UNIVERSAL ENGINEERING SCIENCES
Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Construction Materials Testing • Threshold Inspection
Building Inspection • Plan Review • Building Code Administration

LOCATIONS:
- Atlanta
- Daytona Beach
- Fort Myers
- Fort Pierce
- Gainesville
- Jacksonville
- Miami
- Ocala
- Orlando (Headquarters)
- Palm Coast
- Panama City
- Pensacola
- Rockledge
- Sarasota
- Tampa
- Tifton
- West Palm Beach

Client: Razorback Mining Co.

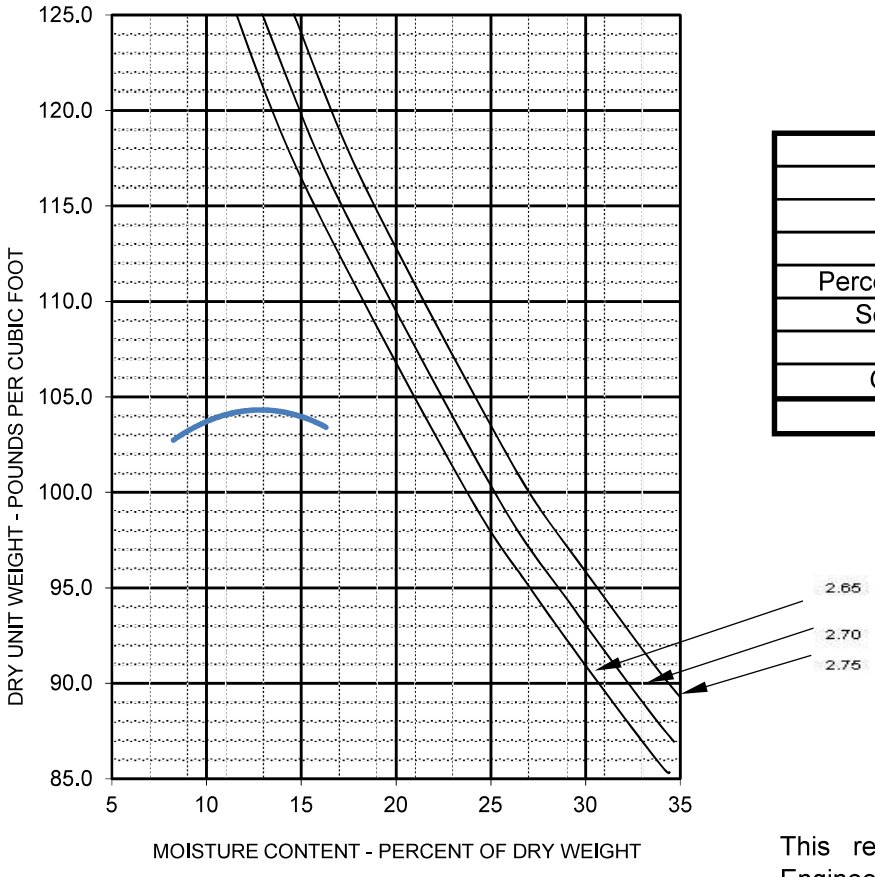
Project No.: New
Report No.: PR#1
Date: March 7, 2022

Project: Leonard Lee Pit

MODIFIED PROCTOR REPORT
ASTM D 1557 (B)

Date Sampled: 2/24/2022
Date Tested: 2/28/2022
Workorder No.:

Sampled By: Client
Sample No.: 14601
Rammer Type: Mechanical



Proctor	
Maximum Density (pcf)	**110.9**
Optimum Moisture (%)	**12.5**
Soil Classification	
Percent Passing 200 (ASTM D1140)	3.10
Soil Classification (ASTM D2487)	N/A
Plasticity Index (ASTM D4318)	N/A
Organic Content (ASTM D2974)	0.1
pH (ASTM D1293)	7.63

Soil Description: White Sand
Location: Cell #1

This report has been reviewed by the UES Engineer of Record. The intent of this report is to provide testing information in an Expeditious manner. A signed / sealed cover page for all tests reports can be provided at the completion of the project and / or at the request of the client.

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Client: Razorback Mining Co.

Project No.: New
Report No.: PR#1 GRD
Date: March 7, 2022

Project:
Leonard Lee Pit

Fine Aggregate Sieve w/ 200 Wash Correction

Sample #: Cell #1 PR#1
Date Tested: 3/4/2022
Description White Sand

Date Sampled: 2/24/2022
Tested By: N. Clark

Weight of Dry Soil:	160.47
Weight Passing 200 Wash:	4.92

SIEVE SIZE	INDIVIDUAL WT. ON SIEVE	INDIVIDUAL % RETAINED	ACCUM. WEIGHT	PERCENT RETAINED	PERCENT PASSING
3 1/2	0	0.00%	0	0.00%	100.00%
4	0	0.00%	0	0.00%	100.00%
10	0	0.00%	0	0.00%	100.00%
40	5.43	3.38%	5.43	3.38%	96.62%
60	21.24	13.24%	26.67	16.62%	83.38%
100	49.48	30.83%	76.15	47.45%	52.55%
200	75.51	47.06%	151.66	94.51%	5.49%
PAN	3.81	2.37%	155.47	96.88%	3.12%
Total 200		0.00%	8.73	94.56%	5.44%

Fineness Modulus

Total Accum. Weight	160.39
Percent Loss:	0.05