Tifton Soil Testing Lab, LLC
689 Brighton Road
Tifton, Georgia 31794
(229) 382-7292
www.tiftonsoillab.com

ACCREDITED
TESTING CERT #1014.01

Date Received: August 12, 2024
Date Reported: August 14, 2024
Sample Number: L196E-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
12/20 Sand			43.7	32.8	5.7	38.5	1.63	3.5	9.3	
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				
12/20 Sand	0.0	33.5	60.9	5.0	0.1	0.0	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)

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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 12/20 Sand on August 13, 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 43.7 in/hr. when compacted by the ASTM F1815 method.

The Sand is composed of a coarse sand (60.9% very coarse sand particles) with 0.1% fine sand and 0.5% fines (total of very fine sand, silt, and clay).

The soil water pH of this Sand is 9.3 (8.3 $CaCl_2$), which is higher than the optimum pH range of 6.0 to 6.5 for turfgrass.

Hope Mullis