



Client: Santa Rosa Golf & Country Club

Spring 2025 Report

<u>4/26/25</u>	
Humidity/Air Temperature	rainy/55°
Greens Temperature	(avg)60°
Fairway Temperature	(avg)60°

	<u>Acceptable Range For Water Sample</u>	<u>Hole #1 4/26/25</u>
EC	<2.25 mmhos/cm	0.28
Sodium		46.08
Calcium	20 - 60 ppm	13.14
Magnesium	10 - 25 ppm	3.71
Potassium	5 - 20 ppm	2.17
Sulfur	30 - 90 ppm	2.79
Bicarbonate	<120 ppm	143.56
Boron	<0.67 ppm	0.25
Chloride	<177 ppm	15.83



SOIL AND WATER CONSULTING

GREEN	<u>Green #1 0-5"</u>		<u>Green #1 Below 5"</u>	<u>Topdressing Sand</u>
		<u>4/26/25</u>	<u>4/26/25</u>	<u>4/26/25</u>
Clay		1.90	0.90	n/r
Silt		0.10	4.30	n/r
Sand		97.70	89.90	n/r
Gravel		0.30	4.90	n/r
Organic Material		6.35	0.57	n/r
<u>Sieve #:</u>				
Fine Gravel	10	0.30	4.90	n/r
Very Coarse Sand	18	0.70	1.60	n/r
Coarse Sand	35	5.70	47.20	n/r
Medium Sand	60	34.10	29.30	n/r
Fine Sand	100	33.70	8.00	n/r
Very Fine Sand	140	18.50	2.20	n/r
Very Fine Sand	270	5.00	1.60	n/r
Infiltration Rate		n/r	n/r	n/r

TEES	Acceptable Range For Alkaline Soils Sample	1,10,18avg) 4/26/25
Organic Matter (Humus)	2 - 3%	3.46
Sulfur	12 - 16 ppm	10.00
Olsen - Phosphorus	13 - 20 ppm	23.67
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,239.33
Magnesium	>7% base saturation or at least 200 lbs/acre	13.73%/257.33
Potassium - TEC of 0 - 35	100 ppm	117.00
Manganese	50-80 ppm	31.33

FAIRWAYS	Acceptable Range For Alkaline Soils Sample	1,10,18avg) 4/26/25
Organic Matter (Humus)	2 - 3%	4.29
Sulfur	12 - 16 ppm	11.67
Olsen - Phosphorus	13 - 20 ppm	18.67
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,718.00
Magnesium	>7% base saturation or at least 200 lbs/acre	9.11%/188.66
Potassium - TEC of 0 - 35	100 ppm	121.33
Manganese	50-80 ppm	41.67

GREENS	Acceptable Range For Alkaline Soils Sample	1,10,18avg) 4/26/25
Organic Matter (Humus)	2 - 3%	1.42
Sulfur	12 - 16 ppm	8.67
Olsen - Phosphorus	13 - 20 ppm	11.67
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,094.67
Magnesium	>7% base saturation or at least 200 lbs/acre	15.1%/132.66
Potassium - TEC of 0 - 35	150 ppm	46.67
Manganese	50-80 ppm	45.67

TEE	Acceptable Range For Saturated Paste Sample	1 4/26/25
Nitrate-Cool Season	5-10 ppm	1.80
Phosphorus	2 - 10 ppm	2.30
Potassium	40 - 100 ppm	17.69
Calcium	60 - 200 ppm	20.89
Magnesium	20 - 70 ppm	4.18
Sodium	0 - 30 ppm	38.33
Soluble Salts	<1,920 ppm	194.00
Bicarbonate	<60 ppm	86.08
Chloride	<1,000 ppm	33.00
SAR	<4%	2.00

FAIRWAY	Acceptable Range For Saturated Paste Sample	1 4/26/25
Nitrate-Cool Season	5-10 ppm	1.70
Phosphorus	2 - 10 ppm	2.07
Potassium	40 - 100 ppm	13.84
Calcium	60 - 200 ppm	30.60
Magnesium	20 - 70 ppm	4.07
Sodium	0 - 30 ppm	41.82
Soluble Salts	<1,920 ppm	203.00
Bicarbonate	<60 ppm	102.48
Chloride	<1,000 ppm	29.00
SAR	<4%	1.88

GREENS	Acceptable Range For Saturated Paste Sample	1,10,18(avg) 4/26/25
Nitrate- Bentgrass/poa annua	1-3 ppm	2.70
Phosphorus	2 - 7 ppm	1.17
Potassium	25-40 ppm	4.63
Calcium	50- 75 ppm	15.45
Magnesium	15-30 ppm	2.90
Sodium	0 - 30 ppm	18.12
Soluble Salts	<1,000 ppm	109.00
Bicarbonate	<60 ppm	35.42
Chloride	<200 ppm	11.00
SAR	<4%	1.11

Average OM By Species

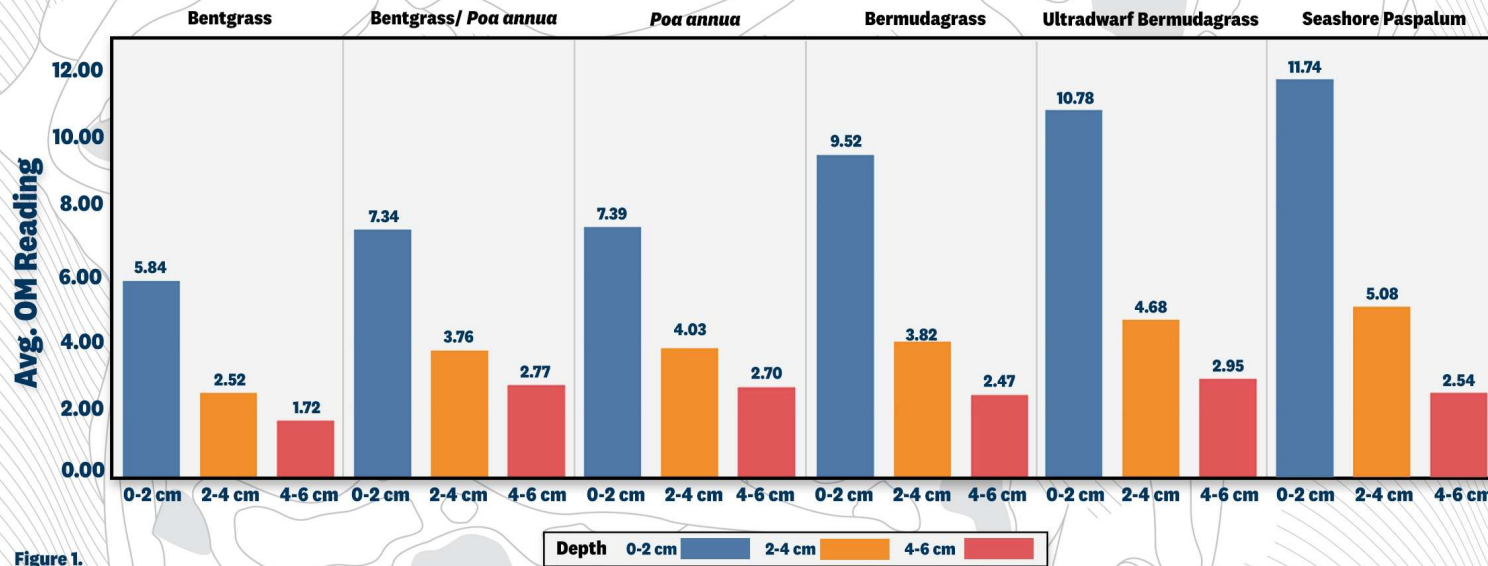


Figure 1.

<https://www.usga.org/content/usga/home-page/course-care/green-section-record/62/issue-22/are-you-managing-putting-green-organic-matter-or-is-it-managing-.html#sectionFilters=research&returnable>

	Green #1 (4-2025)	USGA Research <u>National Averages (Bentgrass/Poa Annua)</u>
Organic Material 0-2cm	10.27	7.34
Organic Material 2-4cm	4.10	3.76
Organic Material 4-6cm	2.71	2.77

Nutrient Deficiencies

		Mg	K
TEE	1	220	105
TEE	10	244	138
TEE	18	308	108
FAIRWAY	1	184	130
FAIRWAY	10	186	118
FAIRWAY	18	196	116
GREEN	1	138	44
GREEN	10	124	43
GREEN	18	136	53

Potassium/Magnesium can be added in the form of 0-0-22 at a rate of 6 pounds of product per 1,000 sq ft on greens

Comments

- This was my first visit to the area and your course. I won't make many big statements from one ride around.
- The recommendation above is to address some deficiencies in the soils.
- Green #1 did look like a different mix from the other two greens I sampled. The core sample results show a 5" layer that is very fine. We should make sure we get a topdressing sand sample sent to the lab and make sure it is the correct choice.
- I would also like to discuss how old the greens are and if they have been renovated