

6980 Sierra Center Parkway, Suite 90  
Reno, NV 89511

May 23, 2016  
File: 1009

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

**RE: Rilite Pit – NV Energy Bedding Sand**

Dear Mr. Benna:

Per your request, we have performed aggregate quality testing on the NV Energy bedding sand received by our laboratory from the Rilite Pit on May 17<sup>th</sup>. Test results are provided on the attached page(s) in comparison with standards outlined in the *Sierra Pacific Engineering & Construction Standard* specifications.

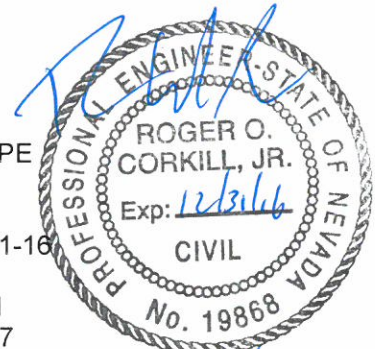
We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

**CONSTRUCTION MATERIALS ENGINEERS, INC.**

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SLV:ROC:jy  
Attachments  
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NV ENERGY BEDDING SAND TEST RESULTS SUMMARY - RILITE PIT

**Sieve Analysis**

U.S. Standard Sieve Size	Percent Passing by Weight	
	ASTM C136/ASTM C117	NV Energy Specification <sup>1</sup>
3/8 Inch	100	100
No. 4	100	90 - 100
No. 8	84	-
No. 16	62	-
No. 30	44	-
No. 50	30	10 - 40
No. 100	19	3 - 20
No. 200	12.2	0 - 15

Test Type	Test Method	Sample Result	NV Energy Specification <sup>1</sup>
Sand Equivalent	ASTM D2419	69	25 Minimum
Plasticity Index	ASTM D4318	Nonplastic	Nonplastic

**Moisture Density**

Test Type	Test Method	Sample Result	NV Energy Specification <sup>1</sup>
Maximum Dry Density	ASTM D1557A	114.0 pcf	-
Optimum Moisture	ASTM D1557A	14.5%	-

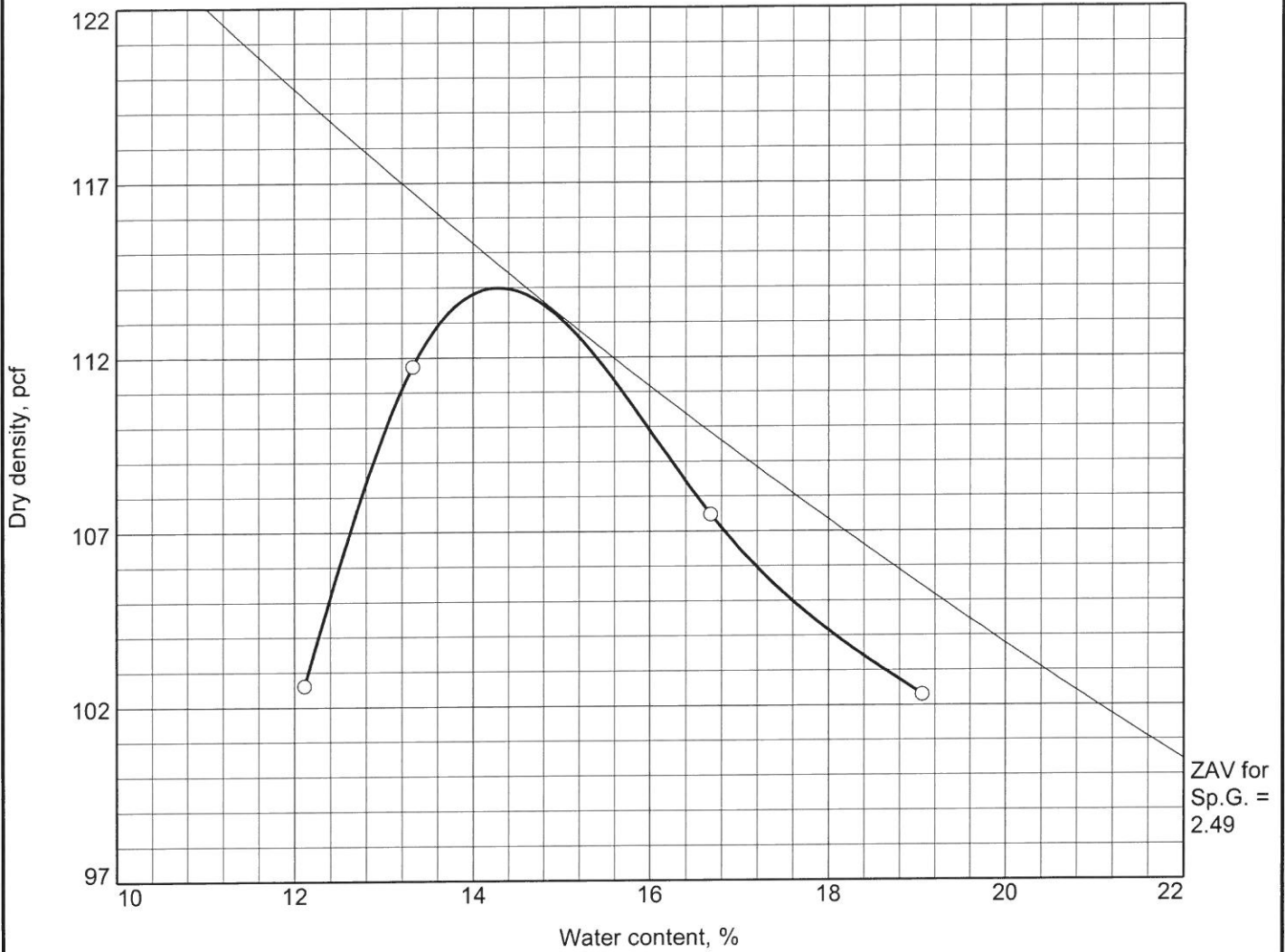
**Angularity**

Description	Test Method	Sample Result	NV Energy Specification <sup>1</sup>
Angular	ASTM D2488	0.0%	30% Maximum
Subangular	ASTM D2488	0.0%	Acceptable
Subrounded	ASTM D2488	0.0%	Acceptable
Rounded	ASTM D2488	0.0%	Acceptable

<sup>1</sup> Specifications per Sierra Pacific Engineering and Construction Standard.



# 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	12.2

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 114.0 pcf Optimum moisture = 14.5 %	NV ENERGY BEDDING SAND RILITE PIT
<b>Project No.</b> 1009 <b>Client:</b> RILITE AGGREGATES <b>Project:</b> RILITE AGGREGATES-QUALITY TESTING  ○ <b>Location:</b> PLANT STOCKPILE <b>Sample Number:</b> 30341	<b>Remarks:</b> RECEIVED 5/23/2016
	<b>Figure</b>

Tested By: T. LEGG      Checked By: S. VINEIS