



Kumar & Associates, Inc.
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TABLE 1
SUMMARY OF LABORATORY TEST RESULTS
GOLDEN PIT

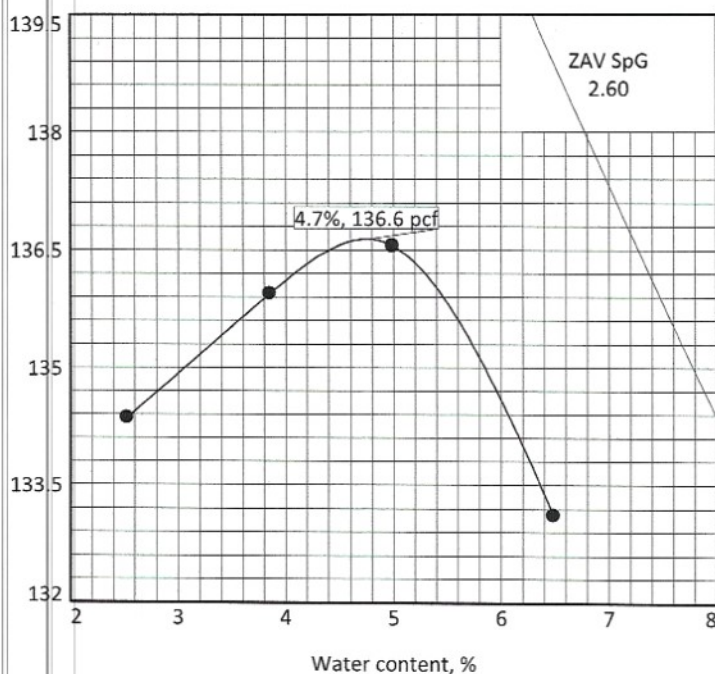
PROJECT NO.: 23-1-246
PROJECT NAME: 2023 COLORADO AGGREGATE RECYCLING LABORATORY TESTING
DATE RECEIVED: 3/20/2023

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		SOIL OR BEDROCK TYPE
				GRAVEL (%)	SAND (%)		LIQUID LIMIT (%)	PLASTICITY INDEX (%)		GRADING	PERCENT LOSS (%)	
2598	4/2/23	115.4	10.0	43	50	7	28	1	81	B	39	WELL-GRADED SAND WITH SILT AND GRAVEL (RECYCLED CONCRETE)
2599	3/21/23	136.6	4.7	31	65	4	-	-	-	-	-	WELL-GRADED SAND WITH GRAVEL (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. 2599



Preparation Method _____	
Rammer: Wt. <u>10 lb.</u>	Drop <u>18 in.</u>
Type <u>Manual</u>	
Layers: No. <u>five</u>	Blows per <u>25</u>
Mold Size <u>0.03333 cu. ft.</u>	
Test Performed on Material	
Passing <u>#4</u>	Sieve _____
%>#4 <u>31</u>	%<No.200 <u>4.5</u>
Atterberg (D 4318): LL <u>NV</u>	PI <u>NP</u>
NM (D 2216) _____	Sp.G. (D 854) <u>2.6</u>
USCS (D 2487) <u>SW</u>	
AASHTO (M 145) <u>A-1-a</u>	
Date: Sampled <u>3/20/23</u>	
Received <u>3/20/23</u>	
Tested <u>3/21/23</u>	
Tested By <u>DN</u>	

COMPACTION TESTING DATA
 AASHTO T 180-15 Method A Modified
 AASHTO T 224-01 Oversize Corr. Applied to Each Test Point

	1	2	3	4	5	6
WM + WS	6326.0	6394.0	6438.0	6409.0		
WM	4376.0	4376.0	4376.0	4376.0		
WW + T #1	701.4	830.6	864.5	647.6		
WD + T #1	684.6	804.8	823.4	606.8		
TARE #1	162.5	302.4	217.5	150.9		
WW + T #2						
WD + T #2						
TARE #2						
MOIST.	2.5	3.9	5.0	6.5		
DRY DENS.	134.4	135.9	136.5	133.1		

SIEVE TEST RESULTS

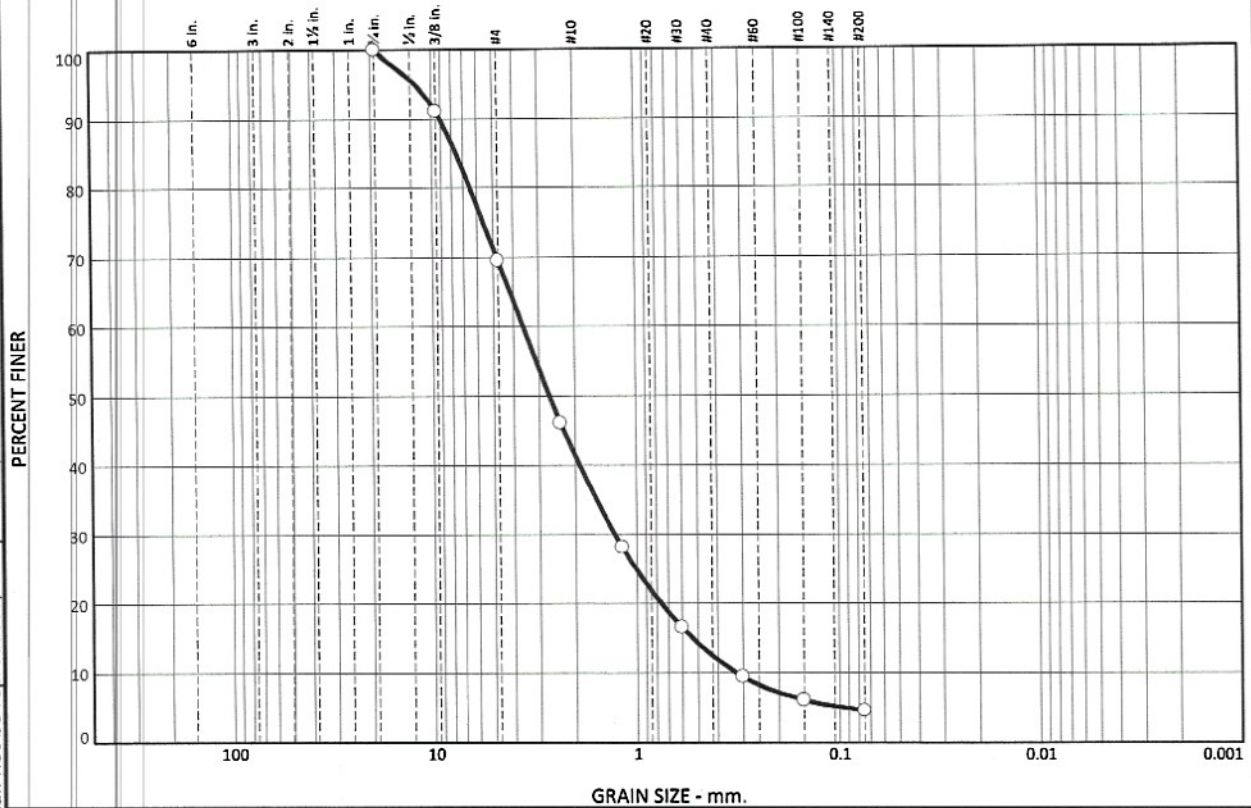
Opening Size	% Passing	Specs.
3/4"	100	
3/8"	91	
#4	69	
#8	46	
#16	28	
#30	17	
#50	9	
#100	6	
#200	4.5	

ROCK CORRECTED TEST RESULTS	UNCORRECTED	Material Description
Maximum dry density = 136.6 pcf	127.6 pcf	well-graded sand with gravel
Optimum moisture = 4.7 %	6.4 %	
Project No. <u>23-1-248</u> Client: <u>Colorado Aggregate Recycling</u> Project: <u>2023 Colorado Aggregate Recycling Lab Testing</u>		Remarks:
<input type="checkbox"/> Location: <u>Recycled Asphalt Pile - Golden Pit</u> Sample Number: <u>2599</u>		Checked by: <u>JJM</u>
Kumar & Associates, Inc.		Title: <u>Lab Manager</u>
Denver, Colorado		Figure

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Particle Size Distribution Report

AASHTO T 27 & T 11



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	31	28	29	8	4	

Test Results (AASHTO T 27 & T 11)				
Sieve Size or Diam. (mm.)	Finer (%)	Spec. * (%)	Out of Spec. (%)	Pct. of Fines
3/4"	100			
3/8"	91			
#4	69			
#8	46			66
#16	28			41
#30	17			24
#50	9			14
#100	6			9
#200	4.5			6.5

Material Description
well-graded sand with gravel

Atterberg Limits
 PL= NP LL= NV PI= NP

Classification
 USCS= SW AASHTO= A-1-a

Test Remarks

* (no specification provided)

Location: Recycled Asphalt Pile - Golden Pit
 Sample Number: 2599

Sample Date: 3/20/23

Kumar & Associates, Inc.
 Denver, Colorado

Client: Colorado Aggregate Recycling
 Project: 2023 Colorado Aggregate Recycling Lab Testing
 Project No: 23-1-248

Figure

Tested By: DN

Checked By: JJM