



TABLE 1
SUMMARY OF LABORATORY TEST RESULTS
COLORADO SPRINGS PIT

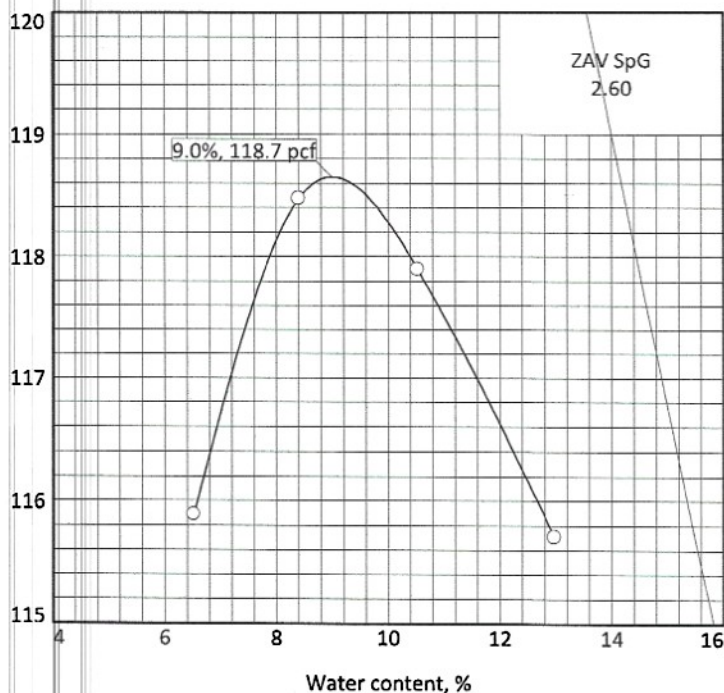
PROJECT NO.: 23-1-246
PROJECT NAME: 2023 COLORADO AGGREGATE RECYCLING LABORATORY TESTING
DATE RECEIVED: 3/15/2023

SAMPLE NO.	DATE TESTED	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE CONTENT (%)	GRADATION		PERCENT PASSING No. 200 SIEVE	ATTERBERG LIMITS		R-VALUE @ 300 PSI	LOS ANGELES ABRASION (ASTM C-131)		SOIL OR BEDROCK TYPE
				GRAVEL (%)	SAND (%)		LIQUID LIMIT (%)	PLASTICITY INDEX (%)		GRADING	PERCENT LOSS (%)	
2593	3/20/23	118.7	9.0	58	35	7	22	NP	80	B	41	WELL-GRADED GRAVEL WITH SILT AND SAND (RECYCLED CONCRETE)
2594	3/16/23	122.8	7.2	61	36	3	-	-	-	-	-	WELL-GRADED GRAVEL WITH SAND (RECYCLED ASPHALT)

These test results apply only to the samples which were tested. the testing report shall not be reproduced, except in full, without the written approval of K & A, Inc

COMPACTION TEST REPORT

Curve No. 2593



Preparation Method

Rammer: Wt. 10 lb. Drop 18 in.

Type Manual

Layers: No. five Blows per 56

Mold Size 0.075 cu. ft.

Test Performed on Material

Passing 3/4 in. Sieve

%>3/4 in. 0 %<No.200 6.7

Atterberg (D 4318): LL 22 PI NP

NM (D 2216) Sp.G. (D 854) 2.6

USCS (D 2487) GW-GM

AASHTO (M 145) A-1-a

Date: Sampled 3/15/23

Received 3/15/23

Tested 3/20/23

Tested By WP

COMPACTION TESTING DATA ASTM D 1557-12 Method C Modified

	1	2	3	4	5	6
WM + WS	10689.0	10859.0	10923.0	10937.0		
WM	6484.0	6484.0	6484.0	6484.0		
WW + T #1	761.6	510.5	696.3	778.8		
WD + T #1	733.6	482.6	645.4	714.3		
TARE #1	304.2	150.6	162.0	217.3		
WW + T #2						
WD + T #2						
TARE #2						
MOIST.	6.5	8.4	10.5	13.0		
DRY DENS.	115.9	118.5	117.9	115.7		

SIEVE TEST RESULTS

Opening Size	% Passing	Specs.
1-1/2"	100	
1"	100	
3/4"	100	100
3/8"	60	
#4	42	30-65
#8	34	25-55
#16	26	
#30	20	
#50	14	
#100	9	
#200	6.7	3-12

TEST RESULTS

Maximum dry density = 118.7 pcf

Optimum moisture = 9.0 %

Project No. 23-1-248 Client:

Project: 2023 Colorado Aggregate Recycling Lab Testing

Loc.: ABC Class 6 Recycled Concrete Pile - Colorado Springs Pit

Kumar & Associates, Inc.

Denver, Colorado

Material Description

well-graded gravel with silt and sand

Remarks:

Checked by: JJM

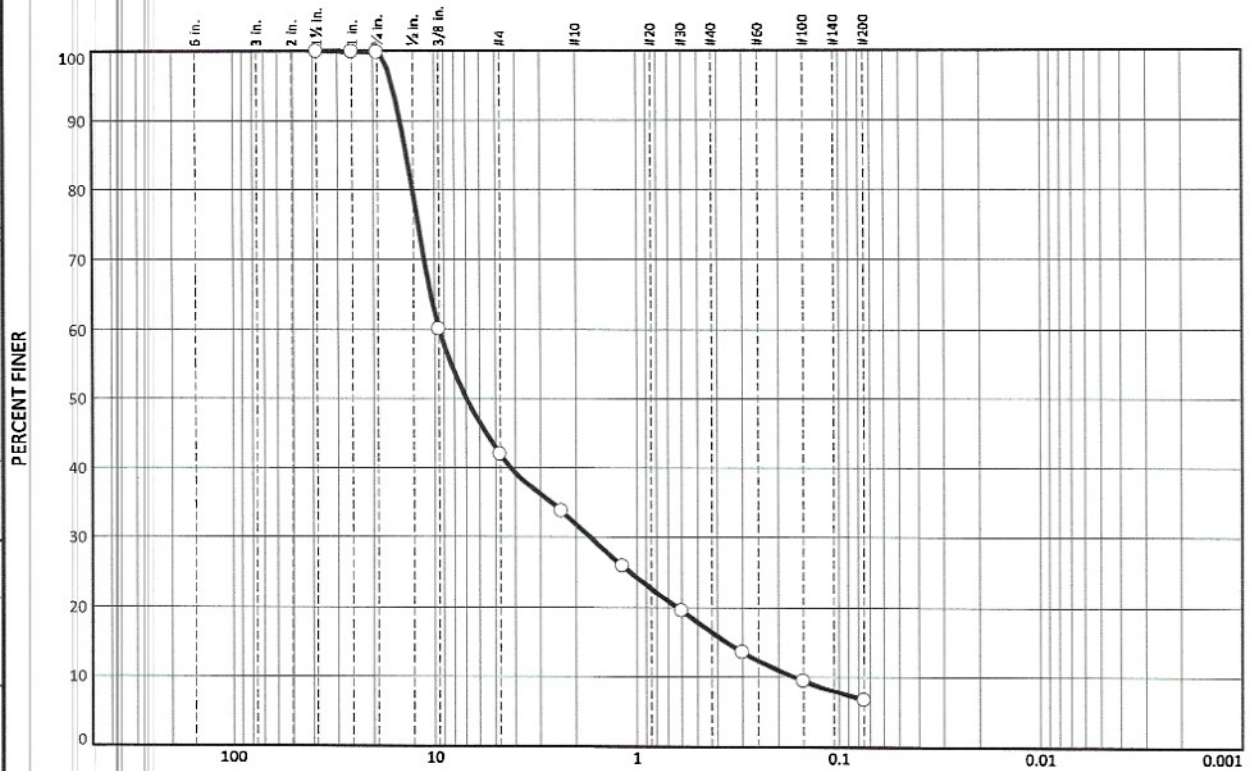
Title: Lab Manager

Figure

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Particle Size Distribution Report

ASTM D422



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	58	10	16	9	7	

Test Results (ASTM D422)				
Sieve Size or Diam. (mm.)	Finer (%)	Spec. * (%)	Out of Spec. (%)	Pct. of Fines
1-1/2"	100			
1"	100			
3/4"	100	100		
3/8"	60			
#4	42	30-65		
#8	34	25-55		80
#16	26			62
#30	20			47
#50	14			32
#100	9			22
#200	6.7	3-12		16

* ASTM Class 6 ABC

Material Description
well-graded gravel with silt and sand

Atterberg Limits
PL= 28 LL= 22 PI= NP

Classification
USCS= GW-GM AASHTO= A-1-a

Test Remarks

Location: ABC Class 6 Recycled Concrete Pile - Colorado Springs Pit
Sample Number: 2593

Sample Date: 3/15/23

Kumar & Associates, Inc.

Denver, Colorado

Client:

Project: 2023 Colorado Aggregate Recycling Lab Testing

Project No: 23-1-248

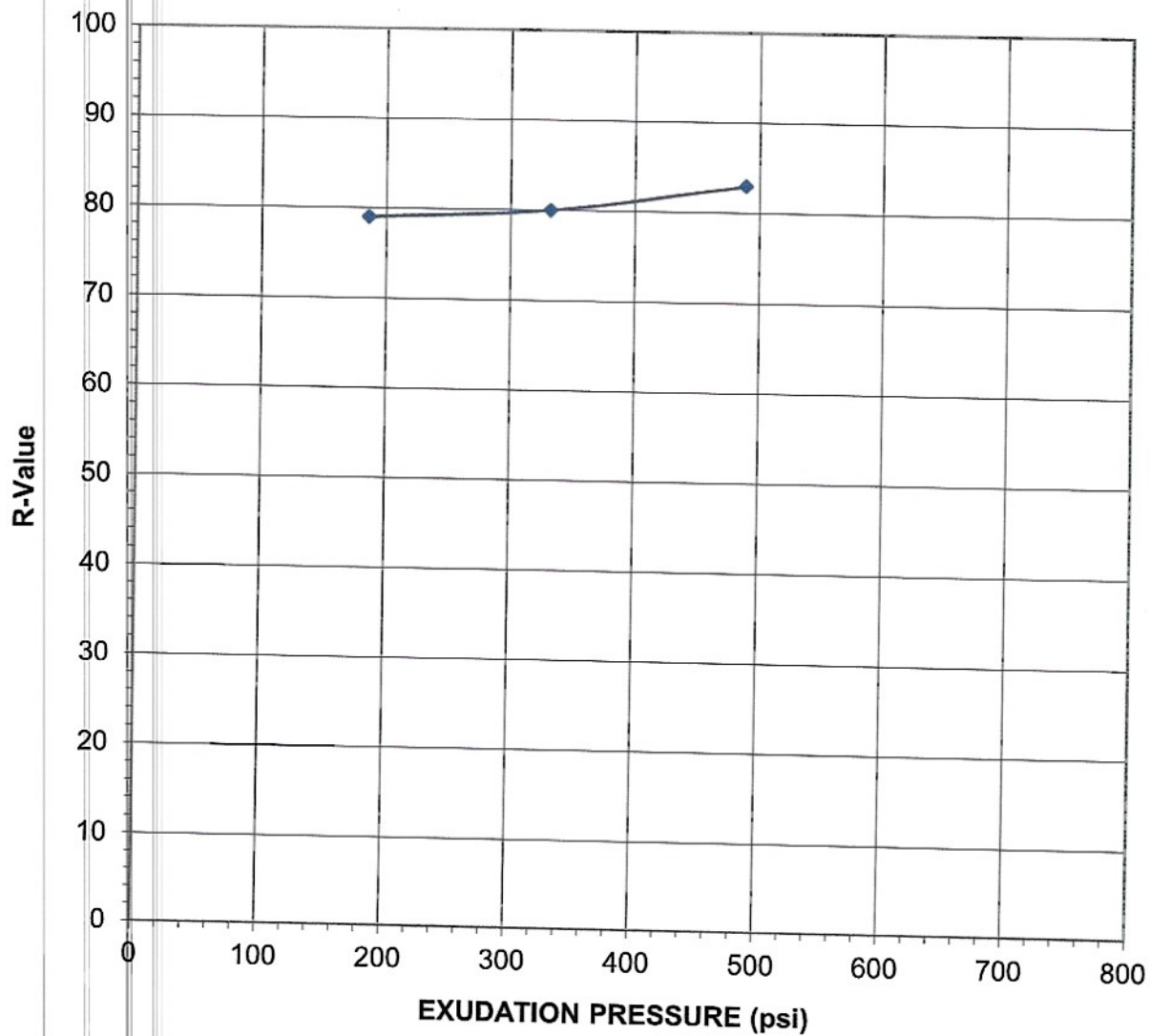
Figure

Tested By: HS

Checked By: JJM

R-VALUE

TEST SPECIMEN	1	2	3	4	R-VALUE (300 psi)
MOISTURE CONTENT (%)	10.4	10.8	11.3		80
DENSITY (pcf)	113.2	115.7	116.6		
EXPANSION PRESSURE (psi)	0.000	0.000	0.000		
EXUDATION PRESSURE (psi)	489	332	186		
R-VALUE	83	80	79		



SOIL TYPE: Well-Graded Gravel with Silt and Sand (Recycled Concrete)

LOCATION: Colorado Springs Pit - ABC Class 6

DATE SAMPLED: 3/15/2023

DATE RECEIVED: 3/15/2023

DATE TESTED: 3/20/2023

GRAVEL: 58

SAND: 35

SILT AND CLAY: 7

LIQUID LIMIT: 22

PLASTICITY INDEX: NP

These test results apply to the samples which were tested. The testing report shall not be reproduced, except in full, without the written approval of Kumar & Associates, Inc. R-value performed in accordance with ASTM D2844. Atterberg limits performed in accordance with ASTM D4318. Sieve analyses performed in accordance with ASTM D422, D1140

23-1-248

KUMAR & ASSOCIATES

HVEEM STABILOMETER TEST RESULTS

2593