



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								50012		
Sample Position (SV)	Stockpile	Spec.	Opinion							
Depth (mm)	N/A	G1 -								
Sample No	50012	TRH 14								
Materials Description	Robberg Quarry Light Brown Crushed Quartzitic Sandstone Proposed Base Course G1									
Source										
Colour										
Soil Type										
Classification										
Max. Stone size in hole (mm)										
Percentage Passing	75.0 mm	100								
	63.0 mm	100								
	53.0 mm	100	100	*						
	37.5 mm	100	100	*						
	26.5 mm	90	84-94	✓						
	19.0 mm	79	71-84	✓						
	13.2 mm	70	59-75	✓						
	4.75 mm	49	36-53	✓						
	2.00 mm	36	23-40	✓						
	0.425 mm	22	11-24	✓						
0.075 mm	7.7	4-12	✓							
Soil Mortar & Constants										
Grading Modulus		2.35								
Coarse Sand <2.0 >0.425		39.0								
Med. <0.250 >0.150		39.3								
Silt <0.075		21.6								
Liquid Limit (%)		NP	≤25	✓						
Plasticity Index (%)		NP	≤5	✓						
Linear Shrinkage (%)		0.0	≤2	✓						
CBR / Density Relationship										
MOD	Max Dry Density (kg/m³)		2213							
	Opt Moisture Content (%)		6.0							
	Mould Moisture Con. (%)		6.3							
	@ 100% Mod AASHTO		99.9							
	Swell (%)		0.00	≤0.2	✓					
NRB	100% NRB		95.7							
	Swell (%)		0.00							
Proc	100% Proctor		92.8							
	Swell (%)		0.02							
CBR	@ 100% Mod AASHTO		194							
	@ 98% Mod AASHTO		171	≥80	✓					
	@ 95% Mod AASHTO		136							
	@ 93% Mod AASHTO		113							
	@ 90% Mod AASHTO		78							
Insitu Moisture Content (%)										
Soil Classification										
TRH 14			G1							
PRA System			A-1-a / A-1-b / A-2-4							
Unified System			GP-GM							

- 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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