



SOIL AND WATER CONSULTING

Data Collection Report

Fall 2020

Date of Collection: 9/11/20

Client: Jumping Brook Country Club



Testing Results

	<u>10/5/18</u>	<u>10/18/19</u>	<u>9/11/20</u>
Humidity/Air Temperature	55%/70°	50%/58°	80%/75°
Greens Temperature	(avg)67.5°	(avg)51°	(avg)75°
Fairways Temperature	(avg)69.6°	(avg)52.5°	(avg)76.25°

WATER	Acceptable Range For Water Sample	Sprinkler Head <u>10/20/17</u>	Pond <u>10/18/19</u>	Pond <u>9/11/20</u>
EC	<2.25 mmhos/cm	0.29	0.22	0.19
Sodium		33.57	23.39	24.74
Calcium	20 - 60 ppm	16.92	11.92	5.28
Magnesium	10 - 25 ppm	2.92	2.57	1.34
Potassium	5 - 20 ppm	3.32	3.80	10.63
Sulfur	30 - 90 ppm	17.06	17.21	42.12
Bicarbonate	<120 ppm	32.21	30.24	10.89
Boron	<0.67 ppm	<0.05	<0.05	<0.05
Chloride	<177 ppm	54.81	36.59	33.19

TEE	Acceptable Range For Standard Soil Sample	1,8,17(avg) 10/5/18	2,9(avg) 10/18/19	11,13,15(avg) 9/11/20
Organic Matter (Humus)	2 - 3%	3.41	3.14	1.96
Sulfur	50 - 100 ppm	20.33	26.00	15.67
Mehlich III - Phosphorus	350 lbs/acre	740.33	1,037.50	685.67
Calcium	68%	76.19	72.46	70.12
Magnesium	15%	11.45	14.48	11.62
Potassium	5%	4.07	6.28	4.94
Sodium	<2%	2.28	2.39	3.09
Boron	1 - 1.5 ppm	0.59	0.65	0.53
Iron	120 ppm	318.67	372.50	379.00
Manganese	50 ppm	15.67	22.50	28.67

FAIRWAY	Acceptable Range For Standard Soil Sample	1,8,17(avg) 10/5/18	2,9,12(avg) 10/18/19	Low 8,13,17(avg) 9/11/20
Organic Matter (Humus)	2 - 3%	4.45	4.75	4.21
Sulfur	50 - 100 ppm	23.67	30.67	23.00
Mehlich III - Phosphorus	350 lbs/acre	632.00	600.00	687.00
Calcium	68%	66.70	67.91	69.77
Magnesium	15%	11.84	11.34	9.40
Potassium	5%	4.24	4.75	4.09
Sodium	<2%	2.20	1.99	2.23
Boron	1 - 1.5 ppm	0.51	0.61	0.52
Iron	120 ppm	376.00	385.00	375.67
Manganese	50 ppm	4.33	3.67	10.67

GREENS	Acceptable Range For Standard Soil Sample	1,8,17(avg) 10/5/18	2,9,12(avg) 10/18/19	11,13,15(avg) 9/11/20
Organic Matter (Humus)	2 - 3%	4.17	4.11	3.05
Sulfur	50 - 100 ppm	20.00	30.33	22.00
Mehlich III - Phosphorus	350 lbs/acre	1,577.00	1,368.00	1,424.33
Calcium	68%	77.84	74.14	73.19
Magnesium	15%	9.44	11.15	8.10
Potassium	5%	2.94	4.84	3.49
Sodium	<2%	1.67	1.72	1.72
Boron	1 - 1.5 ppm	0.62	0.70	0.60
Iron	120 ppm	339.67	319.67	363.67
Manganese	50 ppm	10.33	10.67	14.33

TEE	Acceptable Range For Saturated Paste Sample	1,17 (avg) 10/5/18	2 10/18/19	13,15(avg) 9/11/20
Nitrate-Cool season	5 - 10 ppm	9.40	14.50	<0.55
Phosphorus	2 - 10 ppm	0.75	0.48	0.31
Potassium	40 - 100 ppm	13.75	54.03	28.62
Calcium	60 - 200 ppm	18.80	42.73	25.83
Magnesium	20 - 70 ppm	4.26	10.04	5.15
Sodium	0 - 30 ppm	12.09	27.39	21.93
Soluble Salts	<1,920 ppm	149.50	419.00	226.50
Bicarbonate	<60 ppm	45.15	33.63	77.81
Chloride	<1,000 ppm	16.00	65.00	38.50
SAR	<4%	0.66	0.98	1.05

FAIRWAY	Acceptable Range For Saturated Paste Sample	1,17 (avg) 10/5/18	2,12 (avg) 10/18/19	13,17(avg) 9/11/20
Nitrate-Cool season	5 - 10 ppm	13.50	14.70	5.70
Phosphorus	2 - 10 ppm	0.81	0.57	0.83
Potassium	40 - 100 ppm	24.11	66.91	36.43
Calcium	60 - 200 ppm	21.57	49.48	33.13
Magnesium	20 - 70 ppm	6.11	11.48	5.98
Sodium	0 - 30 ppm	17.29	26.79	19.57
Soluble Salts	<1,920 ppm	194.00	467.00	269.00
Bicarbonate	<60 ppm	31.73	28.93	60.40
Chloride	<1,000 ppm	19.50	91.00	47.50
SAR	<4%	0.82	0.89	0.86

GREENS	Acceptable Range For Saturated Paste Sample	1,17 (avg) 10/5/18	2,12 (avg) 10/18/19	13,15(avg) 9/11/20
Nitrate - Bentgrass/Poa	1-3 ppm	3.00	9.25	3.85
Phosphorus	2 - 7 ppm	2.16	1.31	1.58
Potassium	25-40 ppm	10.08	50.46	24.09
Calcium	50- 75 ppm	11.08	36.55	23.24
Magnesium	15-30 ppm	2.63	8.16	3.69
Sodium	0 - 30 ppm	8.93	20.34	14.88
Soluble Salts	<1,000 ppm	89.00	336.00	190.50
Bicarbonate	<60 ppm	28.06	16.87	19.19
Chloride	<200 ppm	10.50	53.00	22.00
SAR	<4%	0.63	0.80	0.76