

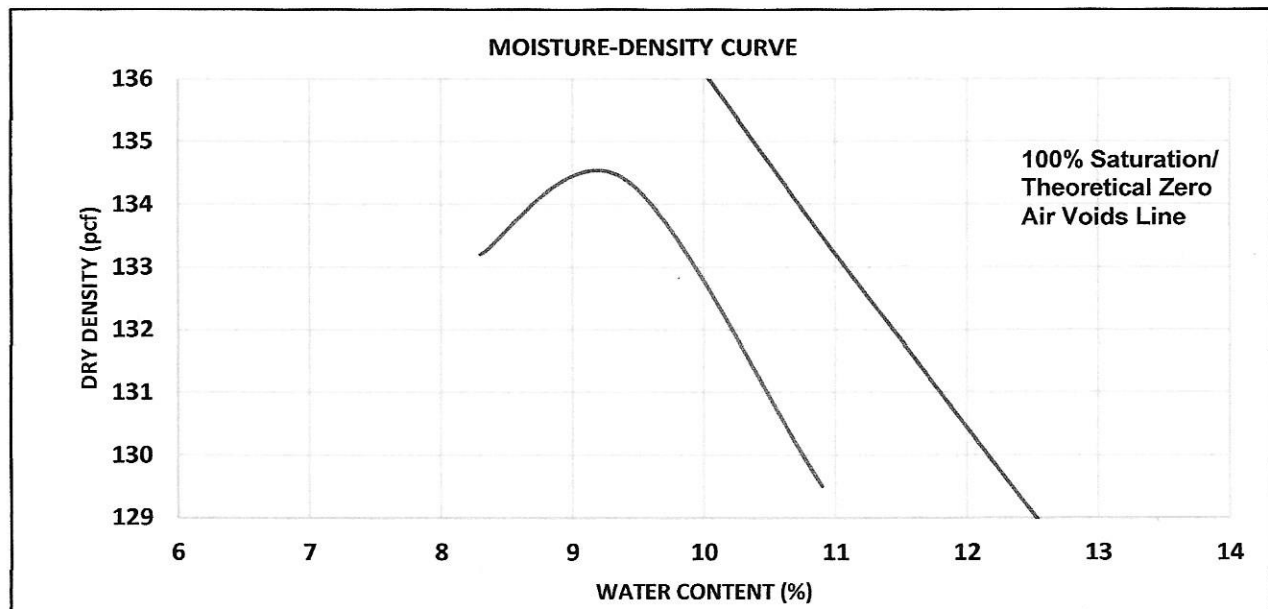


CONSTRUCTION TESTING & ENGINEERING, INC.

P.O. BOX 271125, SALT LAKE CITY, UTAH 84127-1125
(801) 972-4001 • Construction.Testing@gmail.com

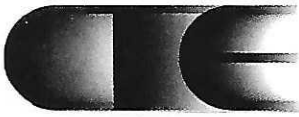
SOIL MOISTURE-DENSITY RELATIONSHIP

CLIENT:	Lakeview Rock Products	DATE:	March 28, 2022, Mon.
PROJECT:	QC Testing, North Pit	WORK ORDER:	7674
CONTRACTOR:	Lakeview Rock Products	FILE:	125-1
TEST METHOD:	ASTM D 1557-91 / AASHTO T-180, Method B		
PROCTOR DATA			
SOURCE OF MATERIAL:	North Pit stockpile		
-3/4" MAXIMUM DRY DENSITY:	134.6		
-3/4" OPTIMUM MOISTURE CONTENT:	9.2		
MOISTURE CONTENT AS RECEIVED:	3.8		
QUALITATIVE / PHYSICAL SOIL DESCRIPTION (ASTM D 2487 / D 2488):			
Type 3 Sand (manufactured/M-sand):			
Coarse-grained soil comprised of 63.5% well-graded angular sand; 26.6% well-graded minus 3/8" angular (crushed) gravel; and 9.9% non-plastic silt. Soil color: Medium grey-tan at optimum moisture; light grey when dry. Note: See related/attached sieve analysis test report (pg 2).			



CONSTRUCTION TESTING & ENGINEERING, INC.
CERTIFIED TEST REPORT:

David K. Megeath, Manager



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SOILS TEST REPORT

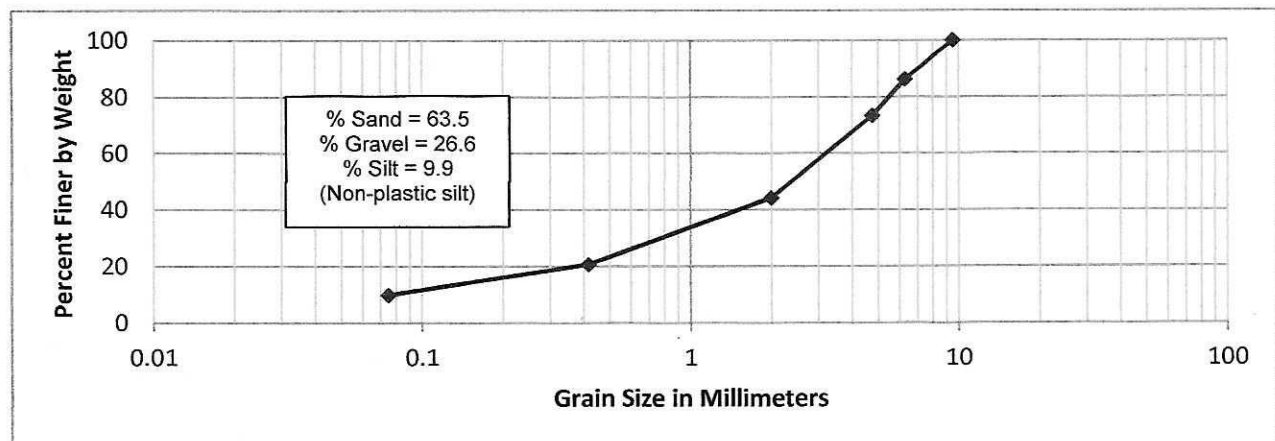
CLIENT: Lakeview Rock Products
PROJECT: QC Testing, North Pit
RE: Type 3 Sand (manufactured/M-sand)
SPECIFICATION REQUIREMENTS: NA, reference testing, see %'s below

DATE: March 28, 2022, Mon.
FILE #: 125 / WO #: 7674

SIEVE ANALYSIS RESULTS ASTM C 117 / C 136

Sieve Size	Sieve Opening in mm	Individual % Retained	Accumulated % Retained	**RESULTS** % Passing	Ideal /Tolerance Gradation % Passing
3/8"	9.5	0	0	100	100
1/4"	6.3	13.8	13.8	86.2	NA
#4	4.75	12.8	26.6	73.4	"
#10	2.0	29.2	55.8	44.2	"
#40	.417	23.5	79.3	20.7	"
#200	.075	10.8	90.1	9.9	"

Test sample dry weight: 1137 grams



REMARKS:

Source of material: North Pit stockpile
Moisture content as received: 3.8%
Sand, gravel physical appearance/shape: Angular

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