



Client: La Valle Coastal Club
Fall 2024 Report

<u>10/21/24</u>	
Humidity/Air Temperature	35%/78°
Greens Temperature	(avg)62.5°
Fairways Temperature	(avg)65°

WATER	Acceptable Range For Water Sample	Reclaimed Irrigation Water 10/21/24	Well Irrigation Water 10/21/24
pH	6.50	7.54	7.63
EC	<2.25 mmhos/cm	1.51	4.88
Sodium		187.03	609.03
Calcium	20 - 60 ppm	75.88	365.03
Magnesium	10 - 25 ppm	31.63	187.14
Potassium	5 - 20 ppm	19.96	10.70
Phosphorus	0.1-0.4 ppm	2.05	<0.20
Nitrate	0-2 ppm	22.56	1.32
Sulfur	30 - 90 ppm	224.41	742.45
Bicarbonate	<120 ppm	111.04	492.96
Boron	<0.67 ppm	0.30	0.37
Chloride	<177 ppm	352.33	1,574.42



SOIL AND WATER CONSULTING

TEES	Acceptable Range For Tissue Sample	10/21/24
Nitrogen	3.34%-5.10%	n/r
Phosphorus	0.35% - 0.55%	n/r
Potassium	2.0% - 3.42%	n/r
Calcium	0.25%-0.5%	n/r
Magnesium	0.16%-0.32%	n/r
Sodium	229-1107 ppm	n/r

FAIRWAYS	Acceptable Range For Tissue Sample	10/21/24
Nitrogen	3.34%-5.10%	n/r
Phosphorus	0.35% - 0.55%	n/r
Potassium	2.0% - 3.42%	n/r
Calcium	0.25%-0.5%	n/r
Magnesium	0.16%-0.32%	n/r
Sodium	229-1107 ppm	n/r

GREENS	Acceptable Range For Tissue Sample	10/21/24
Nitrogen	4.0%-6.0%	n/r
Phosphorus	0.34%-0.54%	n/r
Potassium	1.16%-2.44%	n/r
Calcium	0.53%-0.70%	n/r
Magnesium	0.13%-0.40%	n/r
Sodium	500-850 ppm	n/r

EAST COURSE TEE	Acceptable Range For Alkaline Soils Sample	E6 10/21/24
Organic Matter (Humus)	2 - 3%	3.46
Sulfur	12 - 16 ppm	267.00
Olsen - Phosphorus	13 - 20 ppm	39.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	3,602.00
Magnesium	>7% base saturation or at least 200 lbs/acre	24.24%/1,082
Potassium - TEC of 0 - 35	100 ppm	109.00
Manganese	>50 ppm	111.00

SOUTH/EAST FAIRWAYS	Acceptable Range For Alkaline Soils Sample	S1,E6(avg) 10/21/24
Organic Matter (Humus)	2 - 3%	4.12
Sulfur	12 - 16 ppm	294.00
Olsen - Phosphorus	13 - 20 ppm	47.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	4,157.00
Magnesium	>7% base saturation or at least 200 lbs/acre	24.75%/1,158
Potassium - TEC of 0 - 35	100 ppm	208.50
Manganese	>50 ppm	99.00

NORTH/SOUTH GREENS	Acceptable Range For Alkaline Soils Sample	S1,N6(avg) 10/21/24
Organic Matter (Humus)	2 - 3%	1.25
Sulfur	12 - 16 ppm	51.00
Olsen - Phosphorus	13 - 20 ppm	27.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,628.00
Magnesium	>7% base saturation or at least 200 lbs/acre	20.89%/324
Potassium - TEC of 0 - 35	150 ppm	59.50
Manganese	>50 ppm	78.00

EAST COURSE TEE	Acceptable Range For Saturated Paste Sample	6 10/21/24
Nitrate- Warm Season Grass	10 -15 ppm	5.70
Phosphorus	2 - 10 ppm	2.24
Potassium	40 - 100 ppm	32.49
Calcium	60 - 200 ppm	376.88
Magnesium	20 - 70 ppm	224.55
Sodium	0 - 30 ppm	943.79
Soluble Salts	<1,920 ppm	3,845.00
Bicarbonate	<60 ppm	198.98
Chloride	<1,000 ppm	2,269.00
SAR	<4%	9.51

EAST COURSE FAIRWAY	Acceptable Range For Saturated Paste Sample	6 10/21/24
Nitrate- Warm Season Grass	10 -15 ppm	5.40
Phosphorus	2 - 10 ppm	1.84
Potassium	40 - 100 ppm	25.93
Calcium	60 - 200 ppm	202.28
Magnesium	20 - 70 ppm	113.93
Sodium	0 - 30 ppm	526.54
Soluble Salts	<1,920 ppm	2,449.00
Bicarbonate	<60 ppm	130.05
Chloride	<1,000 ppm	847.00
SAR	<4%	7.34

EAST COURSE GREEN	Acceptable Range For Saturated Paste Sample	6 10/21/24
Nitrate -	1-3 ppm	6.90
Phosphorus	2 - 7 ppm	3.21
Potassium	25-40 ppm	35.75
Calcium	50- 75 ppm	87.36
Magnesium	15-30 ppm	42.23
Sodium	0 - 30 ppm	223.44
Soluble Salts	<1,000 ppm	1,156.00
Bicarbonate	<60 ppm	70.31
Chloride	<200 ppm	247.00
SAR	<4%	4.91

Nutrient Deficiencies

			K	Na
NORTH COURSE	TEE	6	244	907
SOUTH COURSE	TEE	1	93	205
EAST COURSE	TEE	6	109	784
NORTH COURSE	FAIRWAY	6	395	1102
SOUTH COURSE	FAIRWAY	1	264	673
EAST COURSE	FAIRWAY	6	153	712
NORTH COURSE	GREEN	6	35	74
SOUTH COURSE	GREEN	1	44	95
EAST COURSE	GREEN	6	75	187

Calcium can be added to greens in the form of gypsum at a rate of 10 pounds of product per 1,000 sq ft

Potassium can be added to greens in the form of gypsum at a rate of 3 pounds of product per 1,000 sq ft

Comments and Next Level Cultural Practices

- I think we should do some tissue samples on the Paspalum during the next visit. There are some tried and true values developed by Dr. Duncan and I have seen the chance to make more subtle fertility adjustments.
- I didn't average all results from a given area, like tees, together due to some of the extreme results. We should discuss it more when we go over the full report.
- The sodium numbers are very extreme, as you know. The fairway soil holds on to the water and everything that comes along with it. Where there is more sodium than potassium, the plant will always be weaker and more laid down.

