GENEVA ROCK PRODUCTS, INC.
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AGGREGATE SUBMITTAL

Report of Physical Properties

GRP Material Description: Roadbase, 1 1/2" UDOT
GRP Material Code: GRAD
Source Location/Code: Perry / 590
Report Date: January 12, 2026
Reviewed by: Dan McDaniel
Report No. 590GRAD00126

TEST RESULTS

Standard	PHYSICAL PROPERTIES		Result	Test Source
ASTM C 29	**Unit**	Unit Weight, lbs./cu.ft. =	**123.0**	
AASHTO T19	**Weight**	Voids, % =	**26**	
		☐ Jigged ☐ Loose ☑ Rodded		
ASTM D1557	**Modified**	Max. density, lbs./cu.ft. =	**140.2**	
AASHTO T180	**Proctor**	Optimum Moisture, % =	**5.1**	
ASTM D698	**Standard**	Max. density, lbs./cu.ft. =	**136.7**	
AASHTO T99	**Proctor**	Optimum Moisture, % =	**5.8**	
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, % =	**26**	
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) =	**2.616**	
ASTM C 127/128	**Specific**	Bulk Specific Gravity, SSD =	**2.644**	
AASHTO T85/84	**Gravity &**	Apparent Specific Gravity =	**2.690**	
	Absorption	Absorption, % =	**1.1**	
ASTM D2419	**Sand**	Sand Equivalent, % =	**31**	
AASHTO T176	**Equivalent**			
	Soundness	Coarse Soundness Loss, % =		
ASTM C 88		Magnesium No. of Cycles =		
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, % =		
AASHTO T21	**Impurities**	Fine Aggregate, % =		
ASTM C142	**Clay / Friable**	Coarse Aggregate, % =		
AASHTO T112	**Particles**	Fine Aggregate, % =		
ASTM C123	**Lightweight**	Coarse Aggregate, % =		
AASHTO T113	**Pieces**	Fine Aggregate, % =		
ASTM D1883	**CBR**	Surcharge = 10 lbs CBR @ 0.1"=	**78**	
AASHTO T193		Swell% = 0.0% CBR @ 0.2"=	**103**	
ASTM D5821	**Fractured Face**	1 or 2 Faces =	**1**	**69**
		Fractured Face, % =	**2**	**54**

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")	**100**	
25.0 mm (1")	**91**	
19.0 mm (3/4")	**85**	
12.5 mm (1/2")	**75**	
9.5 mm (3/8")	**70**	
6.3 mm (1/4")		
4.75 mm (No.4)	**59**	
2.36 mm (No.8)	**43**	
2.00 mm (No.10)	**40**	
1.18 mm (No.16)	**32**	
0.600 mm (No.30)	**28**	
0.425 mm (No.40)	**23**	
0.300 mm (No.50)	**20**	
0.180 mm (No.80)		
0.150 mm (No.100)	**10**	
0.075 mm (No.200)	**8.1**	

ASTM D422 **Hydrometer =**						
ASTM C566 AASHTO T255 **Moisture Content, % =**						
ASTM C136 AASHTO T27 **Fineness Modulus (FM) =**						
AASHTO M145 **Classification of Soils =**	**A1A**					
ASTM D4791 Ratio =	**1:5**					
Flat & Elongated =	**0**					

AASHTO T-289	**pH of Soils**	8.5	**AASHTO T-236**	**Direct Shear**	**42.3 Degree**
AASHTO T 291	**Chlorides**	42.1ppm	**AASHTO T-267**	**Organic Content**	**0.36%**
AASHTO T-288	**Resistivity**	10170 Ohm*cm	**AASHTO T-88**	**Hydrometer**	**6**
AASHTO T-290	**Sulfates**				