

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

Name Las Vegas Country Club City Las Vegas State NV

Independent Consultant Soil and Water Consulting Date 3/11/2020

|                                    |                                                                         |          |          |  |  |  |
|------------------------------------|-------------------------------------------------------------------------|----------|----------|--|--|--|
| Sample Location TEE                |                                                                         | 1        | 10       |  |  |  |
| Sample Identification              |                                                                         |          |          |  |  |  |
| Lab Number                         |                                                                         | 0113-1   | 0114-1   |  |  |  |
| Total Exchange Capacity (ME/100 g) |                                                                         | 13.86    | 14.78    |  |  |  |
| pH (H <sub>2</sub> O 1:1)          |                                                                         | a 8.2    | a 8.0    |  |  |  |
| Organic Matter (360°C LOI) %       |                                                                         | 1.42     | 2.00     |  |  |  |
| Estimated Nitrogen Release lb/A    |                                                                         | 48       | 60       |  |  |  |
| ANIONS                             | SOLUBLE SULFUR* ppm                                                     | 88       | 75       |  |  |  |
|                                    | PHOSPHORUS MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P |          |          |  |  |  |
|                                    | BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P                |          |          |  |  |  |
|                                    | OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P                  | 73<br>16 | 96<br>21 |  |  |  |
| EXCHANGEABLE CATIONS               | CALCIUM* lb/A                                                           | 3798     | 3888     |  |  |  |
|                                    | ppm                                                                     | 1899     | 1944     |  |  |  |
|                                    | MAGNESIUM* lb/A                                                         | 650      | 682      |  |  |  |
|                                    | ppm                                                                     | 325      | 341      |  |  |  |
|                                    | POTASSIUM* lb/A                                                         | 692      | 1010     |  |  |  |
|                                    | ppm                                                                     | 346      | 505      |  |  |  |
|                                    | SODIUM* lb/A                                                            | 152      | 194      |  |  |  |
|                                    | ppm                                                                     | 76       | 97       |  |  |  |
| BASE SATURATION PERCENT            |                                                                         |          |          |  |  |  |
| Calcium %                          |                                                                         | 68.51    | 65.76    |  |  |  |
| Magnesium %                        |                                                                         | 19.54    | 19.23    |  |  |  |
| Potassium %                        |                                                                         | 6.40     | 8.76     |  |  |  |
| Sodium %                           |                                                                         | 2.38     | 2.85     |  |  |  |
| Other Bases %                      |                                                                         | 3.20     | 3.40     |  |  |  |
| Hydrogen %                         |                                                                         | 0.00     | 0.00     |  |  |  |
| EXTRACTABLE MINORS                 |                                                                         |          |          |  |  |  |
| Boron** (ppm)                      |                                                                         | 0.86     | 0.97     |  |  |  |
| Iron** (ppm)                       |                                                                         | 73       | 114      |  |  |  |
| Manganese** (ppm)                  |                                                                         | 29       | 28       |  |  |  |
| Copper** (ppm)                     |                                                                         | 1.65     | 2.21     |  |  |  |
| Zinc** (ppm)                       |                                                                         | 5.98     | 9.53     |  |  |  |
| Aluminum** (ppm)                   |                                                                         | 80       | 78       |  |  |  |
| OTHER TESTS                        | Soluble Salts (mmhos/cm)                                                |          |          |  |  |  |
|                                    | Chlorides (ppm)                                                         |          |          |  |  |  |
|                                    | NO <sub>3</sub> -N (ppm)                                                | 2.0      | 0.7      |  |  |  |
|                                    | NH <sub>4</sub> -N (ppm)                                                | < 0.5    | < 0.5    |  |  |  |

a - alkaline soil

\* Ammonium Acetate Extractable (pH of 8.1)

\*\* Mehlich III Extractable

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|                                    |                                                              |     |        |        |  |  |  |
|------------------------------------|--------------------------------------------------------------|-----|--------|--------|--|--|--|
| Sample Location FAIRWAY            |                                                              |     | 1      | 10     |  |  |  |
| Sample Identification              |                                                              |     |        |        |  |  |  |
| Lab Number                         |                                                              |     | 0115-1 | 0116-1 |  |  |  |
| Total Exchange Capacity (ME/100 g) |                                                              |     | 124.31 | 55.01  |  |  |  |
| pH (H <sub>2</sub> O 1:1)          |                                                              |     | a 7.9  | a 7.9  |  |  |  |
| Organic Matter (360°C LOI) %       |                                                              |     | 4.76   | 5.51   |  |  |  |
| Estimated Nitrogen Release lb/A    |                                                              |     | 98     | 103    |  |  |  |
| ANIONS                             | SOLUBLE SULFUR* ppm                                          |     | 14938  | 6080   |  |  |  |
|                                    | PHOSPHORUS                                                   |     |        |        |  |  |  |
|                                    | MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P |     |        |        |  |  |  |
|                                    | BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P     |     |        |        |  |  |  |
| EXCHANGEABLE CATIONS               | OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P       |     | 142    | 192    |  |  |  |
|                                    |                                                              |     | 31     | 42     |  |  |  |
|                                    | CALCIUM* lb/A                                                |     | 46284  | 18874  |  |  |  |
|                                    |                                                              | ppm | 23142  | 9437   |  |  |  |
|                                    | MAGNESIUM* lb/A                                              |     | 844    | 1194   |  |  |  |
|                                    |                                                              | ppm | 422    | 597    |  |  |  |
|                                    | POTASSIUM* lb/A                                              |     | 346    | 450    |  |  |  |
|                                    |                                                              | ppm | 173    | 225    |  |  |  |
|                                    | SODIUM* lb/A                                                 |     | 134    | 162    |  |  |  |
|                                    |                                                              | ppm | 67     | 81     |  |  |  |
| BASE SATURATION PERCENT            |                                                              |     |        |        |  |  |  |
|                                    | Calcium %                                                    |     | 93.08  | 85.78  |  |  |  |
|                                    | Magnesium %                                                  |     | 2.83   | 9.04   |  |  |  |
|                                    | Potassium %                                                  |     | 0.36   | 1.05   |  |  |  |
|                                    | Sodium %                                                     |     | 0.23   | 0.64   |  |  |  |
|                                    | Other Bases %                                                |     | 3.50   | 3.50   |  |  |  |
|                                    | Hydrogen %                                                   |     | 0.00   | 0.00   |  |  |  |
| EXTRACTABLE MINORS                 |                                                              |     |        |        |  |  |  |
|                                    | Boron** (ppm)                                                |     | 1.53   | 1.78   |  |  |  |
|                                    | Iron** (ppm)                                                 |     | 71     | 51     |  |  |  |
|                                    | Manganese** (ppm)                                            |     | 14     | 12     |  |  |  |
|                                    | Copper** (ppm)                                               |     | 3.53   | 3.32   |  |  |  |
|                                    | Zinc** (ppm)                                                 |     | 16.01  | 20.04  |  |  |  |
|                                    | Aluminum** (ppm)                                             |     | 21     | 17     |  |  |  |
| OTHER TESTS                        | Soluble Salts (mmhos/cm)                                     |     |        |        |  |  |  |
|                                    | Chlorides (ppm)                                              |     |        |        |  |  |  |
|                                    | NO <sub>3</sub> -N (ppm)                                     |     | 3.0    | 5.3    |  |  |  |
|                                    | NH <sub>4</sub> -N (ppm)                                     |     | < 0.5  | 1.1    |  |  |  |

a - alkaline soil

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|                                    |                                                                         |           |           |           |  |  |
|------------------------------------|-------------------------------------------------------------------------|-----------|-----------|-----------|--|--|
| Sample Location <u>GREEN</u>       |                                                                         | 1         | 10        | PG        |  |  |
| Sample Identification              |                                                                         |           |           |           |  |  |
| Lab Number                         |                                                                         | 0117-1    | 0118-1    | 0119-1    |  |  |
| Total Exchange Capacity (ME/100 g) |                                                                         | 9.52      | 10.31     | 8.69      |  |  |
| pH (H <sub>2</sub> O 1:1)          |                                                                         | a<br>8.7  | a<br>8.5  | a<br>8.4  |  |  |
| Organic Matter (360°C LOI) %       |                                                                         | 0.68      | 0.77      | 0.36      |  |  |
| Estimated Nitrogen Release lb/A    |                                                                         | 27        | 31        | 14        |  |  |
| ANIONS                             | SOLUBLE SULFUR* ppm                                                     | 146       | 253       | 484       |  |  |
|                                    | PHOSPHORUS MEHLICH III lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P |           |           |           |  |  |
|                                    | BRAY II lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P                |           |           |           |  |  |
|                                    | OLSEN lb/A P as P <sub>2</sub> O <sub>5</sub> ppm of P                  | 362<br>79 | 408<br>89 | 316<br>69 |  |  |
| EXCHANGEABLE CATIONS               | CALCIUM* lb/A                                                           | 3004      | 3042      | 2434      |  |  |
|                                    | ppm                                                                     | 1502      | 1521      | 1217      |  |  |
|                                    | MAGNESIUM* lb/A                                                         | 346       | 460       | 384       |  |  |
|                                    | ppm                                                                     | 173       | 230       | 192       |  |  |
|                                    | POTASSIUM* lb/A                                                         | 110       | 186       | 390       |  |  |
|                                    | ppm                                                                     | 55        | 93        | 195       |  |  |
|                                    | SODIUM* lb/A                                                            | 78        | 114       | 114       |  |  |
|                                    | ppm                                                                     | 39        | 57        | 57        |  |  |
| BASE SATURATION PERCENT            |                                                                         |           |           |           |  |  |
| Calcium %                          |                                                                         | 78.89     | 73.76     | 70.02     |  |  |
| Magnesium %                        |                                                                         | 15.14     | 18.59     | 18.41     |  |  |
| Potassium %                        |                                                                         | 1.48      | 2.31      | 5.75      |  |  |
| Sodium %                           |                                                                         | 1.78      | 2.40      | 2.85      |  |  |
| Other Bases %                      |                                                                         | 2.70      | 2.90      | 3.00      |  |  |
| Hydrogen %                         |                                                                         | 0.00      | 0.00      | 0.00      |  |  |
| EXTRACTABLE MINORS                 |                                                                         |           |           |           |  |  |
| Boron** (ppm)                      |                                                                         | 0.69      | 0.91      | 0.74      |  |  |
| Iron** (ppm)                       |                                                                         | 31        | 63        | 99        |  |  |
| Manganese** (ppm)                  |                                                                         | 20        | 45        | 47        |  |  |
| Copper** (ppm)                     |                                                                         | 1.48      | 3.60      | 0.76      |  |  |
| Zinc** (ppm)                       |                                                                         | 6.21      | 10.92     | 3.39      |  |  |
| Aluminum** (ppm)                   |                                                                         | 6         | 5         | 128       |  |  |
| OTHER TESTS                        | Soluble Salts (mmhos/cm)                                                |           |           |           |  |  |
|                                    | Chlorides (ppm)                                                         |           |           |           |  |  |
|                                    | NO <sub>3</sub> -N (ppm)                                                | < 0.5     | < 0.5     | < 0.5     |  |  |
|                                    | NH <sub>4</sub> -N (ppm)                                                | < 0.5     | < 0.5     | < 0.5     |  |  |

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