



# SOIL AND WATER CONSULTING

## Data Collection Report

Summer 2021

Date of Collection: 6/10/21

Client: Tamarack Golf Course



## Testing Results

|                          |                |
|--------------------------|----------------|
|                          | <u>6/10/21</u> |
| Humidity/Air Temperature | 35%/82°        |
| Green Temperature        | (avg)80.3°     |

| <b>WEST COURSE GREENS</b> | <b>Acceptable Range For<br/>Saturated Paste Sample</b> | <b>1,3,5,6,15(avg)<br/>6/10/21</b> |
|---------------------------|--------------------------------------------------------|------------------------------------|
| Nitrate - Bentgrass/Poa   | 1-3 ppm                                                | <0.5                               |
| Phosphorus                | 2 - 7 ppm                                              | 0.42                               |
| Potassium                 | 25-40 ppm                                              | 26.07                              |
| Calcium                   | 50- 75 ppm                                             | 20.40                              |
| Magnesium                 | 15-30 ppm                                              | 6.58                               |
| Sodium                    | 0 - 30 ppm                                             | 37.94                              |
| Soluble Salts             | <1,000 ppm                                             | 258.40                             |
| Bicarbonate               | <60 ppm                                                | 83.32                              |
| Chloride                  | <200 ppm                                               | 68.80                              |
| SAR                       | <4%                                                    | 1.88                               |

| <b>EAST COURSE GREENS</b> | <b>Acceptable Range For<br/>Saturated Paste Sample</b> | <b>1,3(avg)<br/>6/10/21</b> |
|---------------------------|--------------------------------------------------------|-----------------------------|
| Nitrate - Bentgrass/Poa   | 1-3 ppm                                                | <0.5                        |
| Phosphorus                | 2 - 7 ppm                                              | 0.30                        |
| Potassium                 | 25-40 ppm                                              | 19.74                       |
| Calcium                   | 50- 75 ppm                                             | 26.04                       |
| Magnesium                 | 15-30 ppm                                              | 7.02                        |
| Sodium                    | 0 - 30 ppm                                             | 12.10                       |
| Soluble Salts             | <1,000 ppm                                             | 179.50                      |
| Bicarbonate               | <60 ppm                                                | 54.75                       |
| Chloride                  | <200 ppm                                               | 12.00                       |
| SAR                       | <4%                                                    | 0.56                        |

| <b>WEST COURSE GREENS</b> | <b>Acceptable Range For<br/>Standard Soil Sample</b> | <b>1,3,5,6,15(avg)<br/>6/10/21</b> |
|---------------------------|------------------------------------------------------|------------------------------------|
| Organic Matter (Humus)    | 2 - 3%                                               | 1.86                               |
| Sulfur                    | 50 - 100 ppm                                         | 15.20                              |
| Mehlich III - Phosphorus  | 350 lbs/acre                                         | 460.00                             |
| Calcium                   | 68%                                                  | 57.01                              |
| Magnesium                 | 15%                                                  | 14.53                              |
| Potassium                 | 5%                                                   | 4.34                               |
| Sodium                    | <2%                                                  | 4.06                               |
| Boron                     | 1 - 1.5 ppm                                          | 0.49                               |
| Iron                      | 120 ppm                                              | 404.60                             |
| Manganese                 | 50 ppm                                               | 13.80                              |

| <b>EAST COURSE GREENS</b> | <b>Acceptable Range For<br/>Standard Soil Sample</b> | <b>1,3(avg)<br/>6/10/21</b> |
|---------------------------|------------------------------------------------------|-----------------------------|
| Organic Matter (Humus)    | 2 - 3%                                               | 2.40                        |
| Sulfur                    | 50 - 100 ppm                                         | 22.50                       |
| Mehlich III - Phosphorus  | 350 lbs/acre                                         | 329.50                      |
| Calcium                   | 68%                                                  | 64.91                       |
| Magnesium                 | 15%                                                  | 12.97                       |
| Potassium                 | 5%                                                   | 3.41                        |
| Sodium                    | <2%                                                  | 3.41                        |
| Boron                     | 1 - 1.5 ppm                                          | 0.55                        |
| Iron                      | 120 ppm                                              | 385.50                      |
| Manganese                 | 50 ppm                                               | 13.50                       |