



SOIL AND WATER CONSULTING

Data Collection Report

Fall 2019

Date of Collection: 9/13/19

Client: Los Robles Greens Golf Course



Testing Results

	<u>9/12/18</u>	<u>9/13/19</u>
Humidity/Air Temperature	50%/84°	40%/92°
Greens Temperature	(avg)74.3°	(avg)68°
Fairway Temperature	76.8°	(avg)66.5°

WATER	Acceptable Range For Water Sample	Hole #7 9/12/18	Hole #1 9/13/19
pH	6.50	8.73	2.80
EC	<2.25 mmhos/cm	0.40	1.20
Sodium		44.55	55.04
Calcium	20 - 60 ppm	18.21	27.85
Magnesium	10 - 25 ppm	8.16	12.81
Potassium	5 - 20 ppm	4.52	2.95
Sulfur	30 - 90 ppm	37.53	228.39
Bicarbonate	<120 ppm	61.91	0.00
Boron	<0.67 ppm	0.22	0.17

FAIRWAY	Acceptable Range For Alkaline Soils Sample	14 9/12/18	3,7,18(avg) 9/13/19
Organic Matter (Humus)	2 - 3%	8.74	5.65
Sulfur	12 - 16 ppm	93.00	228.67
Olsen - Phosphorus	13 - 20 ppm	28.00	20.67
Calcium - TEC of 6 - 12	1,000 lbs/acre	4,776.00	5,977.33
Magnesium	>7% base saturation or at least 200 lbs/acre	27.05%/1,346	27.54%/1,694.66
Potassium - TEC of 0 - 35	100 ppm	469.00	639.00
Manganese	50-80 ppm	73.00	108.00

GREENS	Acceptable Range For Alkaline Soils Sample	1,5,18(avg) 9/12/18	3,5,9,13,15,17(avg) 9/13/19
Organic Matter (Humus)	2 - 3%	1.10	1.15
Sulfur	12 - 16 ppm	21.67	9.17
Olsen - Phosphorus	13 - 20 ppm	8.67	11.17
Calcium - TEC of 6 - 12	1,000 lbs/acre	1,530.67	1,441.33
Magnesium	>7% base saturation or at least 200 lbs/acre	17.54%/231.3	18.19%/228
Potassium - TEC of 0 - 35	150 ppm	110.33	126.50
Manganese	50-80 ppm	31.67	40.83

FAIRWAY	Acceptable Range For Saturated Paste Sample	14 9/12/18	3,7(avg) 9/13/19
Nitrate	10 -15 ppm	<0.5	40.15
Phosphorus	2 - 10 ppm	0.85	1.75
Potassium	40 - 100 ppm	81.29	104.16
Calcium	60 - 200 ppm	307.83	228.76
Magnesium	20 - 70 ppm	159.64	112.44
Sodium	0 - 30 ppm	277.16	147.08
Soluble Salts	<1,920 ppm	2,390.00	1,504.50
Bicarbonate	<60 ppm	224.52	292.85
Chloride	<1,000 ppm	175.00	245.50
SAR	<4%	3.19	2.05

GREENS	Acceptable Range For Saturated Paste Sample	1,5,18(avg) 9/12/18	3,5,15(avg) 9/13/19
Nitrate- Bentgrass/poa	1-3 ppm	<0.5	4.50
Phosphorus	2 - 7 ppm	3.24	4.31
Potassium	25-40 ppm	37.30	26.82
Calcium	50- 75 ppm	46.63	18.33
Magnesium	15-30 ppm	17.36	5.88
Sodium	0 - 30 ppm	54.46	37.56
Soluble Salts	<1,000 ppm	399.00	257.67
Bicarbonate	<60 ppm	147.24	77.62
Chloride	<200 ppm	54.00	26.33
SAR	<4%	1.73	1.95