

6980 Sierra Center Parkway, Suite 90
Reno, NV 89511

March 25, 2013
Revision 1
File: 1009

Mr. Chris Benna
RILITE AGGREGATES
3025 Mill Street
Reno, NV 89502

RE: Rilite Pit - S.P.P.Co. Sand

Dear Mr. Benna:

Per your request, we have performed aggregate quality testing on the sample of Rilite Pit S.P.P.Co. sand delivered to our laboratory on February 7th. Test results in comparison with Sierra Pacific bedding sand specifications are as follows:

Sieve Size Analysis (ASTM C136/C117)		
U.S. Standard Sieve Size	Percent By Weight Passing	
	S.P.P.Co. Sand	S.P.P.Co. Specifications
¾ Inch	100	100
No. 4	100	90 - 100
No. 8	91	-
No. 16	68	-
No. 30	50	-
No. 50	33	10 - 40
No. 100	20	3 - 20
No. 200	11.7	0 - 15

Plasticity Index (D4318)	
S.P.P.Co. Sand	S.P.P.Co. Specification
Nonplastic	Nonplastic

Angularity (ASTM D2488)		
	S.P.P.Co. Sand	S.P.P.Co. Specification
Angular	0.0%	30% Maximum
Subangular	0.0%	Acceptable
Subrounded	0.0%	Acceptable
Rounded	0.0%	Acceptable

Sand Equivalent (ASTM D2419)	
S.P.P.Co. Sand	S.P.P.Co. Specification
52	25 Minimum

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Moisture Density (ASTM D1557A)	
Maximum Dry Density	110.7 pcf
Optimum Moisture	15.6%

We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.

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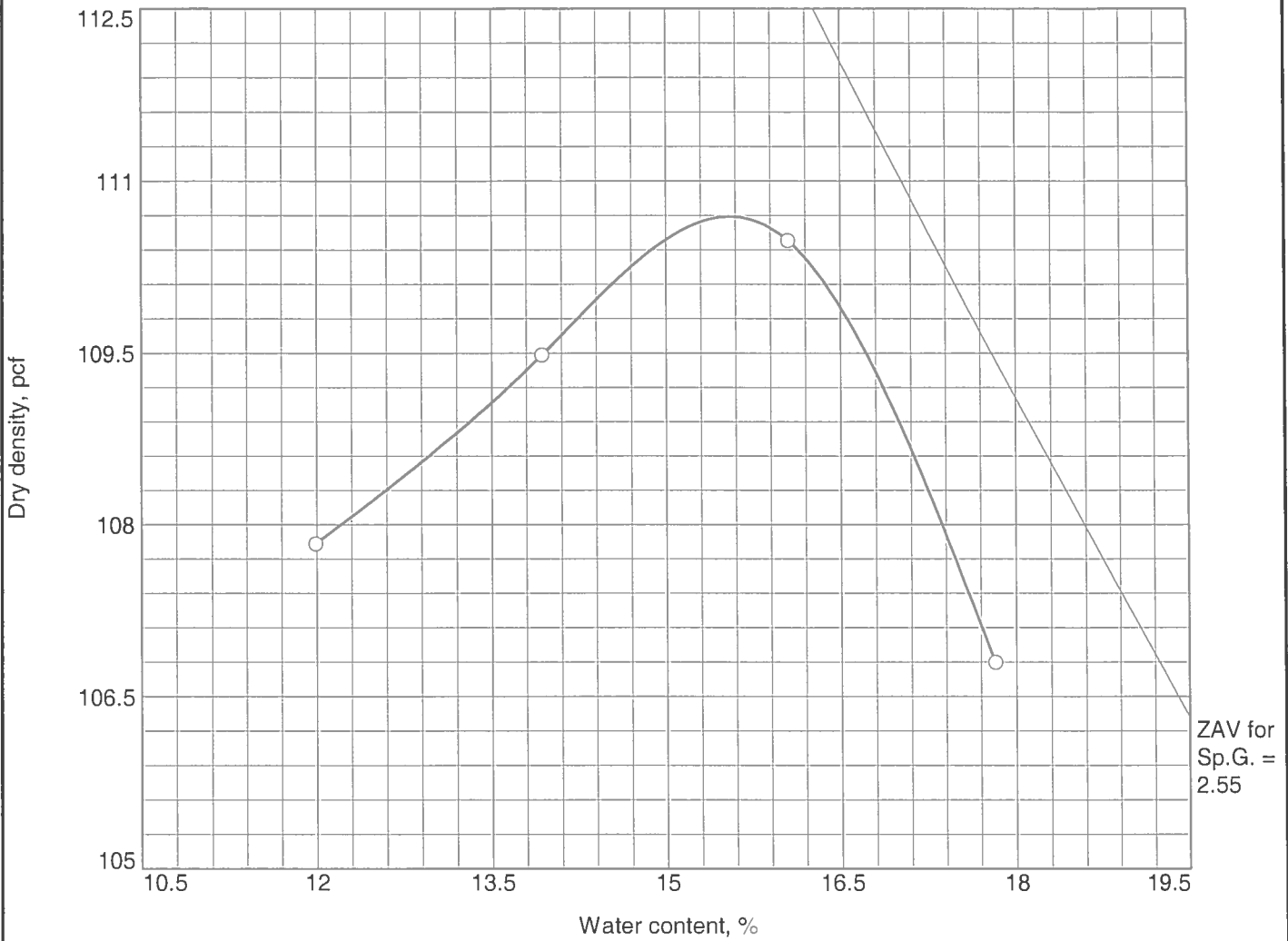
Jon A. Del Santo, P.E.
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SLV:JAD:jy
Enclosure

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MOISTURE DENSITY CURVE



Test specification: ASTM D 1557-07 Method A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
							0.0	11.7

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 110.7 pcf Optimum moisture = 15.6 %	S.P.P.Co. SAND RILITE PIT
Project No. 1009 Client: RILITE AGGREGATES Project: RILITE AGGREGATES-AGGREGATE QUALITY TESTING ○ Location: PLANT STOCKPILE Sample Number: 27840	Remarks: RECEIVED 2/7/2013
	

Figure

Tested By: J. SMITH

Checked By: S. VINEIS