



Client: Braemar Country Club

## Spring 2025 Report

|                          | <u>3/19/24</u> | <u>4/23/25</u> |
|--------------------------|----------------|----------------|
| Humidity/Air Temperature | 30%/75°        | 65%/65°        |
| Greens Temperature       | (avg)49°       | (avg)60°       |
| Fairway Temperature      | (avg)52°       | (avg)61°       |

| <b>WATER</b> | <b>Acceptable Range<br/>For Water Sample</b> | <b>US Open Hole #1<br/><u>3/19/24</u></b> | <b>Western Hole #1<br/><u>4/23/25</u></b> |
|--------------|----------------------------------------------|-------------------------------------------|-------------------------------------------|
| EC           | <2.25 mmhos/cm                               | 1.81                                      | 0.48                                      |
| Sodium       |                                              | 104.30                                    | 44.18                                     |
| Calcium      | 20 - 60 ppm                                  | 213.17                                    | 32.31                                     |
| Magnesium    | 10 - 25 ppm                                  | 82.53                                     | 12.51                                     |
| Potassium    | 5 - 20 ppm                                   | 6.97                                      | 2.82                                      |
| Sulfur       | 30 - 90 ppm                                  | 606.97                                    | 75.28                                     |
| Bicarbonate  | <120 ppm                                     | 373.33                                    | 11.91                                     |
| Boron        | <0.67 ppm                                    | 0.47                                      | 0.24                                      |
| Chloride     | <177 ppm                                     | 151.49                                    | 42.55                                     |



SOIL AND WATER CONSULTING

| <b>WESTERN TEES</b>       | <b>Acceptable Range For<br/>Alkaline Soils Sample</b> | <b>US 2,6(avg)<br/>3/19/24</b> | <b>6<br/>4/23/25</b> |
|---------------------------|-------------------------------------------------------|--------------------------------|----------------------|
| Organic Matter (Humus)    | 2 - 3%                                                | 0.80                           | 0.98                 |
| Sulfur                    | 12 - 16 ppm                                           | 56.50                          | 31.00                |
| Olsen - Phosphorus        | 13 - 20 ppm                                           | 6.50                           | 4.00                 |
| Calcium - TEC of 6 - 12   | 1,000 lbs/acre                                        | 2,485.00                       | 1,228.00             |
| Magnesium                 | >7% base saturation or at<br>least 200 lbs/acre       | 17.59%/342                     | 23.78%/270           |
| Potassium - TEC of 0 - 35 | 100 ppm                                               | 48.50                          | 70.00                |
| Manganese                 | 50-80 ppm                                             | 33.50                          | 22.00                |

| <b>WESTERN FAIRWAYS</b>   | <b>Acceptable Range For<br/>Alkaline Soils Sample</b> | <b>US 2,6(avg)<br/>3/19/24</b> | <b>6<br/>4/23/25</b> |
|---------------------------|-------------------------------------------------------|--------------------------------|----------------------|
| Organic Matter (Humus)    | 2 - 3%                                                | 6.71                           | 4.10                 |
| Sulfur                    | 12 - 16 ppm                                           | 76.00                          | 961.00               |
| Olsen - Phosphorus        | 13 - 20 ppm                                           | 67.50                          | 33.00                |
| Calcium - TEC of 6 - 12   | 1,000 lbs/acre                                        | 5,415.00                       | 5,008.00             |
| Magnesium                 | >7% base saturation or at<br>least 200 lbs/acre       | 18.44%/840                     | 25.93%/1,284         |
| Potassium - TEC of 0 - 35 | 100 ppm                                               | 229.50                         | 337,56               |
| Manganese                 | 50-80 ppm                                             | 18.00                          | 0.00                 |

| <b>WESTERN GREENS</b>     | <b>Acceptable Range For<br/>Alkaline Soils Sample</b> | <b>Range, US 2,6,8(avg)<br/>3/19/24</b> | <b>1,2,5,6,8(avg)<br/>4/23/25</b> |
|---------------------------|-------------------------------------------------------|-----------------------------------------|-----------------------------------|
| Organic Matter (Humus)    | 2 - 3%                                                | 0.69                                    | 0.61                              |
| Sulfur                    | 12 - 16 ppm                                           | 14.50                                   | 17.00                             |
| Olsen - Phosphorus        | 13 - 20 ppm                                           | 2.50                                    | 3.40                              |
| Calcium - TEC of 6 - 12   | 1,000 lbs/acre                                        | 1,585.00                                | 1,450.80                          |
| Magnesium                 | >7% base saturation or at<br>least 200 lbs/acre       | 12.79%/152                              | 16.58%/193.6                      |
| Potassium - TEC of 0 - 35 | 150 ppm                                               | 44.00                                   | 50.80                             |
| Manganese                 | 50-80 ppm                                             | 15.00                                   | 13.00                             |

| <b>WESTERN TEE</b>    | <b>Acceptable Range For<br/>Saturated Paste Sample</b> | <b>3/19/24</b> | <b>6<br/>4/23/25</b> |
|-----------------------|--------------------------------------------------------|----------------|----------------------|
| Nitrate -Bermudagrass | 10-15 ppm                                              | n/r            | n/r                  |
| Phosphorus            | 2 - 10 ppm                                             | n/r            | n/r                  |
| Potassium             | 40 - 100 ppm                                           | n/r            | n/r                  |
| Calcium               | 60 - 200 ppm                                           | n/r            | n/r                  |
| Magnesium             | 20 - 70 ppm                                            | n/r            | n/r                  |
| Sodium                | 0 - 30 ppm                                             | n/r            | n/r                  |
| Soluble Salts         | <1,920 ppm                                             | n/r            | n/r                  |
| Bicarbonate           | <60 ppm                                                | n/r            | n/r                  |
| Chloride              | <1,000 ppm                                             | n/r            | n/r                  |
| SAR                   | <4%                                                    | n/r            | n/r                  |

| <b>WESTERN FAIRWAY</b> | <b>Acceptable Range For<br/>Saturated Paste Sample</b> | <b>US 2<br/>3/19/24</b> | <b>6<br/>4/23/25</b> |
|------------------------|--------------------------------------------------------|-------------------------|----------------------|
| Nitrate -Bermudagrass  | 10-15 ppm                                              | <0.5                    | n/r                  |
| Phosphorus             | 2 - 10 ppm                                             | 1.33                    | n/r                  |
| Potassium              | 40 - 100 ppm                                           | 21.10                   | n/r                  |
| Calcium                | 60 - 200 ppm                                           | 159.52                  | n/r                  |
| Magnesium              | 20 - 70 ppm                                            | 39.47                   | n/r                  |
| Sodium                 | 0 - 30 ppm                                             | 57.16                   | n/r                  |
| Soluble Salts          | <1,920 ppm                                             | 637.00                  | n/r                  |
| Bicarbonate            | <60 ppm                                                | 110.33                  | n/r                  |
| Chloride               | <1,000 ppm                                             | 21.00                   | n/r                  |
| SAR                    | <4%                                                    | 1.05                    | n/r                  |

| <b>US OPEN GREEN</b>       | <b>Acceptable Range For<br/>Saturated Paste Sample</b> | <b>Range<br/>3/19/24</b> | <b>2,6(avg)<br/>4/23/25</b> |
|----------------------------|--------------------------------------------------------|--------------------------|-----------------------------|
| Nitrate - 007 XL Bentgrass | 1-3 ppm                                                | <0.5                     | 2.20                        |
| Phosphorus                 | 2 - 7 ppm                                              | 2.55                     | 1.38                        |
| Potassium                  | 25-40 ppm                                              | 10.79                    | 8.68                        |
| Calcium                    | 50- 75 ppm                                             | 25.16                    | 19.98                       |
| Magnesium                  | 15-30 ppm                                              | 6.35                     | 5.14                        |
| Sodium                     | 0 - 30 ppm                                             | 7.78                     | 24.74                       |
| Soluble Salts              | <1,000 ppm                                             | 140.00                   | 204.50                      |
| Bicarbonate                | <60 ppm                                                | 71.19                    | 73.62                       |
| Chloride                   | <200 ppm                                               | 8.00                     | 18.50                       |

## Nutrient Deficiencies

|         |         |   | P   | K   | Mn |
|---------|---------|---|-----|-----|----|
| WESTERN | TEE     | 6 | 4   | 70  | 22 |
| WESTERN | FAIRWAY | 6 | 33  | 337 | 56 |
| WESTERN | GREEN   | 1 | < 2 | 39  | 13 |
| WESTERN | GREEN   | 2 | 5   | 53  | 13 |
| WESTERN | GREEN   | 5 | 2   | 60  | 12 |
| WESTERN | GREEN   | 6 | 3   | 56  | 13 |
| WESTERN | GREEN   | 8 | 5   | 46  | 14 |

Potassium can be added in the form of 0-0-50 at a rate of 2 pounds of product per 1,000 sq ft monthly

Phosphorus can be added in the form of 11-55-00 at a rate of 3 pounds of product per 1,000 sq ft

Manganese can be added in the form of Manganese Oxide or Sulfate at a rate of 3 pounds of product per 1,000 sq ft

### Comments

- The greens had been recently aerified and top-dressed when I was there. I thought the greens were in a good position with regards to root depth and turf density. I recommend "growing" the grass at this stage to keep the position they are in. Meaning, they may not be the best to put on, but they are smooth and healthy.
- Continue to use the WCS&G 90/10 Sand to top-dress both the US Open and Western Greens.
- The recommendations for fertility are twofold; the 0-0-50 will be ongoing due to the way the greens move water rapidly and the P and Manganese will need to be worked on until we hit a better level and then you can just maintain from Phosphorus and Mn from there.

