Tifton Soil Testing Lab, LLC
689 Brighton Road
Tifton, Georgia 31794
(229) 382-7292
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ACCREDITED
TESTING CERT #1014.01

Date Received: July 29, 2024
Date Reported: August 1, 2024
Sample Number: L196A-24
Test Report For: U.S. Sports Field Sand, LLC
1434 3rd Street
Kentwood, LA 70444
Attn: Donny Sligar

RE: Complete Sand Test

PHYSICAL ANALYSIS[1]

MIXES ANALYZED (% by Volume)			SATURATED HYDRAULIC CONDUCTIVITY in/hr	POROSITY (%)			BULK DENSITY g/cm³	WATER RETENTION AT FIELD CAPACITY %	CHEMICAL	
SOIL	SAND	AMENDMENT		NON-CAPILLARY (air-filled)	CAPILLARY (water-filled)	TOTAL			pH[2]	EC mmhos/cm
20/40 Sand			40.1	33.4	7.4	40.8	1.57	4.7	8.8	
General Recommendations for an SRM:			8 - 15 in/hr.	15 - 30	15 - 25	35 - 55				

PARTICLE DENSITY[3] 2.65 g/cm³

PARTICLE SIZE ANALYSIS

SAMPLES	GRAVEL 2 mm %	SAND FRACTIONS (% Retained)[4]					SAND[5] 0.05-2 mm %	SILT[5] 0.002-0.05 mm %	CLAY[5] <0.002 mm %	ORGANIC MATTER[6] % by wt.
		VERY COARSE 1 mm	COARSE 0.5 mm	MEDIUM 0.25 mm	FINE 0.15 mm	VERY FINE 0.05 mm				
20/40 Sand	0.0	0.0	5.0	88.8	5.6	0.1	99.5	0.5	0.0	
USGA Recommendations for a Rootzone Mix:	≤ 3% Gravel ≤ 10% Combined		≥ 60% Combined		≤ 20%	≤ 5%		≤ 5%	≤ 3%	

Note: Coarse Gravel (> 4 mm) should be 0%. Total fines (very fine sand, silt, and clay) should be ≤ 10% combined.

1. ASTM F1815 (Determined at 30 cm tension) 2. ASTM D4972 Method A (water) 3. ASTM D854-98 Method A 4. ASTM C136 5. Bouyoucos, 1962 6. ASTM F1647 Method A
7. F1632 Test Method 2 (Particle Shape) SRM Form (Version 4) - Effective Date: 12/6/23

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RE: Complete Sand Test

Recommendation Form (Version 3) - Effective Date: 12/6/23

Recommendations:

A complete physical analysis and particle size analysis, including pH, were made on the 20/40 Sand on July 30, 2024, as requested by U.S. Sports Field Sand, LLC. The condition of the sample as received was normal.

The Sand has a water permeability rate of 40.1 in/hr. when compacted by the ASTM F1815 method.

The Sand is composed of a medium sand (88.8% medium sand particles) with 5.6% fine sand and 0.6% fines (total of very fine sand, silt, and clay).

The soil water pH of this Sand is 8.8 (8.0 $CaCl_2$), which is higher than the optimum pH range of 6.0 to 6.5 for turfgrass. This Sand tested positive as calcareous when treated with dilute acid.

Hope Mullis