

Material Test Report



Ground Science South West

Geotechnical & Environmental Consultants

Report Number: GSSW576-21
Issue Number: 1
Date Issued: 14/09/2020
Client: AEROLITE QUARRIES PTY LTD
 325 Old Boundary Road , ANAKIE VIC 3115
Contact: HAYDEN EDGAR
Project Number: GSSW576
Project Name: PRODUCT SUITABILITY TESTING
Project Location: ANAKIE
Work Request: 7671
Sample Number: 576-S34
Date Sampled: 07/09/2020
Dates Tested: 08/09/2020 - 11/09/2020
Sampling Method: Sampled by Client - Tested as Received
The results apply to the sample as received
Specification: 20mm Class 3 Crushed Rock as per RC 500.02
Sample Location: Stockpile
Material: 'B' Grade Basalt
Material Source: Aerolite Quarries Anakie

Ground Science South West Pty Ltd
 17 Dowsett Street South Geelong Vic 3220
 Phone: (03) 5282 1566
 Email: chrism@groundscience.com.au



Accredited for compliance with ISO/IEC 17025 - Testing

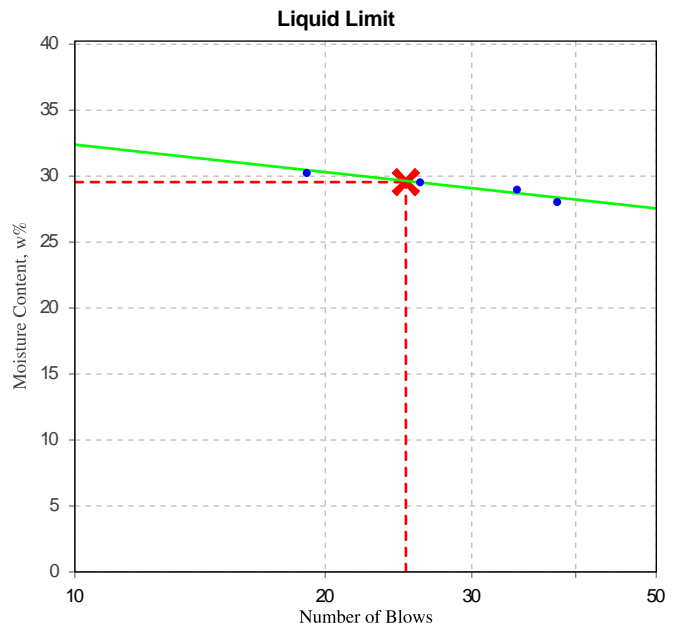
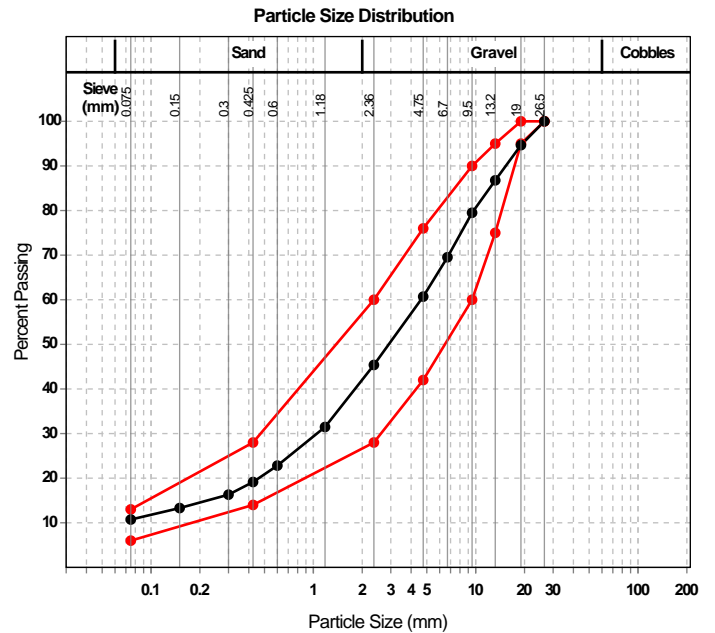
Approved Signatory: Chris Mamalis
 Laboratory Manager
 NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1141.11.1)					
Sample Washing	Sample was Washed				
	Sieve	Passed %	Passing Limits	Retained %	Retained Limits
26.5 mm	100	100	100	0	
19 mm	95	95	100	5	
13.2 mm	87	75	95	8	
9.5 mm	80	60	90	7	
6.7 mm	70			10	
4.75 mm	61	42	76	9	
2.36 mm	45	28	60	15	
1.18 mm	31			14	
0.6 mm	23			9	
0.425 mm	19	14	28	4	
0.3 mm	16			3	
0.15 mm	13			3	
0.075 mm	11	6	13	3	

Moisture Content (AS1289.2.1.6)	
Moisture Content (%)	9.7

Atterberg Limit (AS1289 3.1.1 & 3.2.1 & 3.3.1)		Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	30	0	35
Plastic Limit (%)	22		
Plasticity Index (%)	8	0	10

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.1		
Linear Shrinkage (%)	3.0		
Cracking Crumbling Curling	Cracking		



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Dry Density - Moisture Relationship (AS 1289 5.2.1 & 2.1.1)	
Mould Type	1 LITRE MOULD A
Compaction	Modified
Maximum Dry Density (t/m ³)	2.05
Optimum Moisture Content (%)	12.5
Oversize Sieve (mm)	19
Oversize Material Wet (%)	5
Method used to Determine Plasticity	Known Source
Curing Hours	24.9

Moisture Content (AS 1289 2.1.1)	
Moisture Content (%)	8.8

