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AGGREGATE SUBMITTAL

Report of Physical Properties

GRP Material Description: Rock, unwashed 1.5	Report Date: February 13, 2023
GRP Material Code: ROCF	Reviewed by: Dan McDaniel
Source Location/Code: 588 - Morgan	Report No. 588RK5100123

		TEST RESULTS			
Standard	PHYSICAL PROPERTIES		Result	Test Source	
ASTM C 29	Unit	Unit Weight, lbs./cu.ft. =	97		S
AASHTO T19	Weight	Voids, % =	44		45
		Jigged Loose	R		37
ASTM D1557	Modified	Max. density, lbs./cu.ft. =			30
AASHTO T180	Proctor	Optimum Moisture, % =			25
ASTM D698	Standard	Max. density, lbs./cu.ft. =			22
AASHTO T99	Proctor	Optimum Moisture, % =			20
ASTM D4318	Liquid Limit	Liquid Limit=	0		15
AASHTO T89/90	Plastic Limit	Plastic Limit=	0		12
	Plasticity Index	Plasticity Index=	NP		10
ASTM C131	L.A.	Small Coarse Loss, % =	24		75
AASHTO T96	Abrasion	Grading/Revolutions, =	B/500		63.0
ASTM C535	L.A.	Large Coarse Loss, % =			50
	Abrasion	Grading/Revolutions, =			37.5
	Fine	Bulk Specific Gravity (dry) =			25
ASTM C 128	Specific	Bulk Specific Gravity, SSD =			19.
AASHTO T84	Gravity &	Apparent Specific Gravity =			12.
	Absorption	Absorption, % =			9.5
	Coarse/Fine	Bulk Specific Gravity (dry) =	2.721		6.3
ASTM C 127/128	Specific	Bulk Specific Gravity, SSD =	2.750		4.7
AASHTO T84/85	Gravity &	Apparent Specific Gravity =	2.802		2.30
	Absorption	Absorption, % =	1.1		2.00
ASTM D2419	Sand	Sand Equivalent, % =			1.18
AASHTO T176	Equivalent				0.600
	Soundness	Coarse Soundness Loss, % =	1		0.42
ASTM C 88		Sodium No. of Cycles =	5		0.300
AASHTO T104	Soundness	Fine Soundness Loss, % =			0.180
		Magnesium No. of Cycles =			0.150
ASTM C 1252	Fine Aggregate	Uncompacted Voids, % =			0.075
AASHTO T304	Angularity	Method C (as received material)			ASTM D
ASTM C40	Organic	Coarse Aggregate, % =	Light	er Plate #1	i I
AASHTO T21	Impurities	Fine Aggregate, % =			ASTM C56
ASTM C142	Clay / Friable	Coarse Aggregate, % =			Moist
AASHTO T112	Particles	Fine Aggregate, % =	0		ASTM C13
ASTM C123	Lightweight	Coarse Aggregate, % =			Fineness
AASHTO T113	Pieces	Fine Aggregate, % =	0		AASHTO N
ASTM D1883	CBR	Surcharge = 10 lbs CBR @ 0.1"=			Classif
AASHTO T193		Swell% = 0.0% CBR @ 0.2"=			ASTM D4
ASTM D5821	Fractured Face	1 or 2 Faces =	1= 100		FI
			2= 99		<u> </u>
ASTM D2487	Soil Classification	Group Symbol =			
- '		Group Name =			
ASTM D2488	Soil Description &	Group Symbol =			
1		2.22p 2jboi	-		

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")	99						
100 mm (4")	76						
75.0 mm (3")	43						
63.0 mm (2-1/2")							
50.0 mm (2")	28						
37.5 mm (1-1/2")	12						
25.0 mm (1")	2						
19.0 mm (3/4")							
12.5 mm (1/2")							
9.5 mm (3/8")							
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)	0.9						
ASTM D422							
Hydrometer =							
ASTM C566 AASHTO T255							
Moisture Content, % =	3						
ASTM C136 AASHTO T27							
Fineness Modulus (FM) =							
AASHTO M145							
Classification of Soils =							
ASTM D4791 Ratio =	5to1						
Flat & Elongated =	0						

Identification

Group Name =