



Client: Seven Oaks Country Club
Summer 2024 Report

	<u>6/15/22</u>	<u>6/8/23</u>	<u>6/20/24</u>
Humidity/Air Temperature	10%/98°	50%/82°	20%/94°
Greens Temperature	(avg)89.6°	(avg)66.1°	(avg)66°
Fairways Temperature	(avg)81.56°	(avg)68.3°	(avg)70°

WATER	Acceptable Range For Water Sample	Irrigation Water <u>6/15/22</u>	Irrigation Water <u>6/8/23</u>	Island Hole #5 <u>6/20/24</u>
pH	6.3-6.5	7.73	7.31	7.94
EC	<2.25 mmhos/cm	0.24	2.23	0.21
Sodium		31.55	21.15	23.50
Calcium	20 - 60 ppm	16.79	14.90	18.83
Magnesium	10 - 25 ppm	0.94	<0.20	0.64
Potassium	5 - 20 ppm	0.78	1.91	1.66
Sulfur	30 - 90 ppm	20.09	9.95	16.59
Bicarbonate	<120 ppm	93.59	82.10	85.67
Boron	<0.67 ppm	0.13	0.10	0.11
Chloride	<177 ppm	20.25	10.89	8.68

TEES	Acceptable Range For Alkaline Soils Sample	Oaks 5 6/20/17	Oaks 5 6/20/24	Lakes 5 6/20/17	Lakes 5 6/20/24	Islands 5 6/20/17	Islands 5 6/20/24
Organic Matter (Humus)	2 - 3%	n/r	2.43	n/r	2.45	n/r	2.64
Sulfur	12 - 16 ppm	n/r	11.00	n/r	14.00	n/r	38.00
Olsen - Phosphorus	13 - 20 ppm	n/r	9.00	n/r	7.00	n/r	7.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	n/r	2,834.00	n/r	3,080.00	n/r	2,444.00
Magnesium	>7% base saturation or at least 200 lbs/acre	n/r	8.04%/166	n/r	6.17%/136	n/r	9.25%/174
Potassium - TEC of 0 - 35	100 ppm	n/r	95.00	n/r	110.00	n/r	141.00
Manganese	>50 ppm	n/r	46.00	n/r	37.00	n/r	17.00

FAIRWAYS	Acceptable Range For Alkaline Soils Sample	Oaks 5 6/20/17	Oaks 5 6/20/24	Lakes 5 6/20/17	Lakes 5 6/20/24	Islands 5 6/20/17	Islands 5 6/20/24
Organic Matter (Humus)	2 - 3%	2.78	4.28	3.10	3.78	2.11	3.15
Sulfur	12 - 16 ppm	68.00	24.00	33.00	37.00	22.00	42.00
Olsen- Phosphorus	13-20 ppm	acceptable	18.00	acceptable	27.00	acceptable	12.00
Calcium	1,000 lbs/acre	2,640.00	2,702.00	1,922.00	3,056.00	1,634.00	2,522.00
Magnesium	200 lbs/acre	10.17%/218	8.74%/192	13.22%/224	8.22%/214	13.58%/190	9.42%/192
Potassium	100 ppm	215.00	170.00	266.00	243.00	149.00	150.00
Manganese	>50 ppm	42.00	14.00	36.00	9.00	46.00	26.00

GREENS	Acceptable Range For Alkaline Soils Sample	Oaks 5 6/20/17	Oaks 5 6/20/24	Lakes 5 6/20/17	Lakes 5 6/20/24	Islands 5 6/20/17	Islands 5 6/20/24
Organic Matter (Humus)	2 - 3%	1.04	0.98	0.94	1.10	n/r	0.53
Sulfur	12 - 16 ppm	50.00	62.00	30.00	74.00	n/r	54.00
Olsen - Phosphorus	13 - 20 ppm	31.00	23.00	17.00	22.00	n/r	16.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,550.00	2,010.00	1,562.00	2,400.00	n/r	1,128.00
Magnesium	>7% base saturation or at least 200 lbs/acre	14.14%/186	7.31%/112	11.33%/142	6.33%/116	n/r	11.39%/108
Potassium - TEC of 0 - 35	150 ppm	172.00	175.00	147.00	243.00	n/r	139.00
Manganese	>50ppm	low	86.00	low	108.00	n/r	78.00

TEES	Acceptable Range For Saturated Paste Sample	Lakes 5 6/20/17	Lakes 5 6/20/24
Nitrate -Bermudagrass	5 - 10 ppm	n/r	22.20
Phosphorus	2 - 10 ppm	n/r	0.84
Potassium	40 - 100 ppm	n/r	23.35
Calcium	60 - 200 ppm	n/r	77.63
Magnesium	20 - 70 ppm	n/r	6.48
Sodium	0 - 30 ppm	n/r	43.20
Soluble Salts	<1,920 ppm	n/r	430.00
Bicarbonate	<60 ppm	n/r	115.02
Chloride	<1,000 ppm	n/r	34.00
SAR	<4%	n/r	1.27

FAIRWAYS	Acceptable Range For Saturated Paste Sample	Lakes 5 6/20/17	Lakes 5 6/20/24
Nitrate -Bermudagrass	10-15 ppm	<0.5	16.90
Phosphorus	2 - 10 ppm	0.37	1.56
Potassium	40 - 100 ppm	52.49	34.18
Calcium	60 - 200 ppm	71.43	45.90
Magnesium	20 - 70 ppm	11.07	6.38
Sodium	0 - 30 ppm	76.24	40.12
Soluble Salts	<1,920 ppm	589.00	390.00
Bicarbonate	<60 ppm	239.16	54.72
Chloride	<1,000 ppm	59.00	42.00
SAR	<4%	2.22	1.47

GREENS	Acceptable Range For Saturated Paste Sample	Lakes 5 6/20/17	Lakes 5 6/20/24
Nitrate -Dominator Bentgrass	1-3 ppm	1.40	<0.5
Phosphorus	2 - 7 ppm	4.73	1.07
Potassium	25-40 ppm	58.97	56.53
Calcium	50- 75 ppm	61.58	82.40
Magnesium	15-30 ppm	12.61	7.61
Sodium	0 - 30 ppm	52.46	42.42
Soluble Salts	<1,000 ppm	552.00	483.00
Bicarbonate	<60 ppm	95.15	54.08
Chloride	<200 ppm	30.00	23.00
SAR	<4%	1.59	1.20

Nutrient Deficiencies

			P	Mg
ISLAND	TEE	5	7	174
LAKES	TEE	5	7	136
OAKS	TEE	5	9	166
ISLAND	FAIRWAY	5	12	192
LAKES	FAIRWAY	5	27	214
OAKS	FAIRWAY	5	18	192
ISLAND	GREEN	5	16	108
LAKES	GREEN	5	22	116
OAKS	GREEN	5	23	112

Magnesium can be added in the form of Pro-Mag 36 at a rate of 3 pounds of product per 1,000 sq ft at next aerification

Phosphorus can be added in the form of 11-55-00 at a rate of 3 pounds of product per 1,000 sq ft at the next aerification.

Comments

- You have done an excellent job of controlling thatch build up in the greens.
- On the day of my visit, I did notice some minor Fairy Ring on a few greens.
- During the sample process, I did see some black layer in the Oaks and Lakes Green #5.