

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

Name Silver Lakes Sports Complex City \_\_\_\_\_ State \_\_\_\_\_

Independent Consultant Soil and Water Consulting Date 9/20/2016

|                                    |                            |                                                              |              |  |  |  |
|------------------------------------|----------------------------|--------------------------------------------------------------|--------------|--|--|--|
| Sample Location <u>NATIVE SITE</u> |                            | SOIL                                                         |              |  |  |  |
| Sample Identification              |                            | BACKYARD                                                     |              |  |  |  |
| Lab Number                         |                            | 0086-1                                                       |              |  |  |  |
| Total Exchange Capacity (ME/100 g) |                            | 16.04                                                        |              |  |  |  |
| pH (H <sub>2</sub> O 1:1)          |                            | a<br>7.7                                                     |              |  |  |  |
| Organic Matter (humus) %           |                            | 1.02                                                         |              |  |  |  |
| Estimated Nitrogen Release lb/A    |                            | 40                                                           |              |  |  |  |
| <b>ANIONS</b>                      | <b>SOLUBLE SULFUR* ppm</b> |                                                              | 263          |  |  |  |
|                                    | <b>PHOSPHORUS</b>          | 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       | 64<br>14     |  |  |  |
| <b>EXCHANGEABLE CATIONS</b>        | CALCIUM*                   | lb/A _____<br>ppm _____                                      | 5302<br>2651 |  |  |  |
|                                    | MAGNESIUM*                 | lb/A _____<br>ppm _____                                      | 328<br>164   |  |  |  |
|                                    | POTASSIUM*                 | lb/A _____<br>ppm _____                                      | 198<br>99    |  |  |  |
|                                    | SODIUM*                    | lb/A _____<br>ppm _____                                      | 264<br>132   |  |  |  |
|                                    |                            |                                                              |              |  |  |  |
| <b>BASE SATURATION PERCENT</b>     |                            |                                                              |              |  |  |  |
|                                    | Calcium %                  |                                                              | 82.64        |  |  |  |
|                                    | Magnesium %                |                                                              | 8.52         |  |  |  |
|                                    | Potassium %                |                                                              | 1.58         |  |  |  |
|                                    | Sodium %                   |                                                              | 3.58         |  |  |  |
|                                    | Other Bases %              |                                                              | 3.70         |  |  |  |
|                                    | Hydrogen %                 |                                                              | 0.00         |  |  |  |
| <b>EXTRACTABLE MINORS</b>          |                            |                                                              |              |  |  |  |
|                                    | Boron M3 (ppm)             |                                                              |              |  |  |  |
|                                    | Iron** (ppm)               |                                                              | 14           |  |  |  |
|                                    | Manganese** (ppm)          |                                                              | 4            |  |  |  |
|                                    | Copper** (ppm)             |                                                              | 1.04         |  |  |  |
|                                    | Zinc** (ppm)               |                                                              | 0.63         |  |  |  |
|                                    | Aluminum (ppm)             |                                                              |              |  |  |  |
| <b>OTHER TESTS</b>                 | Soluble Salts (mmhos/cm)   |                                                              |              |  |  |  |
|                                    | Chlorides (ppm)            |                                                              |              |  |  |  |
|                                    |                            |                                                              |              |  |  |  |

a - alkaline soil

\* Ammonium Acetate Extractable (pH of 8.1)

\*\* DTPA Extractable

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

Name Silver Lakes Sports Complex City \_\_\_\_\_ State \_\_\_\_\_

Independent Consultant Soil and Water Consulting Date 9/20/2016

|                                    |                          |                                                              |              |  |  |  |  |
|------------------------------------|--------------------------|--------------------------------------------------------------|--------------|--|--|--|--|
| Sample Location                    |                          | LANDSCAPE                                                    | -            |  |  |  |  |
| Sample Identification              |                          |                                                              |              |  |  |  |  |
| Lab Number                         |                          |                                                              | 0087-1       |  |  |  |  |
| Total Exchange Capacity (ME/100 g) |                          |                                                              | 19.38        |  |  |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          |                                                              | a<br>8.2     |  |  |  |  |
| Organic Matter (humus) %           |                          |                                                              | 1.54         |  |  |  |  |
| Estimated Nitrogen Release lb/A    |                          |                                                              | 51           |  |  |  |  |
| <b>ANIONS</b>                      | SOLUBLE SULFUR* ppm      |                                                              | 58           |  |  |  |  |
|                                    | <b>PHOSPHORUS</b>        | 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       | 252<br>55    |  |  |  |  |
| <b>EXCHANGEABLE CATIONS</b>        | CALCIUM*                 | lb/A<br>ppm                                                  | 5754<br>2877 |  |  |  |  |
|                                    | MAGNESIUM*               | lb/A<br>ppm                                                  | 786<br>393   |  |  |  |  |
|                                    | POTASSIUM*               | lb/A<br>ppm                                                  | 110<br>55    |  |  |  |  |
|                                    | SODIUM*                  | lb/A<br>ppm                                                  | 442<br>221   |  |  |  |  |
|                                    |                          |                                                              |              |  |  |  |  |
| <b>BASE SATURATION PERCENT</b>     |                          |                                                              |              |  |  |  |  |
| Calcium %                          |                          |                                                              | 74.23        |  |  |  |  |
| Magnesium %                        |                          |                                                              | 16.90        |  |  |  |  |
| Potassium %                        |                          |                                                              | 0.73         |  |  |  |  |
| Sodium %                           |                          |                                                              | 4.96         |  |  |  |  |
| Other Bases %                      |                          |                                                              | 3.20         |  |  |  |  |
| Hydrogen %                         |                          |                                                              | 0.00         |  |  |  |  |
| <b>EXTRACTABLE MINORS</b>          |                          |                                                              |              |  |  |  |  |
| Boron M3 (ppm)                     |                          |                                                              |              |  |  |  |  |
| Iron** (ppm)                       |                          |                                                              | 13           |  |  |  |  |
| Manganese** (ppm)                  |                          |                                                              | 4            |  |  |  |  |
| Copper** (ppm)                     |                          |                                                              | 1.41         |  |  |  |  |
| Zinc** (ppm)                       |                          |                                                              | 1.09         |  |  |  |  |
| Aluminum (ppm)                     |                          |                                                              |              |  |  |  |  |
| <b>OTHER TESTS</b>                 | Soluble Salts (mmhos/cm) |                                                              |              |  |  |  |  |
|                                    | Chlorides (ppm)          |                                                              |              |  |  |  |  |
|                                    |                          |                                                              |              |  |  |  |  |

a - alkaline soil

\* Ammonium Acetate Extractable (pH of 8.1)

\*\* DTPA Extractable