



300 Sierra Manor Drive, Suite 1
Reno, NV 89511

February 12, 2024
File: 1009

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

RE: Rilite Pit – NV Energy Gas Pipe Sand Bedding

Dear Mr. Benna:

Per your request, we have performed aggregate quality testing on the NV Energy gas pipe sand bedding received by our laboratory from the Rilite Pit on January 26th, 2023. Test results are provided on the attached page(s) in comparison with standards outlined in the *NV Energy Engineering & Construction Standard* specifications.

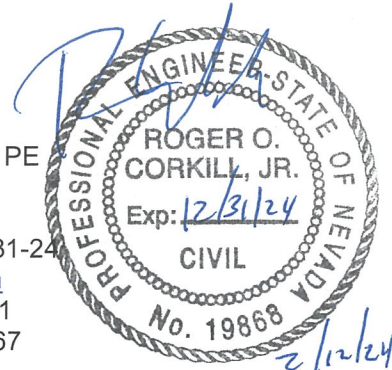
We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.

Spencer Schweitzer
Laboratory Manager
sschweitzer@cmenv.com
Mobile: 208-559-7665

Roger O. Corkill Jr., PE
Project Manager
RE Number 19868
Expiration Date 12-31-24
rcorkill@cmenv.com
Direct: 775-737-7581
Mobile: 775-722-5067



SS:ROC:ss
Attachments
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NV ENERGY GAS PIPE SAND BEDDING 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	73	-
No. 16	48	-
No. 30	32	-
No. 50	22	10 - 40
No. 100	15	3 - 20
No. 200	11.0	0 - 15

Test Type	Test Method	Sample Result	NV Energy Specification ¹
Sand Equivalent	ASTM D2419	66	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	113.5	-
Optimum Moisture	ASTM D1557A	14.0%	-

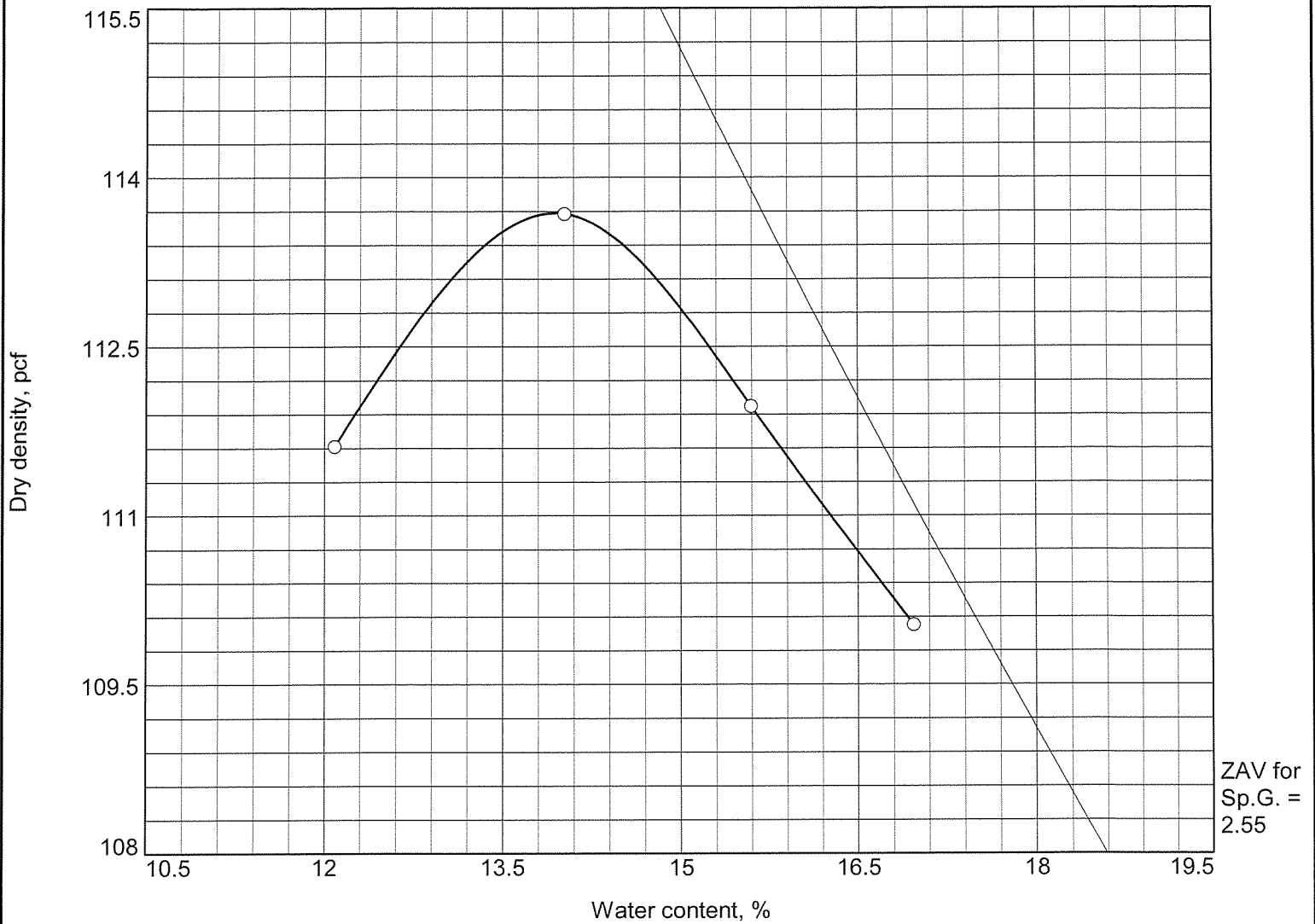
Angularity

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

¹ Specifications per NV Energy Engineering and Construction Standard dated 5/2016.




MOISTURE DENSITY CURVE for Curve No. 38484



Test specification: ASTM D 1557-12 Method A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
							0	

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 113.5 pcf Optimum moisture = 14.0 %	NV ENERGY SAND RILITE PIT GREY BEDDING SAND

Project No. 1009 Client: RILITE AGGREGATES Project: RILITE AGGREGATES-QUALITY TESTING Date: 2/2/2024 Location: STOCKPILE Sample Number: 38484	Remarks: RECEIVED ON 1/26/2024
	Figure

Tested By: T. JORDAN

Checked By: S. SCHWEITZER