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VALLEY CIVIL LAB

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Aggregate Report for Engineering Purposes

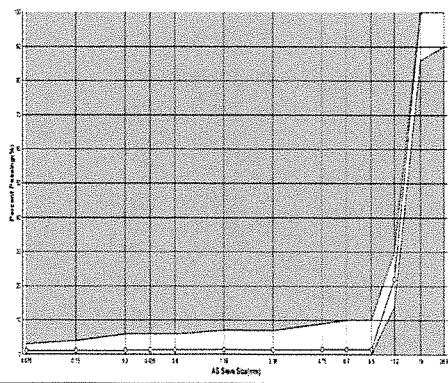
Client :	Hunter Quarries	Report Number:	P139 - 1196/1
Address :	Cnr Andersite Road and Tarean Road, Karuah NSW 2324	Report Date :	2/06/2016
Project Name :	Material Evaluation	Order Number :	
Project Number :	P139	Test Method :	AS1141.11.1
Location:	Branch Lane-Karuah Quarry , Karuah	Page 1 of 1	

Sample Number : S16-2098	Sampling Method : AS1141.3.1 (9.4)
Date Sampled : 20/05/2016	Material Source : Hunter Quarries - Karuah
Date Tested : 2/06/2016	Material Type : 20mm Andersite Tuff Aggregate
Sampled By : James Wyatt	Remarks : Sample conforms to the specification for the test method(s) referenced.

SAMPLE LOCATION: 4000 Tonne Lot , , ,

Lot Number : 124 Test Number : A Specification Number : RMS 3152 (20mm)

AS Sieve Size (mm)	Sieve Analysis Percent Passing	Specification Limits	Nominal Size of Aggregate	20 mm	Test Method	Result	Specification Limits
			Nature of Bulk Sample				
100			Material Finer than 75µm		AS1141.12	0.4	Report
75			Density & Water Absorption (Coarse)		AS1141.6.1		
63			Apparent Particle Density	t/m ³		2.71	
53			Particle Density (on a dry basis)	t/m ³		2.65	
37.5			Particle Density (on a SSD basis)	t/m ³		2.67	
26.5		90-100	Water Absorption	%		0.8	<= 2.5
19	100		Density & Water Absorption (Fine)				
16			Apparent Particle Density	t/m ³			
13.2	22	14-30	Particle Density (on a dry basis)	t/m ³			
9.5	2	0-10	Particle Density (on a SSD basis)	t/m ³			
6.7	1	0-10	Water Absorption	%			
4.75	1	0-9	Bulk Density (Loose)	t/m ³		1.45	
2.36	1	0-7	Bulk Density (Compacted)	t/m ³		1.56	
1.18	1	0-7	Moisture Condition of Aggregate				
0.600	1	0-6	Particle Shape % Total Mishappen	2:1	AS1141.14	5	<= 25
0.425	1	0-6	Flat	%		3.0	
0.300	1	0-6	Elongated	%		1.6	
0.150	1	0-4	Flat and Elongated	%		0.0	
0.075	1	0-3	Particle Shape % Total Mishappen	3:1		0	<= 10
			Flat	%		0.1	
			Elongated	%		0.0	
			Flat and Elongated	%		0.0	
			Wet / Dry Strength Variation				
			Wet Strength	kN			
			Dry Strength	kN			
			Wet / Dry Strength Variation	%			
			Size Fraction of Test portion Breakdown				
			Size of Test Cylinder Used	mm			
			Average Least Dimension	mm			
			Weak Particles	%			
			Flakiness Index				
			Organic Impurities other than Sugar				
			Method of Determination				



<p>Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.</p>	<p>APPROVED SIGNATORY</p> <p>James Wyatt - Technician - Quarry Materials NATA Accreditation Number 14975</p>
	<p>Document Code RF5.1-7</p>