

lb/A

# BROOKSIDE LABORATORIES, INC.

## SOIL AUDIT AND INVENTORY REPORT

93033-2

Name La Valle Coastal Club City Rancho Santa Fe State CAIndependent Consultant Soil and Water Consulting Date 1/22/2025

|                                    |                          |             |                                                     |          |  |  |  |  |
|------------------------------------|--------------------------|-------------|-----------------------------------------------------|----------|--|--|--|--|
| Sample Location                    |                          |             | EAST COURSE                                         | FAIRWAY  |  |  |  |  |
| Sample Identification              |                          |             |                                                     | 9        |  |  |  |  |
| Lab Number                         |                          |             |                                                     | 0127-1   |  |  |  |  |
| Total Exchange Capacity (ME/100 g) |                          |             |                                                     | 31.97    |  |  |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          |             |                                                     | a<br>7.7 |  |  |  |  |
| Organic Matter (360°C LOI) %       |                          |             |                                                     | 1.79     |  |  |  |  |
| Estimated Nitrogen Release         |                          |             | lb/A                                                | 56       |  |  |  |  |
| ANIONS                             | SOLUBLE SULFUR* ppm      |             |                                                     | 2504     |  |  |  |  |
|                                    | PHOSPHORUS               | 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 | 82<br>18 |  |  |  |  |
| EXCHANGEABLE CATIONS               | CALCIUM*                 |             | lb/A                                                | 9504     |  |  |  |  |
|                                    |                          |             | ppm                                                 | 4752     |  |  |  |  |
|                                    | MAGNESIUM*               |             | lb/A                                                | 1032     |  |  |  |  |
|                                    |                          |             | ppm                                                 | 516      |  |  |  |  |
|                                    | POTASSIUM*               |             | lb/A                                                | 168      |  |  |  |  |
|                                    |                          |             | ppm                                                 | 84       |  |  |  |  |
|                                    | SODIUM*                  |             | lb/A                                                | 1156     |  |  |  |  |
|                                    |                          |             | ppm                                                 | 578      |  |  |  |  |
| BASE SATURATION PERCENT            |                          |             |                                                     |          |  |  |  |  |
| Calcium %                          |                          |             |                                                     | 74.32    |  |  |  |  |
| Magnesium %                        |                          |             |                                                     | 13.45    |  |  |  |  |
| Potassium %                        |                          |             |                                                     | 0.67     |  |  |  |  |
| Sodium %                           |                          |             |                                                     | 7.86     |  |  |  |  |
| Other Bases %                      |                          |             |                                                     | 3.70     |  |  |  |  |
| Hydrogen %                         |                          |             |                                                     | 0.00     |  |  |  |  |
| EXTRACTABLE MINORS                 |                          |             |                                                     |          |  |  |  |  |
| Boron** (ppm)                      |                          |             |                                                     | 2.04     |  |  |  |  |
| Iron** (ppm)                       |                          |             |                                                     | 312      |  |  |  |  |
| Manganese** (ppm)                  |                          |             |                                                     | 72       |  |  |  |  |
| Copper** (ppm)                     |                          |             |                                                     | 1.67     |  |  |  |  |
| Zinc** (ppm)                       |                          |             |                                                     | 5.27     |  |  |  |  |
| Aluminum** (ppm)                   |                          |             |                                                     | 72       |  |  |  |  |
| OTHER TESTS                        | Soluble Salts (mmhos/cm) |             |                                                     |          |  |  |  |  |
|                                    | Chlorides (ppm)          |             |                                                     |          |  |  |  |  |
|                                    | NO3-N (ppm)              |             |                                                     | 1.6      |  |  |  |  |
|                                    | NH4-N (ppm)              |             |                                                     | 1.6      |  |  |  |  |

a - alkaline soil

\* Ammonium Acetate Extractable (pH of 8.1)

\*\* Mehlich III Extractable

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|                                    |                          |                                                     |              |  |  |  |
|------------------------------------|--------------------------|-----------------------------------------------------|--------------|--|--|--|
| Sample Location                    | NORTH COURSE             | FAIRWAY                                             |              |  |  |  |
| Sample Identification              |                          | 1                                                   |              |  |  |  |
| Lab Number                         |                          | 0128-1                                              |              |  |  |  |
| Total Exchange Capacity (ME/100 g) |                          | 12.93                                               |              |  |  |  |
| pH (H <sub>2</sub> O 1:1)          |                          | a<br>8.2                                            |              |  |  |  |
| Organic Matter (360°C LOI) %       |                          | 1.11                                                |              |  |  |  |
| Estimated Nitrogen Release lb/A    |                          | 42                                                  |              |  |  |  |
| ANIONS                             | SOLUBLE SULFUR*          | ppm                                                 | 205          |  |  |  |
|                                    | 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 | 14<br>3      |  |  |  |
| EXCHANGEABLE<br>CATIONS            | CALCIUM*                 | lb/A<br>ppm                                         | 3082<br>1541 |  |  |  |
|                                    | MAGNESIUM*               | lb/A<br>ppm                                         | 644<br>322   |  |  |  |
|                                    | POTASSIUM*               | lb/A<br>ppm                                         | 230<br>115   |  |  |  |
|                                    | SODIUM*                  | lb/A<br>ppm                                         | 842<br>421   |  |  |  |
|                                    |                          |                                                     |              |  |  |  |
| BASE SATURATION PERCENT            |                          |                                                     |              |  |  |  |
|                                    | Calcium                  | %                                                   | 59.59        |  |  |  |
|                                    | Magnesium                | %                                                   | 20.75        |  |  |  |
|                                    | Potassium                | %                                                   | 2.28         |  |  |  |
|                                    | Sodium                   | %                                                   | 14.16        |  |  |  |
|                                    | Other Bases              | %                                                   | 3.20         |  |  |  |
|                                    | Hydrogen                 | %                                                   | 0.00         |  |  |  |
| EXTRACTABLE MINORS                 |                          |                                                     |              |  |  |  |
|                                    | Boron** (ppm)            |                                                     | 1.51         |  |  |  |
|                                    | Iron** (ppm)             |                                                     | 154          |  |  |  |
|                                    | Manganese** (ppm)        |                                                     | 91           |  |  |  |
|                                    | Copper** (ppm)           |                                                     | 0.90         |  |  |  |
|                                    | Zinc** (ppm)             |                                                     | 4.94         |  |  |  |
|                                    | Aluminum** (ppm)         |                                                     | 149          |  |  |  |
| OTHER<br>TESTS                     | Soluble Salts (mmhos/cm) |                                                     |              |  |  |  |
|                                    | Chlorides (ppm)          |                                                     |              |  |  |  |
|                                    | NO <sub>3</sub> -N (ppm) |                                                     | 0.6          |  |  |  |
|                                    | NH <sub>4</sub> -N (ppm) |                                                     | 1.0          |  |  |  |

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