



SOIL AND WATER CONSULTING

Data Collection Report

Spring 2018

Date of Collection: 4/18/18

Client: Jumping Brook Country Club



Testing Results

	<u>4/23/16</u>	<u>4/19/17</u>	<u>4/18/18</u>
Humidity/Air Temperature	100%/65°	47%/57°	55%/48°
Green Temperature	(avg) 58.9°	(avg) 60°	(avg) 43.8°
Fairway Temperature	n/r	n/r	(avg) 45.1°

WATER	Acceptable Range For Water Sample	Sprinkler head <u>4/23/16</u>	Green #6 <u>4/25/17</u>	Sprinkler Head <u>4/18/18</u>
EC	<2.25 mmhos/cm	0.28	0.16	0.59
Sodium		29.05	17.21	85.81
Calcium	20 - 60 ppm	15.21	8.27	17.30
Magnesium	10 - 25 ppm	3.17	1.87	3.18
Potassium	5 - 20 ppm	3.85	2.55	4.18
Sulfur	30 - 90 ppm	33.30	14.22	26.89
Bicarbonate	<120 ppm	21.60	44.29	26.14
Boron	<0.67 ppm	<0.50	<0.05	<0.05
Chloride	<177 ppm	38.30	18.72	137.87



TEE	Acceptable Range For Standard Soil Sample	5,10,16(avg) 4/18/18
Organic Matter (Humus)	2 - 3%	2.88
Sulfur	50 - 100 ppm	16.67
Mehlich III - Phosphorus	350 lbs/acre	812.33
Calcium	68%	76.88
Magnesium	15%	13.77
Potassium	5%	3.35
Sodium	<2%	1.90
Boron	1 - 1.5 ppm	0.45
Iron	120 ppm	371.67
Manganese	50 ppm	18.00

FAIRWAY	Acceptable Range For Standard Soil Sample	5,10,16(avg) 4/18/18
Organic Matter (Humus)	2 - 3%	3.55
Sulfur	50 - 100 ppm	15.00
Mehlich III - Phosphorus	350 lbs/acre	410.67
Calcium	68%	72.58
Magnesium	15%	15.56
Potassium	5%	3.70
Sodium	<2%	2.24
Boron	1 - 1.5 ppm	1.45
Iron	120 ppm	268.67
Manganese	50 ppm	3.00

GREENS	Acceptable Range For Standard Soil Sample	3,6,10,13,18 (avg) 4/23/16	5,13,14,16(avg) 4/19/17	5,10,16(avg) 4/18/18
Organic Matter (Humus)	2 - 3%	4.49	3.59	3.69
Sulfur	50 - 100 ppm	26.80	16.25	13.00
Mehlich III - Phosphorus	350 lbs/acre	1,430.80	1,320.00	1,270.00
Calcium	68%	71.26	75.31	78.55
Magnesium	15%	9.84	10.54	11.07
Potassium	5%	3.69	4.03	3.57
Sodium	<2%	1.86	1.72	1.40
Boron	1 - 1.5 ppm	0.59	0.58	0.65
Iron	120 ppm	374.00	415.25	319.00
Manganese	50 ppm	8.00	11.50	8.33

TEE	Acceptable Range For Saturated Paste Sample	5,16 (avg) 4/18/18
Nitrate-Cool season	5 - 10 ppm	1.30
Phosphorus	2 - 10 ppm	1.05
Potassium	40 - 100 ppm	19.07
Calcium	60 - 200 ppm	50.98
Magnesium	20 - 70 ppm	9.85
Sodium	0 - 30 ppm	11.99
Soluble Salts	<1,920 ppm	231.50
Bicarbonate	<60 ppm	89.08
Chloride	<1,000 ppm	13.50
SAR	<4%	0.40

FAIRWAY	Acceptable Range For Saturated Paste Sample	5,16 (avg) 4/18/18
Nitrate-Cool season	5 - 10 ppm	<0.5
Phosphorus	2 - 10 ppm	0.68
Potassium	40 - 100 ppm	15.85
Calcium	60 - 200 ppm	29.20
Magnesium	20 - 70 ppm	7.92
Sodium	0 - 30 ppm	7.70
Soluble Salts	<1,920 ppm	178.00
Bicarbonate	<60 ppm	90.30
Chloride	<1,000 ppm	14.50
SAR	<4%	0.33

GREENS	Acceptable Range For Saturated Paste Sample	3,6,10,13,18 (avg) 4/23/16	CPG, 5, 13,14,16 (avg) 4/19/17	5,16 (avg) 4/18/18
Nitrate - Bentgrass/Poa	1-3 ppm	<0.5	<0.92	<0.5
Phosphorus	2 - 7 ppm	2.86	2.89	2.37
Potassium	25-40 ppm	26.34	16.28	13.93
Calcium	50- 75 ppm	24.86	14.41	14.60
Magnesium	15-30 ppm	5.22	3.41	4.17
Sodium	0 - 30 ppm	8.86	5.40	6.11
Soluble Salts	<1,000 ppm	165.60	106.60	99.00
Bicarbonate	<60 ppm	34.17	59.06	46.37
Chloride	<200 ppm	6.20	9.60	6.50
SAR	<4%	0.42	0.33	0.37