



300 Sierra Manor Drive, Suite 1
 Reno, NV 89511

June 13, 2022
 File: 1013

Mr. John DeMartin
A&K EARTHMOVERS, INC.
 PO Box 1059
 Fallon, NV 89407

RE: Structural Fill – FDR Pit

Dear Mr. DeMartin:

Per your request, we have performed testing on the structural fill delivered to our laboratory on June 8th. Test results in comparison with local standard specifications are as follows:

Sieve Size Analysis (ASTM C136)		
U.S. Standard Sieve Size	Percent By Weight Passing	
	FDR Pit.	Local Standard Specification
4 Inch	100	100
2 Inch	89	-
1 ½ Inch	89	-
1 Inch	85	-
¾ Inch	84	70 - 100
½ Inch	81	-
⅜ Inch	78	-
No. 4	73	-
No. 8	68	-
No. 10	66	-
No. 16	62	-
No. 30	53	-
No. 40	47	15 - 65
No. 50	39	-
No. 100	26	-
No. 200	15.2	5 - 20

Atterberg Limits (ASTM D4318)		
	FDR Pit	Specification
Liquid Limit	No Value	35 Maximum
Plasticity Index	Nonplastic	12 Maximum

R-Value (ASTM D2844)	
FDR Pit	Specification
72	30 Minimum

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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.

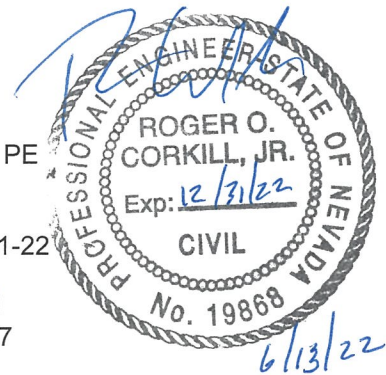
Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.



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

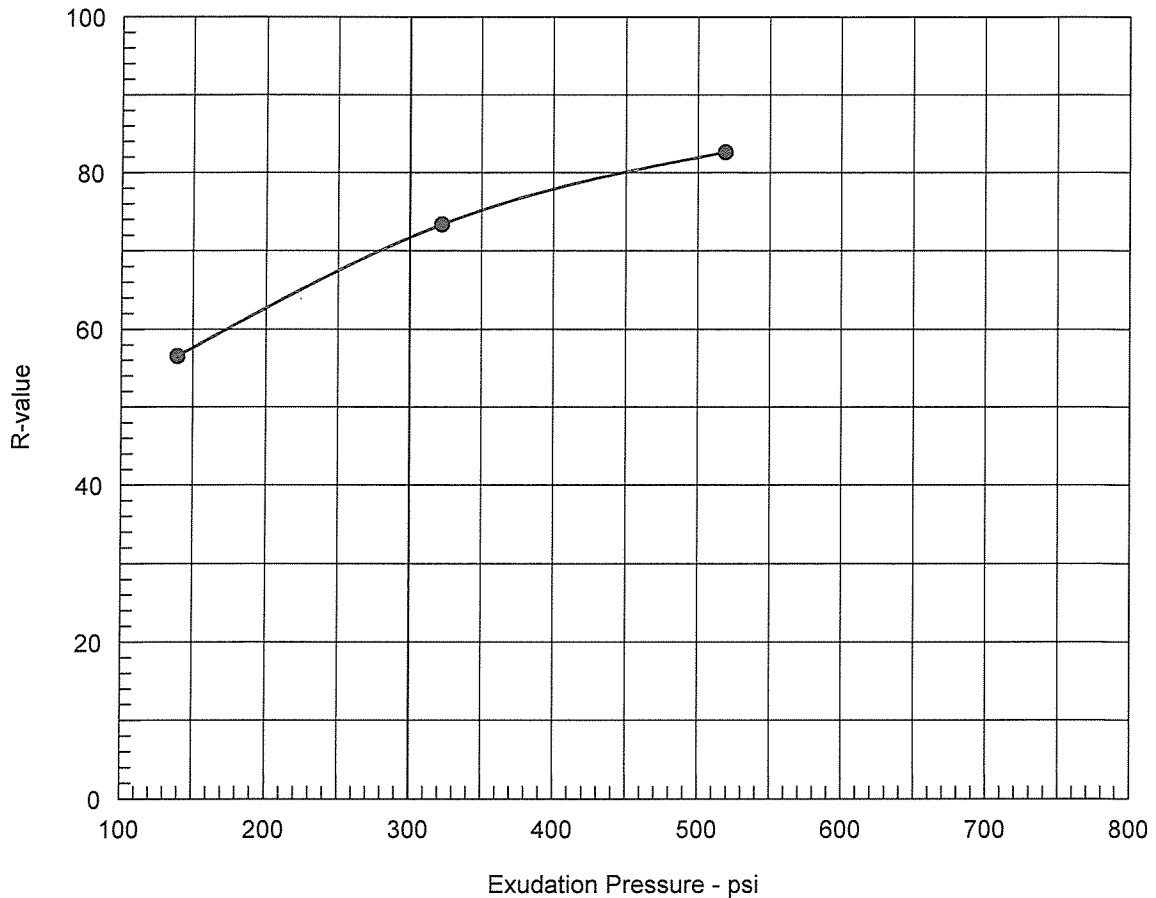
Roger O. Corkill, Jr., PE
Project Manager
RE Number 19868
Expiration Date 12-31-22
rcorkill@cmenv.com
Direct: 775-737-7581
Mobile: 775-722-5067



SLV:ROC:mad
Enclosures


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R-VALUE TEST REPORT



Resistance R-Value and Expansion Pressure - ASTM D2844

No.	Compact Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	125.9	11.5	0.00	26	2.50	322	73	73
2	350	127.3	10.2	0.00	17	2.50	519	83	83
3	300	123.9	12.2	0.00	45	2.50	139	57	57

Test Results	Material Description
R-value at 300 psi exudation pressure = 72	TAN SAND W/ GRAVEL
Project No.: 1013 Project: FARM DISTRICT ROAD, STRUCTURAL FILL Location: FDR PIT STOCKPILE-EAST SIDE Sample Number: 36503 Date: 6/10/2022	Tested by: M. PONTONI Checked by: S. VINEIS Remarks: SAMPLED ON 6/7/2022
	Figure _____