

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
MATERIALS ENGINEERING AND TESTING SERVICES
TRANSPORTATION LABORATORY—MS 5
5900 FOLSOM BOULEVARD, ROOM 101
SACRAMENTO, CA 95819-4612
PHONE: (916) 227-7254
FAX: (916) 227-5295
TTY: 711



*Flex your power!
Be energy efficient!*

March 24, 2008

Mr. Thomas R. Tietz
Executive Director
California Nevada Cement Association
24657 Via Melinda
Yorba Linda, CA 92887

Mr. Brian A. McCarthy
President and Chief Executive Officer
Portland Cement Association
5420 Old Orchard Road
Skokie, IL 60077

Dear Mr. Tietz and Mr. McCarthy:

The California Department of Transportation (Caltrans) report, "Use of Raw Limestone in Portland Cement," is complete through 90 days of testing. Cooperation between Caltrans, the California Nevada Cement Association, and the Portland Cement Association resulted in this significant study and report.

The study sought to find the statistically significant impacts of raw limestone on the properties of strength, permeability, and shrinkage on Type II cement with 25 percent Class F fly ash. The testing will continue to collect 2-year data, but the results for 90 days were sufficient for Caltrans to make the determination to accept up to 5 percent raw limestone interground into cement.

The findings show that for Type II cement with less than 5 percent raw limestone, at 90 days, there is a gain in strength, a reduction in permeability, and a slight increase in shrinkage. Over the coming weeks, Materials Engineering and Testing Services will develop a system of specifications and tests to accept ASTM Standard C 150, "Standard Specification for Portland Cement," and route these to Caltrans employees and industry partners for review and comment.

Should you have any questions or comments about this report, please contact Tom Pyle, of my staff, at (916) 813-0285 or by e-mail sent to <tom_pyle@dot.ca.gov>.

Sincerely,

A handwritten signature in black ink that reads "Philip J. Stolarski".

PHILIP J. STOLARSKI
State Materials Engineer
Deputy Division Chief
Materials Engineering and Testing Services
Division of Engineering Services

Enclosure

Mr. Thomas R. Tietz and Mr. Brian A. McCarthy

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- c: Richard D. Land, Chief Engineer
- Robert Pieplow, Chief, Division of Engineering Services
- Gene Mallette, State Pavement Program Manager
- Pavement Standards Team
- District Materials Engineers
- John Melander, Director of Product Standards and Technology,
Portland Cement Association
- Dan Chapman, Division Technical Support Manager,
Vulcan Materials Company—Western Division