

|                          | <u>7/26/23</u> |
|--------------------------|----------------|
| Humidity/Air Temperature | 50%/80°        |
| Green's Soil Temperature | (avg) 74°      |

| <b>WATER</b> | <b>Acceptable Range<br/>For Water Sample</b> | <b>Hole #9<br/>7/26/23</b> |
|--------------|----------------------------------------------|----------------------------|
| EC           | <2.25 mmhos/cm                               | 0.32                       |
| Sodium       |                                              | 25.21                      |
| Calcium      | 20 - 60 ppm                                  | 23.60                      |
| Magnesium    | 10 - 25 ppm                                  | 6.62                       |
| Potassium    | 5 - 20 ppm                                   | 2.87                       |
| Sulfur       | 30 - 90 ppm                                  | 7.00                       |
| Bicarbonate  | <120 ppm                                     | 96.25                      |
| Boron        | <0.67 ppm                                    | 0.08                       |
| Chloride     | <177 ppm                                     | 43.40                      |



| <b>GREENS</b>            | <b>Acceptable Range For<br/>Standard Soil Sample</b> | <b>3,14(avg)<br/>7/26/23</b> | <b>6<br/>7/26/23</b> | <b>9<br/>7/26/23</b> |
|--------------------------|------------------------------------------------------|------------------------------|----------------------|----------------------|
| Organic Matter (Humus)   | 2 - 3%                                               | 2.96                         | 0.86                 | 1.81                 |
| Sulfur                   | 50 - 100 ppm                                         | 15.50                        | 6.00                 | 7.00                 |
| Mehlich III - Phosphorus | 350 lbs/acre                                         | 1,083.00                     | 151.00               | 311.00               |
| Calcium                  | 68%                                                  | 74.55                        | 67.36                | 71.64                |
| Magnesium                | 15%                                                  | 10.99                        | 15.50                | 13.44                |
| Potassium                | 5%                                                   | 2.09                         | 2.75                 | 3.38                 |
| Sodium                   | <2%                                                  | 2.39                         | 3.41                 | 2.45                 |
| Boron                    | 1 - 1.5 ppm                                          | 0.67                         | <0.20                | 0.37                 |
| Iron                     | 120 ppm                                              | 371.50                       | 103.00               | 225.00               |
| Manganese                | 50 ppm                                               | 17.50                        | 10.00                | 11.00                |

|                           | Green #4 | Green #14 | Green #14 | Greens<br>Topdress |                                    |
|---------------------------|----------|-----------|-----------|--------------------|------------------------------------|
|                           | 0- 8"    | 0- 4"     | Below 4"  | Sand               | USGA Recommendations               |
| Clay                      | 0.20     | 0.20      | 22.70     | 0.20               | <= 5.0%                            |
| Silt                      | 2.30     | 0.20      | 5.10      | 0.70               | <= 3.0%                            |
| Sand                      | 95.70    | 95.80     | 68.50     | 99.10              | 94 - 100%                          |
| Gravel                    | 1.80     | 3.80      | 3.70      | 0.00               |                                    |
| Organic Material          | 1.47     | 2.95      | 3.19      | <0.10              |                                    |
| <b>Sieve #:</b>           |          |           |           |                    |                                    |
| Fine Gravel 10            | 1.80     | 3.80      | 3.70      | 0.00               | 2.0mm <= 3.0%                      |
| Very Coarse Sand 18       | 5.40     | 3.50      | 6.90      | 0.30               | 2.0mm + 1.0mm <= 10%               |
| Coarse Sand 35            | 22.20    | 25.00     | 16.90     | 26.40              |                                    |
| Medium Sand 60            | 44.10    | 47.40     | 24.30     | 50.70              | 0.5mm + 0.25mm >= 60%              |
| Fine Sand 100             | 18.70    | 16.10     | 11.00     | 18.60              | 0.15mm <= 20%                      |
| Very Fine Sand 140        | 4.10     | 2.50      | 8.60      | 2.90               | 0.106mm + 0.053mm <= 5.0%          |
| Very Fine Sand 270        | 1.30     | 1.40      | 0.80      | 0.20               |                                    |
| Infiltration Rate in/hr   | 1.7"     | n/r       | <0.5"     | 23.0"              | Greater than 6" per hour           |
| Coefficient of Uniformity | 2.72     | 2.47      | 7.43      | 2.38               | 1.8 to 3.5 for peat and sand mixes |

Green #4



Green #14



### ***Nutrient Deficiencies***

|       |    | Ca   | Mg  | K  | Mn |
|-------|----|------|-----|----|----|
| GREEN | 3  | 2160 | 214 | 56 | 17 |
| GREEN | 6  | 584  | 66  | 15 | 7  |
| GREEN | 10 | 970  | 106 | 27 | 12 |
| GREEN | 13 | 518  | 94  | 14 | 7  |

### ***Nutrient Deficiencies***

|       |    | Ca   | Mg  | K  | Mn |
|-------|----|------|-----|----|----|
| GREEN | 1  | 1066 | 120 | 49 | 11 |
| GREEN | 3  | 2784 | 258 | 76 | 18 |
| GREEN | 6  | 652  | 90  | 26 | 10 |
| GREEN | 14 | 2232 | 188 | 61 | 17 |

Calcium can be added in the form of gypsum at a rate of 5 pounds of product per 1,000 sq ft for the next two months

Magnesium can be added in the form of Pro-Mag 36 at a rate of 3 pounds of product per 1,000 sq ft at aerification.

Potassium can be added in the form of 0-0-50 at a rate of 2 pounds of product per 1,000 sq ft for the next four months.

Manganese can be added in the form of Manganese Oxide at a rate of 3 pounds of product per 1,000 sq ft in September, October and November.

### **Comments and next Level Cultural Practices**

- Work on all nutrient deficiencies