level of confidence with reference to SAMM GUIDANCE 1, Issue 2 : 20 June 2007 Section 2.
- The uncertain (\*) indicates that the test result is either equal to or is above / below the specified limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliant (✓) or non compliant (×) based on a 95% level of confidence with reference to SAMM GUIDANCE 1, Issue 2 : 20 June 2007 Section 2.
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