

6980 Sierra Center Parkway, Suite 90
Reno, NV 89511

March 18, 2014
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 March 14th. Test results are provided on the attached page(s) in comparison with standards outlined in the *Sierra Pacific Engineering & Construction Standard* specifications.

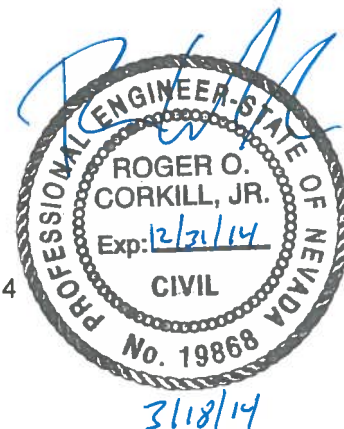
We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.

Steven L. Vineis
Laboratory Manager
svineis@cmenv.com
Direct: 775-737-7568
Mobile: 775-772-9921

Roger O. Corkill Jr., PE
Project Manager
RE Number 19868
Expiration Date 12-31-14
rcorkill@cmenv.com
Direct: 775-737-7581
Mobile: 775-722-5067



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 ¹
3/8 Inch	100	100
No. 4	100	90 - 100
No. 8	89	-
No. 16	61	-
No. 30	41	-
No. 50	26	10 - 40
No. 100	15	3 - 20
No. 200	7.5	0 - 15

Test Type	Test Method	Sample Result	NV Energy Specification ¹
Sand Equivalent	ASTM D2419	78	25 Minimum
Plasticity Index	ASTM D4318	Nonplastic	Nonplastic

Moisture Density

Test Type	Test Method	Sample Result	NV Energy Specification ¹
Maximum Dry Density	ASTM D1557A	100.8 pcf	-
Optimum Moisture	ASTM D1557A	14.4%	-

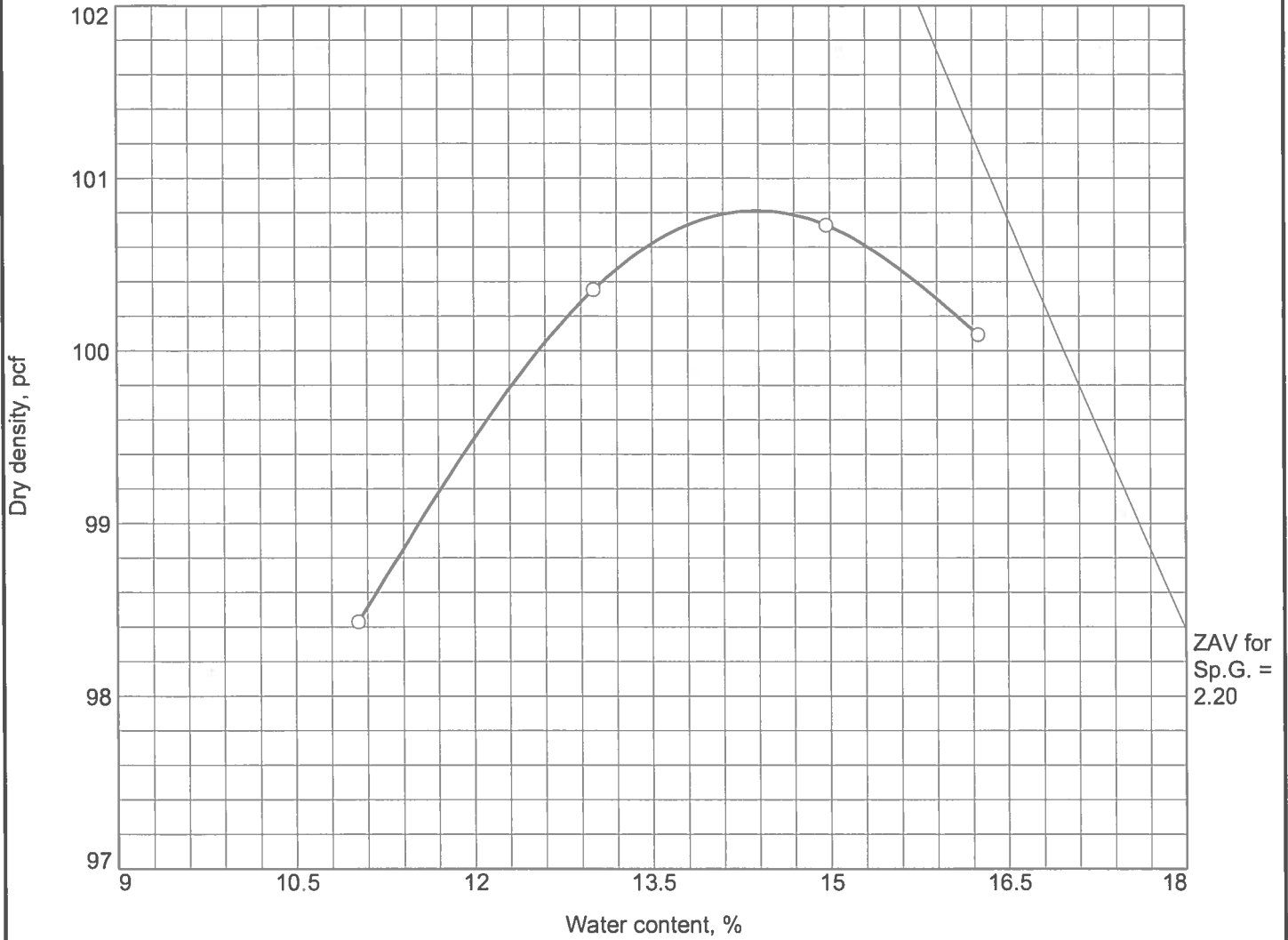
Angularity

Description	Test Method	Sample Result	NV Energy Specification ¹
Angular	ASTM D2488	0.2%	30% Maximum
Subangular	ASTM D2488	0.0%	Acceptable
Subrounded	ASTM D2488	0.0%	Acceptable
Rounded	ASTM D2488	0.0%	Acceptable

¹ 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						
							0.1	

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 100.8 pcf Optimum moisture = 14.4 %	NV ENERGY SAND RILITE PIT
Project No. 1009 Client: RILITE AGGREGATES Project: RILITE AGGREGATES-AGGREGATE QUALITY TESTING ○ Location: PLANT STOCKPILE Sample Number: 28649	Remarks: RECEIVED 3/14/2014
	Figure

Tested By: M. CAVIGLIA Checked By: S. VINEIS