



SOIL AND WATER CONSULTING

Data Collection Report

Fall 2022

Date of Collection: 9/20/22

Client: El Dorado Golf & Beach Club



Testing Results

<u>9/20/22</u>	
Humidity/Air Temperature	85%/82°
Greens Temperature	(avg)80.4°
Fairways Temperature	(avg)81.4°

WATER	Acceptable Range For Water Sample	Hole #18 9/20/22
pH	6.50	7.41
EC	<2.25 mmhos/cm	0.87
Sodium		125.30
Calcium	20 - 60 ppm	37.24
Magnesium	10 - 25 ppm	9.78
Potassium	5 - 20 ppm	15.32
Phosphorus	0.1 - 0.4 ppm	1.90
Nitrate	5 - 50 ppm	5.57
Sulfur	30 - 90 ppm	64.44
Bicarbonate	<120 ppm	191.96
Boron	<0.67 ppm	0.30
Chloride	<177 ppm	148.25

TEES	Acceptable Range For Alkaline Soils Sample	1,9,18(avg) 9/20/22
Organic Matter (Humus)	2 - 3%	1.79
Sulfur	12 - 16 ppm	11.33
Olsen - Phosphorus	13 - 20 ppm	21.33
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,599.33
Magnesium	>7% base saturation or at least 200 lbs/acre	16.34%/230
Potassium - TEC of 0 - 35	100 ppm	81.67
Manganese	>50 ppm	111.67

FAIRWAYS	Acceptable Range For Alkaline Soils Sample	1,9,18(avg) 9/20/22
Organic Matter (Humus)	2 - 3%	2.32
Sulfur	12 - 16 ppm	61.67
Olsen - Phosphorus	13 - 20 ppm	69.00
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,776.00
Magnesium	>7% base saturation or at least 200 lbs/acre	12.6%/312
Potassium - TEC of 0 - 35	100 ppm	178.33
Manganese	>50 ppm	113.67

GREENS	Acceptable Range For Alkaline Soils Sample	1,9,18(avg) 9/20/22
Organic Matter (Humus)	2 - 3%	1.58
Sulfur	12 - 16 ppm	14.67
Olsen - Phosphorus	13 - 20 ppm	36.33
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,460.67
Magnesium	>7% base saturation or at least 200 lbs/acre	17.65%/239.33
Potassium - TEC of 0 - 35	150 ppm	122.33
Manganese	>50 ppm	153.00

TEE	Acceptable Range For Saturated Paste Sample	1,18(avg) 9/20/22
Nitrate - 419 bermudagrass	10 -15 ppm	5.30
Phosphorus	2 - 10 ppm	3.51
Potassium	40 - 100 ppm	19.64
Calcium	60 - 200 ppm	17.52
Magnesium	20 - 70 ppm	4.63
Sodium	0 - 30 ppm	85.09
Soluble Salts	<1,920 ppm	327.50
Bicarbonate	<60 ppm	75.91
Chloride	<1,000 ppm	57.50
SAR	<4%	4.66

FAIRWAY	Acceptable Range For Saturated Paste Sample	1,18(avg) 9/20/22
Nitrate - 419 bermudagrass	10 -15 ppm	12.20
Phosphorus	2 - 10 ppm	3.37
Potassium	40 - 100 ppm	63.56
Calcium	60 - 200 ppm	67.14
Magnesium	20 - 70 ppm	17.08
Sodium	0 - 30 ppm	359.30
Soluble Salts	<1,920 ppm	1,093.50
Bicarbonate	<60 ppm	196.86
Chloride	<1,000 ppm	296.00
SAR	<4%	9.78

GREENS	Acceptable Range For Saturated Paste Sample	1,18(avg) 9/20/22
Nitrate - Tifeagle Bermudagrass	3-5 ppm	12.30
Phosphorus	2 - 7 ppm	2.84
Potassium	25-40 ppm	19.41
Calcium	50- 75 ppm	15.03
Magnesium	15-30 ppm	4.55
Sodium	0 - 30 ppm	87.27
Soluble Salts	<1,000 ppm	375.00
Bicarbonate	<60 ppm	38.47
Chloride	<200 ppm	70.50
SAR	<4%	5.07