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AGGREGATE SUBMITTAL

Report of Physical Properties

GRP Material Description: Rock, unwashed 1"

Report Date: August 1, 2023

GRP Material Code: ROCE

Reviewed by: Dan McDaniel

Source Location/Code: 588 - Morgan

Report No. 588ROCE00223

_		TEST RESULTS	1		
Standard		ICAL PROPERTIES	Result	Test Source	AST
ASTM C 29	Unit	Unit Weight, lbs./cu.ft. =	99		Sieve
AASHTO T19	Weight	Voids, % =	43		450 m
		Jigged	R		375 m
ASTM D1557	Modified	Max. density, lbs./cu.ft. =			300 m
AASHTO T180	Proctor	Optimum Moisture, % =			250 m
ASTM D698	Standard	Max. density, lbs./cu.ft. =			225 m
AASHTO T99	Proctor	Optimum Moisture, % =			200 m
ASTM D4318	Liquid Limit	Liquid Limit=	0		150 m
AASHTO T89/90	Plastic Limit	Plastic Limit=	0		125 m
	Plasticity Index	Plasticity Index=	NP		100 m
ASTM C131	L.A.	Small Coarse Loss, % =	28		75.0 n
AASHTO T96	Abrasion	Grading/Revolutions, =	B/500		63.0 mn
ASTM C535	L.A.	Large Coarse Loss, % =			50.0 m
	Abrasion	Grading/Revolutions, =			37.5 mm
	Fine	Bulk Specific Gravity (dry) =			25.0 n
ASTM C 128	Specific	Bulk Specific Gravity, SSD =			19.0 mi
AASHTO T84	Gravity &	Apparent Specific Gravity =			12.5 m
	Absorption	Absorption, % =			9.5 mr
	Coarse/Fine	Bulk Specific Gravity (dry) =	2.730		6.3 mr
ASTM C 127/128	Specific	Bulk Specific Gravity, SSD =	2.756		4.75 mr
AASHTO T84/85	Gravity &	Apparent Specific Gravity =	2.803		2.36 mr
	Absorption	Absorption, % =	0.9		2.00 mn
ASTM D2419	Sand	Sand Equivalent, % =			1.18 mm
AASHTO T176	Equivalent	• •			0.600 mr
	Soundness	Coarse Soundness Loss, % =			
ASTM C 88		Sodium No. of Cycles =	5		0.300 mr
AASHTO T104	Soundness	Fine Soundness Loss, % =	-		0.180 mr
		Magnesium No. of Cycles =			0.150 mm
ASTM C 1252	Fine Aggregate	Uncompacted Voids, % =			0.075 mn
AASHTO T304	Angularity	Method C (as received material)			ASTM D422
ASTM C40	Organic	Coarse Aggregate, % =	Liaht	er Plate #1	
AASHTO T21	Impurities	Fine Aggregate, % =			ASTM C566 A
ASTM C142	Clay / Friable	Coarse Aggregate, % =			Moisture
AASHTO T112	Particles	Fine Aggregate, % =	0		ASTM C136 AA
ASTM C123	Lightweight	Coarse Aggregate, % =	, v		Fineness Mo
AASHTO T113	Pieces	Fine Aggregate, % =	0		AASHTO M145
ASTM D1883	CBR	Surcharge = 10 lbs CBR @ 0.1"=	-		Classificat
ASHTO T193	CBK	Swell% = 0.0% CBR @ 0.2"=			ASTM D4791
ASTM D5821	Fractured Face	1 or 2 Faces =	1- 100		Flat 8
	Fractured Face	Fractured Face, % =			
ASTM D2487			2- 33		
	Soil Classification	Group Symbol =			
		Group Name =			
ASTM D2488	Soil Description &	Group Symbol =			
	Identification	Group Name =			

SIEVE ANAL	YSIS				
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")	74				
12.5 mm (1/2")	22				
9.5 mm (3/8")	6				
6.3 mm (1/4")					
4.75 mm (No.4)	4				
2.36 mm (No.8)	3				
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)	1.5				
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 =	1.5				