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AGGREGATE SUBMITTAL

Report of Physical Properties

GRP Material Description: Rock, 1 1/2"	Report Date: June 3, 2023
GRP Material Code: ROCF	Reviewed by: Dan McDaniel
Source Location/Code: North Hansen / 527	Report No. 527ROCF00223

TEST RESULTS				
Standard	PHYS	SICAL PROPERTIES	Result	Test Spec.
ASTM C 29	Unit	Unit Weight, lbs./cu.ft. =	93	
AASHTO T19	Weight	Voids, % =	41	
	•	☐ Jigged ☐ Loose ✓ Rodded		
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=		
AASHTO T89/90	Plastic Limit	Plastic Limit=		
	Plasticity Index	Plasticity Index=		
ASTM C131	L.A.	Small Coarse Loss, % =		
AASHTO T96	Abrasion	Grading/Revolutions, =		
ASTM C535	L.A.	Large Coarse Loss, % =	24	
	Abrasion	Grading/Revolutions, =	3/1000	
	Fine	Bulk Specific Gravity (dry) =		
ASTM C 128	Specific	Bulk Specific Gravity, SSD =		
AASHTO T84	Gravity &	Apparent Specific Gravity =		
	Absorption	Absorption, % =		
	Coarse	Bulk Specific Gravity (dry) =	2.583	
ASTM C 127	Specific	Bulk Specific Gravity, SSD =	2.610	
AASHTO T85	Gravity &	Apparent Specific Gravity =	2.653	
	Absorption	Absorption, % =	1.0	
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, % =		
		Sodium No. of Cycles =		
ASTM C 1252	Fine Aggregate	Uncompacted Voids, % =		
AASHTO T304	Angularity	Method C (as received material)		
ASTM C40	Organic	Coarse Aggregate, % =	0.0	
AASHTO T21	Impurities	Fine Aggregate, % =		
ASTM C142	Clay / Friable	Coarse Aggregate, % =	0.0	
AASHTO T112	Particles	Fine Aggregate, % =		
ASTM C123	Lightweight	Coarse Aggregate, % =	0.0	
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	2=98
		Fractured Face, % =	3=92	
AASHTO T288	Resistivity	10300chm-cm		
İ			1	

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")	100				
37.5 mm (1-1/2")	98				
25.0 mm (1")	23				
19.0 mm (3/4")	4				
12.5 mm (1/2")	2				
9.5 mm (3/8")	1				
6.3 mm (1/4")					
4.75 mm (No.4)					
2.36 mm (No.8)					
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)	0.7				
ASTM D422					
Hydrometer =					
ASTM C566 AASHTO T255					
Moisture Content, % =					
ASTM C136 AASHTO T27					
Fineness Modulus (FM) =					
AASHTO M145					
Classification of Soils =					
ASTM D4791 Ratio =	5:1				
Flat & Elongated, % =	0.0				

NOTES: ROCF is a Quartzite material from the POM Pit.