



December 19, 2017

PL-02667-01

Recycled Aggregate Materials Company  
3713 Alamo Street  
Simi Valley, California 93063

Attention: Mr. Dallas Jones

Subject: **Laboratory Test Results**  
Caltrans Section 26 Class 2 Aggregate Base  
Recycled Aggregate Materials Company  
9005 Bradley Avenue  
Sun Valley, California

This report presents the results of laboratory tests performed on one (1) sample of Caltrans Section 26 Class 2 Aggregate Base from the above referenced project. The sample was delivered to our laboratory on November 8, 2017. Per your request the following tests were performed;

- A) Sieve Analysis (Caltest 202)
- B) Sand Equivalent (Caltest 217)
- C) Durability Index (Caltest 229)
- D) Resistance/R-Value (Caltest 301)
- E) Los Angeles Abrasion (ASTM C-131)
- F) Maximum Density – Optimum Moisture (ASTM D-1557)

The laboratory test results are attached. We trust this report meets your current needs. If you have any questions please contact us.

The Material Tested  met  did not meet the requirements of Caltrans Standard Specifications, 2015 edition Section 26-1.02B Class 2, ¾ inch Maximum Aggregate Base.

Respectfully submitted,

Earth Systems  
Southern California

Jim Tomkins  
Project Engineer  
P. E. #82397



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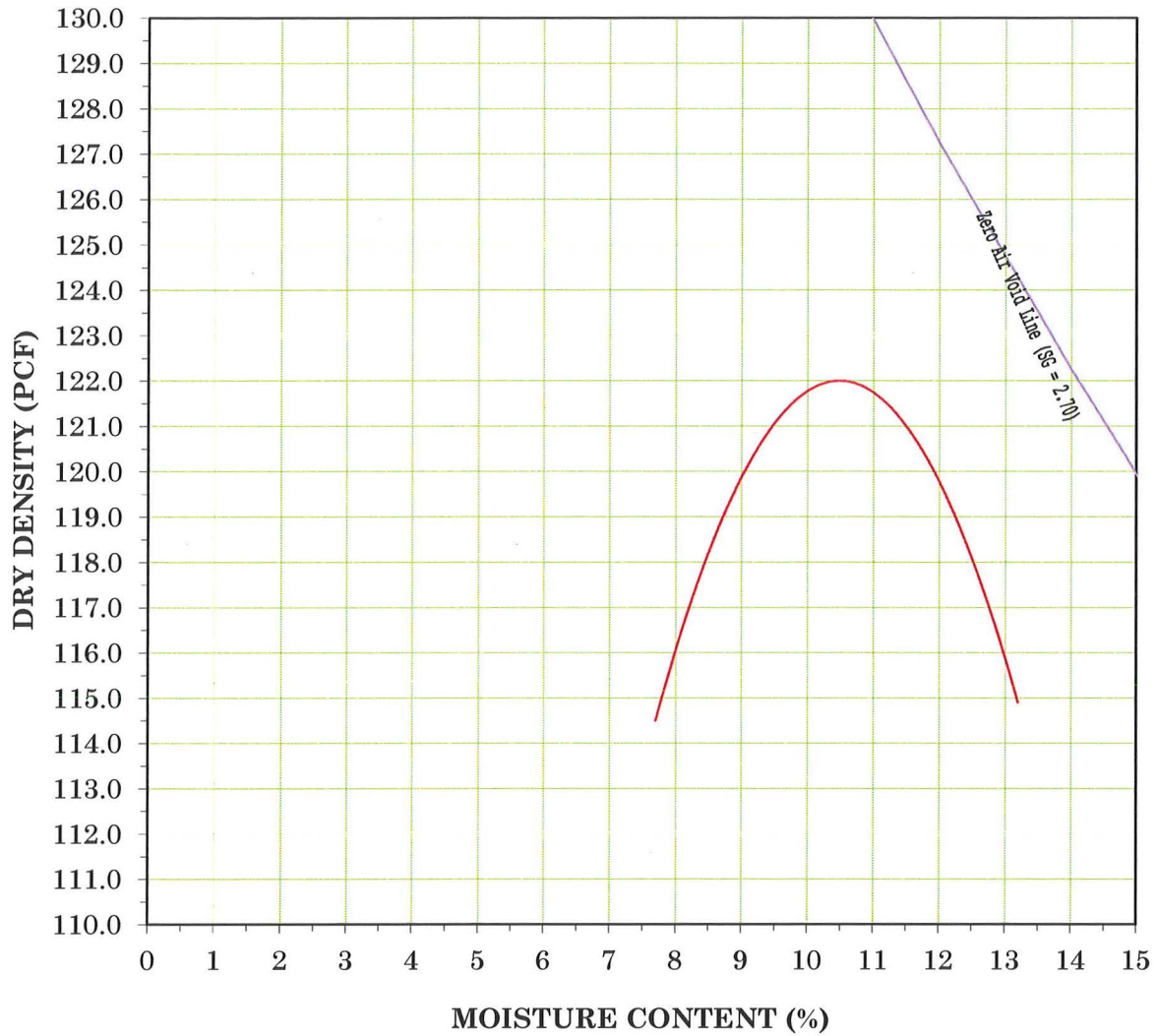


**Summary of Laboratory Test Results**  
**Caltrans Standard Specifications**  
**Section 26 Class 2 Aggregate Base**  
**Recycled Aggregate Materials Company - Sun Valley, California**  
**Delivered on November 8, 2017**

E) **Maximum Density – Optimum Moisture** (ASTM D-1557)

<u>Sample Description</u>	<u>Maximum Density</u>	<u>Optimum Moisture</u>
Class II Aggregate Base*	122.0 PCF	10.5 %

\*Note: This product contains crushed recycled asphalt concrete. A bias is required for all nuclear density tests to adjust the tested dry density results to reflect actual in-place densities.



**Maximum Density - Optimum Moisture Characteristics\***


Sample Location: Sample Delivered on November 8, 2017

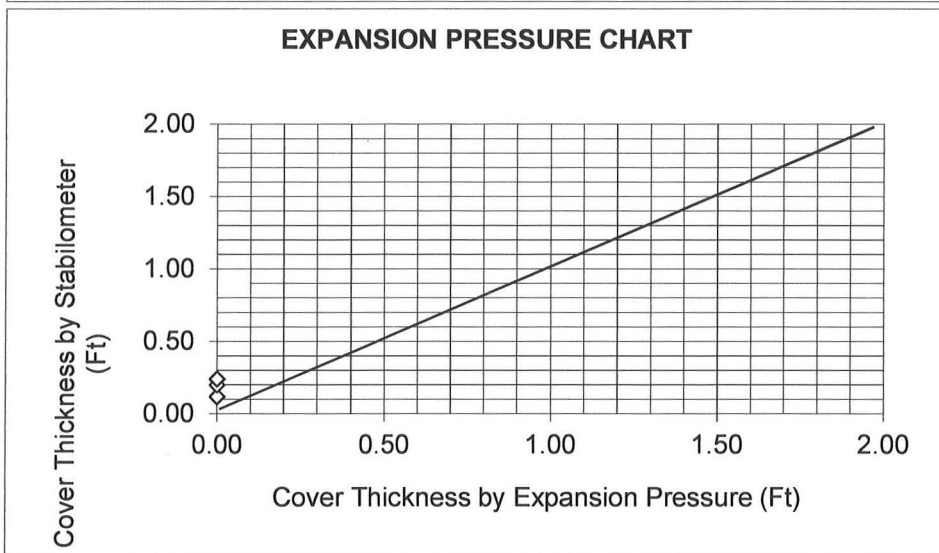
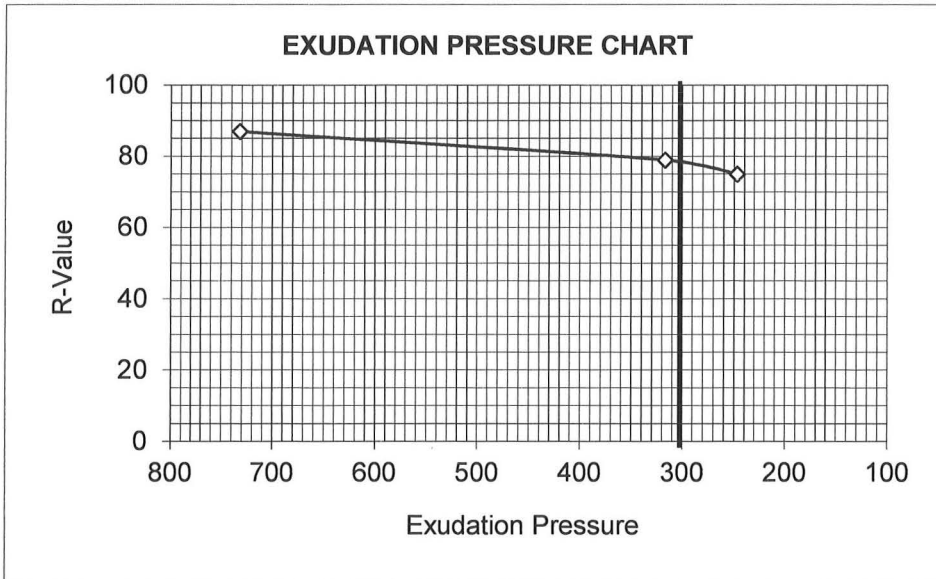
Material: Caltrans Class 2 Aggregate Base

Maximum Density (pcf): 122.0

Optimum Moisture: 10.5%

\* Test Method: ASTM D-1557

<b>MAXIMUM DENSITY - OPTIMUM MOISTURE</b>	
<b>RAMCO - Sun Valley</b>	
<b>Sun Valley, California</b>	
 <b>Earth Systems Southern California</b>	
12/19/2017	PL-02667-01



**JOB NAME:** RAMCO - Sun Valley  
**SAMPLE I. D.:** Sample Delivered on November 8, 2017  
**SOIL DESCRIPTION:** Caltrans Class 2 Aggregate Base

SPECIMEN NUMBER	A	B	C
EXUDATION PRESSURE	732	317	247
RESISTANCE VALUE	87	79	75
EXPANSION DIAL(0.0001")	0	0	0
EXPANSION PRESSURE (PSF)	0.0	0.0	0.0
% MOISTURE AT TEST	12.6	13.2	13.4
DRY DENSITY AT TEST	114.2	108.0	107.6

R-VALUE @ 300 PSI EXUDATION	78
R-VALUE by Expansion Pressure*	100

\*Based on a Traffic Index of 5.0 and a Gravel Factor of 1.70