FREESTONE LAKE GOLF

Client: Freestone Golf Club

Spring 2025 Report

	4/2/25
Humidity/Air Temperature	rainy/75°
Greens Temperature	(avg)70°
Fairway Temperature	(avg)70°

WATER	Acceptable Range For Water Sample	Well 4/2/25	Irrigation 4/2/25
pH	6.3-6.5	7.64	7.45
EC	<2.25 mmhos/cm	0.38	0.45
Sodium		60.61	37.93
Calcium	20 - 60 ppm	20.49	37.78
Magnesium	10 - 25 ppm	4.03	10.39
Potassium	5 - 20 ppm	1.73	8.05
Sulfur	30 - 90 ppm	30.03	44.29
Bicarbonate	<120 ppm	167.68	133.60
Boron	<0.67 ppm	0.07	0.15
Chloride	<177 ppm	20.94	50.72

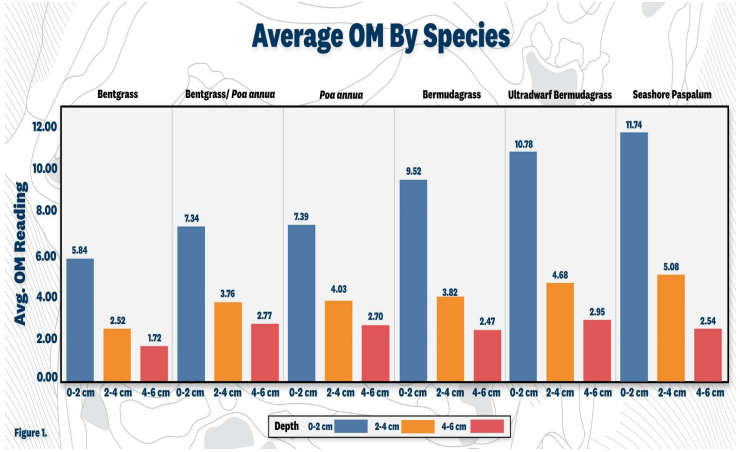

Figure 1.

	Green #6 (4-2025)	USGA Research *National Averages (Bermudagrass)*
Organic Material 0-2cm	2.35	***9.52***
Organic Material 2-4cm	0.61	***3.62***
Organic Material 4-6cm	0.48	***2.47***

SOIL AND WATER CONSULTING

TEES	**Acceptable Range For Alkaline Soils Sample**	**1,6,10(avg) 4/2/25**
Organic Matter (Humus)	2 - 3%	0.52
Sulfur	12 - 16 ppm	44.00
Olsen - Phosphorus	13 - 20 ppm	4.67
Calcium - TEC of 6 - 12	1,000 lbs/acre	3,803.33
Magnesium	>7% base saturation or at least 200 lbs/acre	3.87%/98
Potassium - TEC of 0 - 35	100 ppm	54.33
Manganese	>50 ppm	17.67

FAIRWAYS	**Acceptable Range For Alkaline Soils Sample**	**1,6,10(avg) 4/2/25**
Organic Matter (Humus)	2 - 3%	0.16
Sulfur	12 - 16 ppm	51.33
Olsen - Phosphorus	13 - 20 ppm	7.67
Calcium - TEC of 6 - 12	1,000 lbs/acre	3,787.33
Magnesium	>7% base saturation or at least 200 lbs/acre	3.57%/89.33
Potassium - TEC of 0 - 35	100 ppm	59.00
Manganese	>50 ppm	17.67

GREENS	**Acceptable Range For Alkaline Soils Sample**	**1,6,10(avg) 4/2/25**
Organic Matter (Humus)	2 - 3%	0.26
Sulfur	12 - 16 ppm	11.33
Olsen - Phosphorus	13 - 20 ppm	3.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	754.00
Magnesium	>7% base saturation or at least 200 lbs/acre	9.07%/47.33
Potassium - TEC of 0 - 35	150 ppm	39.33
Manganese	>50 ppm	14.33

SOIL AND WATER CONSULTING

Nutrient Deficiencies

		P	Mg	K
SHORT COURSE	TEE	4	116	61
SHORT COURSE	TEE	4	84	47
SHORT COURSE	TEE	6	94	55
SHORT COURSE	FAIRWAY	11	88	60
SHORT COURSE	FAIRWAY	< 2	88	53
SHORT COURSE	FAIRWAY	10	92	64
SHORT COURSE	GREEN	5	52	41
SHORT COURSE	GREEN	2	46	28
SHORT COURSE	GREEN	< 2	44	49

Phosphorus can be added in the form of 11-55-00 (or a simple starter fertilizer if nitrogen is needed) at a rate of 125 pounds of product per acre two times between now and August

Magnesium/Potassium can be added in the form of 0-0-22 at a rate of 200 pounds of product per acre every other month until August

Comments and Next Level Cultural Practices

- Using an Organic Material based product for Phosphorus is a way to “kill two birds with one stone”. You can also use OM added into the sand-based areas.
- The sand selected for both the greens and capping material was chosen to e able to move water. It also has a hard time holding nutrients. Until there has been a full year of growing, it will be important to keep up with amendments and even spraying a full minor nutrients package.
- After a rain event is the best time to apply the above recommendations.