

lb/A

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

55476-24

Name Coyote Springs Golf Club City Coyote Springs State NVIndependent Consultant Soil and Water Consulting Date 3/28/2025

|                                    |                          |                                                     |         |         |  |  |
|------------------------------------|--------------------------|-----------------------------------------------------|---------|---------|--|--|
| Sample Location                    | TEE                      | 5                                                   | 14      |         |  |  |
| Sample Identification              |                          |                                                     |         |         |  |  |
| Lab Number                         |                          | 0177-1                                              | 0178-1  |         |  |  |
| Total Exchange Capacity (ME/100 g) |                          | 14.22                                               | 14.97   |         |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          | a 8.7                                               | a 8.5   |         |  |  |
| Organic Matter (360°C LOI) %       |                          | 1.67                                                | 2.47    |         |  |  |
| Estimated Nitrogen Release         | lb/A                     | 53                                                  | 69      |         |  |  |
| ANIONS                             | SOLUBLE SULFUR*          | ppm                                                 | 28      | 26      |  |  |
|                                    | MEHLICH III              | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |         |         |  |  |
|                                    | BRAY II                  | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |         |         |  |  |
|                                    | OLSEN                    | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P | 32<br>7 | 32<br>7 |  |  |
| EXCHANGEABLE<br>CATIONS            | CALCIUM*                 | lb/A                                                | 4098    | 4182    |  |  |
|                                    |                          | ppm                                                 | 2049    | 2091    |  |  |
|                                    | MAGNESIUM*               | lb/A                                                | 574     | 628     |  |  |
|                                    |                          | ppm                                                 | 287     | 314     |  |  |
|                                    | POTASSIUM*               | lb/A                                                | 486     | 660     |  |  |
|                                    |                          | ppm                                                 | 243     | 330     |  |  |
|                                    | SODIUM*                  | lb/A                                                | 264     | 286     |  |  |
|                                    |                          | ppm                                                 | 132     | 143     |  |  |
| BASE SATURATION PERCENT            |                          |                                                     |         |         |  |  |
|                                    | Calcium                  | %                                                   | 72.05   | 69.84   |  |  |
|                                    | Magnesium                | %                                                   | 16.82   | 17.48   |  |  |
|                                    | Potassium                | %                                                   | 4.38    | 5.65    |  |  |
|                                    | Sodium                   | %                                                   | 4.04    | 4.15    |  |  |
|                                    | Other Bases              | %                                                   | 2.70    | 2.90    |  |  |
|                                    | Hydrogen                 | %                                                   | 0.00    | 0.00    |  |  |
| EXTRACTABLE MINORS                 |                          |                                                     |         |         |  |  |
|                                    | Boron** (ppm)            |                                                     | 1.10    | 1.22    |  |  |
|                                    | Iron** (ppm)             |                                                     | 17      | 25      |  |  |
|                                    | Manganese** (ppm)        |                                                     | 18      | 24      |  |  |
|                                    | Copper** (ppm)           |                                                     | 0.95    | 0.84    |  |  |
|                                    | Zinc** (ppm)             |                                                     | 3.35    | 3.22    |  |  |
|                                    | Aluminum** (ppm)         |                                                     | 3       | 3       |  |  |
| OTHER<br>TESTS                     | Soluble Salts (mmhos/cm) |                                                     |         |         |  |  |
|                                    | Chlorides (ppm)          |                                                     |         |         |  |  |
|                                    | NO <sub>3</sub> -N (ppm) |                                                     | 1.5     | 5.9     |  |  |
|                                    | NH <sub>4</sub> -N (ppm) |                                                     | 13.9    | 2.8     |  |  |
|                                    |                          |                                                     |         |         |  |  |

a - alkaline soil

\* Ammonium Acetate Extractable (pH of 8.1)

\*\* Mehlich III Extractable

lb/A

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|                                    |                          |                                                     |              |              |  |  |
|------------------------------------|--------------------------|-----------------------------------------------------|--------------|--------------|--|--|
| Sample Location                    | FAIRWAY                  | 5                                                   | 14           |              |  |  |
| Sample Identification              |                          |                                                     |              |              |  |  |
| Lab Number                         |                          | 0179-1                                              | 0180-1       |              |  |  |
| Total Exchange Capacity (ME/100 g) |                          | 14.75                                               | 16.68        |              |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          | a 8.7                                               | a 8.8        |              |  |  |
| Organic Matter (360°C LOI) %       |                          | 1.48                                                | 1.64         |              |  |  |
| Estimated Nitrogen Release lb/A    |                          | 50                                                  | 53           |              |  |  |
| ANIONS                             | SOLUBLE SULFUR*          | ppm                                                 | 25           | 39           |  |  |
|                                    | MEHLICH III              | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |              |              |  |  |
|                                    | BRAY II                  | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P |              |              |  |  |
|                                    | OLSEN                    | lb/A P as P <sub>2</sub> O <sub>5</sub><br>ppm of P | 18<br>4      | 105<br>23    |  |  |
| EXCHANGEABLE<br>CATIONS            | CALCIUM*                 | lb/A<br>ppm                                         | 4174<br>2087 | 4340<br>2170 |  |  |
|                                    | MAGNESIUM*               | lb/A<br>ppm                                         | 630<br>315   | 642<br>321   |  |  |
|                                    | POTASSIUM*               | lb/A<br>ppm                                         | 526<br>263   | 1506<br>753  |  |  |
|                                    | SODIUM*                  | lb/A<br>ppm                                         | 284<br>142   | 362<br>181   |  |  |
| BASE SATURATION PERCENT            |                          |                                                     |              |              |  |  |
|                                    | Calcium                  | %                                                   | 70.75        | 65.05        |  |  |
|                                    | Magnesium                | %                                                   | 17.80        | 16.04        |  |  |
|                                    | Potassium                | %                                                   | 4.57         | 11.58        |  |  |
|                                    | Sodium                   | %                                                   | 4.19         | 4.72         |  |  |
|                                    | Other Bases              | %                                                   | 2.70         | 2.60         |  |  |
|                                    | Hydrogen                 | %                                                   | 0.00         | 0.00         |  |  |
| EXTRACTABLE MINORS                 |                          |                                                     |              |              |  |  |
|                                    | Boron** (ppm)            |                                                     | 1.17         | 1.17         |  |  |
|                                    | Iron** (ppm)             |                                                     | 15           | 20           |  |  |
|                                    | Manganese** (ppm)        |                                                     | 15           | 20           |  |  |
|                                    | Copper** (ppm)           |                                                     | 0.47         | 0.45         |  |  |
|                                    | Zinc** (ppm)             |                                                     | 2.06         | 2.56         |  |  |
|                                    | Aluminum** (ppm)         |                                                     | 4            | 6            |  |  |
| OTHER<br>TESTS                     | Soluble Salts (mmhos/cm) |                                                     |              |              |  |  |
|                                    | Chlorides (ppm)          |                                                     |              |              |  |  |
|                                    | NO <sub>3</sub> -N (ppm) |                                                     | < 0.5        | 11.6         |  |  |
|                                    | NH <sub>4</sub> -N (ppm) |                                                     | 1.5          | 5.1          |  |  |

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|                                                                    |                                                                                                  |   |              |              |  |  |  |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---|--------------|--------------|--|--|--|
| Sample Location <span style="float: right;">GREEN</span>           |                                                                                                  |   | 5            | 14           |  |  |  |
| Sample Identification                                              |                                                                                                  |   |              |              |  |  |  |
| Lab Number                                                         |                                                                                                  |   | 0181-1       | 0182-1       |  |  |  |
| Total Exchange Capacity (ME/100 g)                                 |                                                                                                  |   | 10.04        | 12.21        |  |  |  |
| pH (H <sub>2</sub> O 1:1)                                          |                                                                                                  |   | a<br>8.5     | a<br>8.7     |  |  |  |
| Organic Matter (360°C LOI) %                                       |                                                                                                  |   | 0.74         | 0.83         |  |  |  |
| Estimated Nitrogen Release <span style="float: right;">lb/A</span> |                                                                                                  |   | 30           | 33           |  |  |  |
| <b>ANIONS</b>                                                      | SOLUBLE SULFUR* <span style="float: right;">ppm</span>                                           |   | 38           | 41           |  |  |  |
|                                                                    | MEHLICH III <span style="float: right;">lb/A P as P<sub>2</sub>O<sub>5</sub><br/>ppm of P</span> |   |              |              |  |  |  |
|                                                                    | BRAY II <span style="float: right;">lb/A P as P<sub>2</sub>O<sub>5</sub><br/>ppm of P</span>     |   |              |              |  |  |  |
|                                                                    | OLSEN <span style="float: right;">lb/A P as P<sub>2</sub>O<sub>5</sub><br/>ppm of P</span>       |   | < 9<br>< 2   | 133<br>29    |  |  |  |
| <b>EXCHANGEABLE CATIONS</b>                                        | CALCIUM* <span style="float: right;">lb/A<br/>ppm</span>                                         |   | 2940<br>1470 | 3794<br>1897 |  |  |  |
|                                                                    | MAGNESIUM* <span style="float: right;">lb/A<br/>ppm</span>                                       |   | 318<br>159   | 358<br>179   |  |  |  |
|                                                                    | POTASSIUM* <span style="float: right;">lb/A<br/>ppm</span>                                       |   | 414<br>207   | 338<br>169   |  |  |  |
|                                                                    | SODIUM* <span style="float: right;">lb/A<br/>ppm</span>                                          |   | 252<br>126   | 216<br>108   |  |  |  |
|                                                                    | <b>BASE SATURATION PERCENT</b>                                                                   |   |              |              |  |  |  |
|                                                                    | Calcium                                                                                          | % | 73.21        | 77.68        |  |  |  |
|                                                                    | Magnesium                                                                                        | % | 13.20        | 12.22        |  |  |  |
|                                                                    | Potassium                                                                                        | % | 5.29         | 3.55         |  |  |  |
|                                                                    | Sodium                                                                                           | % | 5.46         | 3.85         |  |  |  |
|                                                                    | Other Bases                                                                                      | % | 2.90         | 2.70         |  |  |  |
|                                                                    | Hydrogen                                                                                         | % | 0.00         | 0.00         |  |  |  |
| <b>EXTRACTABLE MINORS</b>                                          |                                                                                                  |   |              |              |  |  |  |
| Boron** (ppm)                                                      |                                                                                                  |   | 1.00         | 1.09         |  |  |  |
| Iron** (ppm)                                                       |                                                                                                  |   | 78           | 55           |  |  |  |
| Manganese** (ppm)                                                  |                                                                                                  |   | 36           | 49           |  |  |  |
| Copper** (ppm)                                                     |                                                                                                  |   | 2.37         | 2.57         |  |  |  |
| Zinc** (ppm)                                                       |                                                                                                  |   | 9.33         | 8.81         |  |  |  |
| Aluminum** (ppm)                                                   |                                                                                                  |   | 233          | 103          |  |  |  |
| <b>OTHER TESTS</b>                                                 | Soluble Salts (mmhos/cm)                                                                         |   |              |              |  |  |  |
|                                                                    | Chlorides (ppm)                                                                                  |   |              |              |  |  |  |
|                                                                    | NO <sub>3</sub> -N (ppm)                                                                         |   | < 0.5        | 0.7          |  |  |  |
|                                                                    | NH <sub>4</sub> -N (ppm)                                                                         |   | 2.6          | < 0.5        |  |  |  |
|                                                                    |                                                                                                  |   |              |              |  |  |  |

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