



SOIL AND WATER CONSULTING

Data Collection Report

Spring 2018

Client: Canyon Gate Country Club



Why use Wet Analysis over NIR?

Near Infrared Light (NIR) can seem like a less costly option, but while it is good for nitrogen (protein content) and a few other elements, it does not work well for calcium, magnesium, etc. Wet Analysis provides a more complete picture of the plant, allowing more accurate results.

Testing Results

	<u>3/7/18</u>	<u>4/13/18</u>
Humidity/Air Temperature	11%/57°	n/r
Greens Soil Temperature	51°	n/r
Times of Sample Collection	n/r	6:15 am-7:15 am

	<u>4/9/18</u>	<u>4/12/18</u>
Nutrients Sprayed	K,Si	N,P,K,Ca,Mn

	<u>Acceptable Range For Water Sample</u>	<u>Direct Pipe 3/7/18</u>
EC	<2.25 mmhos/cm	1.78
Sodium		222.10
Calcium	20 - 60 ppm	78.45
Magnesium	10 - 25 ppm	23.65
Potassium	5 - 20 ppm	20.88
Nitrate	10-25 ppm	16.04
Phosphorus	0.1-0.4 ppm	1.35
Sulfur	30 - 90 ppm	226.38
Bicarbonate	<120 ppm	148.11
Boron	<0.67 ppm	0.35
Chloride	<177 ppm	292.59

GREENS	<u>Acceptable Range For Tissue Sample</u>	<u>Even # Greens (avg) 3/7/18</u>	<u>1,7,11 (avg) 4/13/18</u>
Nitrogen	3.0%-6.5%	5.34	6.35
Phosphorus	0.2%-0.55%	0.59	0.61
Potassium	0.86%-2.55%	2.32	2.46
Calcium	0.21%-0.50%	0.56	0.61
Magnesium	0.09%-0.22%	0.30	0.33
Sulfur	0.23%-0.39%	0.59	0.75
Boron	5-24 ppm	41.62	48.17
Iron	99-500 ppm	570.89	196.67
Manganese	30-160 ppm	408.11	425.00
Copper	9-40 ppm	64.40	59.43
Zinc	5-60 ppm	75.57	102.93
Aluminum	63- 408 ppm	199.89	86.70
Sodium	506- 2264 ppm	4,646.67	5,206.67

