VA ROCK PRODUCTS, INC.



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AGGREGATE SUBMITTAL

Report of Physical Properties

GRP Material Description:	Rock, Unwashed, 3/4"	Report Date:	August 1, 2023
GRP Material Code:	ROCD	Reviewed by:	Dan McDaniel
Source Location/Code:	588 - Morgan	Report No.	588ROCD00223

TEST RESULTS						
Standard	PHYS	IYSICAL PROPERTIES		Test Source		
ASTM C 29	Unit	Unit Weight, lbs./cu.ft. =	99			
AASHTO T19	Weight	Voids, % =	42			
		Jigged Loose	R			
ASTM D1557	Modified	Max. density, lbs./cu.ft. =				
AASHTO T180	Proctor	Optimum Moisture, % =				
ASTM D698	Standard	Max. density, lbs./cu.ft. =				
AASHTO T99	Proctor	Optimum Moisture, % =				
ASTM D4318	Liquid Limit	Liquid Limit=	0			
AASHTO T89/90	Plastic Limit	Plastic Limit=	0			
	Plasticity Index	Plasticity Index=	NP			
ASTM C131	L.A.	Small Coarse Loss, % =	27			
AASHTO T96	Abrasion	Grading/Revolutions, =	B/500			
ASTM C535	L.A.	Large Coarse Loss, % =				
	Abrasion	Grading/Revolutions, =				
	Fine	Bulk Specific Gravity (dry) =				
ASTM C 128	Specific	Bulk Specific Gravity, SSD =				
AASHTO T84	Gravity &	Apparent Specific Gravity =				
	Absorption	Absorption, % =				
	Coarse/Fine	Bulk Specific Gravity (dry) =	2.754			
ASTM C 127/128	Specific	Bulk Specific Gravity, SSD =	2.775			
AASHTO T84/85	Gravity &	Apparent Specific Gravity =	2.812			
	Absorption	Absorption, % =	0.8			
ASTM D2419	Sand	Sand Equivalent, % =				
AASHTO T176	Equivalent					
	Soundness	Coarse Soundness Loss, % =	1			
ASTM C 88		Sodium No. of Cycles =	5			
AASHTO T104	Soundness	Fine Soundness Loss, % =				
		Magnesium No. of Cycles =				
ASTM C 1252	Fine Aggregate	Uncompacted Voids, % =				
AASHTO T304	Angularity	Method C (as received material)				
ASTM C40	Organic	Coarse Aggregate, % =	Light	er Plate #1		
AASHTO T21	Impurities	Fine Aggregate, % =				
ASTM C142	Clay / Friable	Coarse Aggregate, % =	0			
AASHTO T112	Particles	Fine Aggregate, % =				
ASTM C123	Lightweight	Coarse Aggregate, % =	0			
AASHTO T113	Pieces	Fine Aggregate, % =				
ASTM D1883	CBR	Surcharge = 10 lbs CBR @ 0.1"=				
AASHTO T193		Swell% = 0.0% CBR @ 0.2"=				
ASTM D5821	Fractured Face	1 or 2 Faces = 1= 100				
		Fractured Face, % = 2= 99				
ASTM D2487	Soil Classification	Group Symbol =				
1		Crown Names -	—			

SIEVE ANALYSIS						
ASTM C136 AASHTO T27						
Sieve Size	% Passing	Spec.				
450 mm (18")						
375 mm (15")						
300 mm (12")						
250 mm (10")						
225 mm (9")						
200 mm (8")						
150 mm (6")						
125 mm (5")						
100 mm (4")						
75.0 mm (3")						
63.0 mm (2-1/2")						
50.0 mm (2")						
37.5 mm (1-1/2")						
25.0 mm (1")	100					
19.0 mm (3/4")	99					
12.5 mm (1/2")	47					
9.5 mm (3/8")	14					
6.3 mm (1/4")	8					
4.75 mm (No.4)	7					
2.36 mm (No.8)	5					
2.00 mm (No.10)						
1.18 mm (No.16)						
0.600 mm (No.30)						
0.425 mm (No.40)						
0.300 mm (No.50)						
0.180 mm (No.80)						
0.150 mm (No.100)						
0.075 mm (No.200)	2.8					
ASTM D422						
Hydrometer =						
ASTM C566 AASHTO T255						
Moisture Content, % =						
ASTM C136 AASHTO T27						
Fineness Modulus (FM) =						
AASHTO M145						
Classification of Soils =						
ASTM D4791 Ratio =						
Flat & Elongated =						
		-				
Flakiness = 23						

Soil Description &

Identification

ASTM D2488

Group Name =

Group Symbol =

Group Name =