

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

Name El Dorado Golf and Beach Club City BCS State MEX

Independent Consultant Soil and Water Consulting Date 5/4/2022

| | | | | | | | |
|------------------------------------|--------------------------|-------------|---|-----------|-----------|-----------|--|
| Sample Location | TEE | 2 | 6 | 15 | | | |
| Sample Identification | | | | | | | |
| Lab Number | | 0026-1 | 0027-1 | 0028-1 | | | |
| Total Exchange Capacity (ME/100 g) | | 6.61 | 5.69 | 6.85 | | | |
| pH (H ₂ O 1:1) | | a 7.8 | a 7.8 | a 7.7 | | | |
| Organic Matter (360°C LOI) % | | 1.50 | 1.23 | 1.80 | | | |
| Estimated Nitrogen Release | lb/A | 50 | 45 | 56 | | | |
| ANIONS | SOLUBLE SULFUR* | ppm | 17 | 17 | 32 | | |
| | PHOSPHORUS | MEHLICH III | lb/A P as P ₂ O ₅ ppm of P | | | | |
| | | BRAY II | lb/A P as P ₂ O ₅ ppm of P | | | | |
| | | OLSEN | lb/A P as P ₂ O ₅ ppm of P | 165 36 | 137 30 | 133 29 | |
| EXCHANGEABLE CATIONS | CALCIUM* | lb/A | 1846 | 1520 | 1810 | | |
| | | ppm | 923 | 760 | 905 | | |
| | MAGNESIUM* | lb/A | 228 | 222 | 242 | | |
| | | ppm | 114 | 111 | 121 | | |
| | POTASSIUM* | lb/A | 222 | 206 | 188 | | |
| ppm | | 111 | 103 | 94 | | | |
| SODIUM* | lb/A | 242 | 226 | 378 | | | |
| | ppm | 121 | 113 | 189 | | | |
| BASE SATURATION PERCENT | | | | | | | |
| | Calcium | % | 69.82 | 66.78 | 66.06 | | |
| | Magnesium | % | 14.37 | 16.26 | 14.72 | | |
| | Potassium | % | 4.31 | 4.64 | 3.52 | | |
| | Sodium | % | 7.96 | 8.63 | 12.00 | | |
| | Other Bases | % | 3.60 | 3.60 | 3.70 | | |
| | Hydrogen | % | 0.00 | 0.00 | 0.00 | | |
| EXTRACTABLE MINORS | | | | | | | |
| | Boron** (ppm) | | 1.05 | 0.67 | 0.97 | | |
| | Iron** (ppm) | | 347 | 327 | 305 | | |
| | Manganese** (ppm) | | 104 | 90 | 103 | | |
| | Copper** (ppm) | | 1.34 | 0.52 | 0.73 | | |
| | Zinc** (ppm) | | 7.78 | 4.42 | 3.60 | | |
| | Aluminum** (ppm) | | 137 | 88 | 128 | | |
| OTHER TESTS | Soluble Salts (mmhos/cm) | | | | | | |
| | Chlorides (ppm) | | | | | | |
| | NO ₃ -N (ppm) | | 7.5 | 4.3 | 7.3 | | |
| | NH ₄ -N (ppm) | | 0.8 | 3.4 | 1.4 | | |
| | | | | | | | |

a - alkaline soil

* Ammonium Acetate Extractable (pH of 8.1)

** Mehlich III Extractable

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| | | | | | | | |
|------------------------------------|--------------------------|-------------|---|-----------|-----------|-----------|--|
| Sample Location | FAIRWAY | 2 | 6 | 15 | | | |
| Sample Identification | | | | | | | |
| Lab Number | | 0029-1 | 0030-1 | 0031-1 | | | |
| Total Exchange Capacity (ME/100 g) | | 10.67 | 10.43 | 9.47 | | | |
| pH (H ₂ O 1:1) | | a 8.3 | a 8.5 | a 8.5 | | | |
| Organic Matter (360°C LOI) % | | 2.23 | 1.59 | 1.64 | | | |
| Estimated Nitrogen Release | lb/A | 65 | 52 | 53 | | | |
| ANIONS | SOLUBLE SULFUR* | ppm | 69 | 68 | 60 | | |
| | PHOSPHORUS | MEHLICH III | lb/A P as P ₂ O ₅ ppm of P | | | | |
| | | BRAY II | lb/A P as P ₂ O ₅ ppm of P | | | | |
| | | OLSEN | lb/A P as P ₂ O ₅ ppm of P | 234 51 | 321 70 | 151 33 | |
| EXCHANGEABLE CATIONS | CALCIUM* | lb/A | 2968 | 2900 | 2612 | | |
| | | ppm | 1484 | 1450 | 1306 | | |
| | MAGNESIUM* | lb/A | 306 | 304 | 262 | | |
| | | ppm | 153 | 152 | 131 | | |
| | POTASSIUM* | lb/A | 260 | 300 | 252 | | |
| ppm | | 130 | 150 | 126 | | | |
| SODIUM* | lb/A | 604 | 564 | 576 | | | |
| | ppm | 302 | 282 | 288 | | | |
| BASE SATURATION PERCENT | | | | | | | |
| | Calcium | % | 69.54 | 69.51 | 68.95 | | |
| | Magnesium | % | 11.95 | 12.14 | 11.53 | | |
| | Potassium | % | 3.12 | 3.69 | 3.41 | | |
| | Sodium | % | 12.31 | 11.76 | 13.22 | | |
| | Other Bases | % | 3.10 | 2.90 | 2.90 | | |
| | Hydrogen | % | 0.00 | 0.00 | 0.00 | | |
| EXTRACTABLE MINORS | | | | | | | |
| | Boron** (ppm) | | 1.84 | 1.36 | 1.87 | | |
| | Iron** (ppm) | | 225 | 166 | 187 | | |
| | Manganese** (ppm) | | 99 | 119 | 98 | | |
| | Copper** (ppm) | | 1.10 | 0.47 | 0.88 | | |
| | Zinc** (ppm) | | 6.96 | 5.43 | 3.16 | | |
| | Aluminum** (ppm) | | 74 | 76 | 161 | | |
| OTHER TESTS | Soluble Salts (mmhos/cm) | | | | | | |
| | Chlorides (ppm) | | | | | | |
| | NO ₃ -N (ppm) | | 12.3 | 9.8 | 10.4 | | |
| | NH ₄ -N (ppm) | | < 0.5 | < 0.5 | 0.6 | | |

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| | | | | | | | |
|------------------------------------|--------------------------|-------------|---|-----------|-----------|-----------|--|
| Sample Location | GREEN | 2 | 6 | 15 | | | |
| Sample Identification | | | | | | | |
| Lab Number | | 0032-1 | 0033-1 | 0034-1 | | | |
| Total Exchange Capacity (ME/100 g) | | 6.10 | 5.51 | 4.93 | | | |
| pH (H ₂ O 1:1) | | 7.0 | 7.2 | 5.9 | | | |
| Organic Matter (360°C LOI) % | | 1.45 | 1.27 | 1.29 | | | |
| Estimated Nitrogen Release | lb/A | 49 | 45 | 46 | | | |
| ANIONS | SOLUBLE SULFUR* | ppm | 42 | 38 | 34 | | |
| | PHOSPHORUS | MEHLICH III | lb/A P as P ₂ O ₅ ppm of P | | | | |
| | | BRAY II | lb/A P as P ₂ O ₅ ppm of P | | | | |
| | | OLSEN | lb/A P as P ₂ O ₅ ppm of P | 179 39 | 261 57 | 275 60 | |
| EXCHANGEABLE CATIONS | CALCIUM* | lb/A | 1484 | 1322 | 878 | | |
| | | ppm | 742 | 661 | 439 | | |
| | MAGNESIUM* | lb/A | 202 | 194 | 132 | | |
| | | ppm | 101 | 97 | 66 | | |
| | POTASSIUM* | lb/A | 334 | 312 | 272 | | |
| ppm | | 167 | 156 | 136 | | | |
| SODIUM* | lb/A | 390 | 350 | 310 | | | |
| | ppm | 195 | 175 | 155 | | | |
| BASE SATURATION PERCENT | | | | | | | |
| Calcium | % | 60.82 | 59.98 | 44.52 | | | |
| Magnesium | % | 13.80 | 14.67 | 11.16 | | | |
| Potassium | % | 7.02 | 7.26 | 7.07 | | | |
| Sodium | % | 13.90 | 13.81 | 13.67 | | | |
| Other Bases | % | 4.40 | 4.20 | 5.60 | | | |
| Hydrogen | % | 0.00 | 0.00 | 18.00 | | | |
| EXTRACTABLE MINORS | | | | | | | |
| Boron** (ppm) | | 0.68 | 0.54 | 0.51 | | | |
| Iron** (ppm) | | 535 | 510 | 576 | | | |
| Manganese** (ppm) | | 121 | 133 | 185 | | | |
| Copper** (ppm) | | 0.78 | 0.50 | 0.86 | | | |
| Zinc** (ppm) | | 9.49 | 7.13 | 9.50 | | | |
| Aluminum** (ppm) | | 97 | 51 | 117 | | | |
| OTHER TESTS | Soluble Salts (mmhos/cm) | | | | | | |
| | Chlorides (ppm) | | | | | | |
| | NO ₃ -N (ppm) | | 5.1 | 3.5 | 2.3 | | |
| | NH ₄ -N (ppm) | | < 0.5 | < 0.5 | 1.8 | | |

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| | | | | | | |
|------------------------------------|--------------------------------|-------------|---|---------|--|--|
| Sample Location | BASEBALL | FIELD | | | | |
| Sample Identification | | | | | | |
| Lab Number | | 0035-1 | | | | |
| Total Exchange Capacity (ME/100 g) | | 6.10 | | | | |
| pH (H ₂ O 1:1) | | a 8.2 | | | | |
| Organic Matter (360°C LOI) % | | 1.04 | | | | |
| Estimated Nitrogen Release | lb/A | 41 | | | | |
| ANIONS | SOLUBLE SULFUR* | ppm | 22 | | | |
| | PHOSPHORUS | MEHLICH III | lb/A P as P ₂ O ₅ ppm of P | | | |
| | | BRAY II | lb/A P as P ₂ O ₅ ppm of P | | | |
| | | OLSEN | lb/A P as P ₂ O ₅ ppm of P | 27 6 | | |
| EXCHANGEABLE CATIONS | CALCIUM* | lb/A ppm | 1844 922 | | | |
| | MAGNESIUM* | lb/A ppm | 190 95 | | | |
| | POTASSIUM* | lb/A ppm | 182 91 | | | |
| | SODIUM* | lb/A ppm | 122 61 | | | |
| | BASE SATURATION PERCENT | | | | | |
| | Calcium % | | 75.57 | | | |
| | Magnesium % | | 12.98 | | | |
| | Potassium % | | 3.83 | | | |
| | Sodium % | | 4.35 | | | |
| | Other Bases % | | 3.20 | | | |
| | Hydrogen % | | 0.00 | | | |
| EXTRACTABLE MINORS | | | | | | |
| | Boron** (ppm) | | 0.43 | | | |
| | Iron** (ppm) | | 83 | | | |
| | Manganese** (ppm) | | 50 | | | |
| | Copper** (ppm) | | 0.66 | | | |
| | Zinc** (ppm) | | 1.05 | | | |
| | Aluminum** (ppm) | | 112 | | | |
| OTHER TESTS | Soluble Salts (mmhos/cm) | | | | | |
| | Chlorides (ppm) | | | | | |
| | NO ₃ -N (ppm) | | 1.7 | | | |
| | NH ₄ -N (ppm) | | < 0.5 | | | |

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| | | | | | |
|------------------------------------|--------------------------|---|---------|------|--|
| Sample Location | BEACH | CLUB | | | |
| Sample Identification | | | | | |
| Lab Number | | 0036-1 | | | |
| Total Exchange Capacity (ME/100 g) | | 10.78 | | | |
| pH (H ₂ O 1:1) | | 6.5 | | | |
| Organic Matter (360°C LOI) % | | 3.10 | | | |
| Estimated Nitrogen Release | lb/A | 81 | | | |
| ANIONS | SOLUBLE SULFUR* ppm | | 132 | | |
| | PHOSPHORUS | MEHLICH III lb/A P as P ₂ O ₅ ppm of P | | | |
| | | BRAY II lb/A P as P ₂ O ₅ ppm of P | | | |
| | | OLSEN lb/A P as P ₂ O ₅ ppm of P | 23 5 | | |
| EXCHANGEABLE CATIONS | CALCIUM* lb/A | | 2166 | | |
| | | | ppm | 1083 | |
| | MAGNESIUM* lb/A | | 472 | | |
| | | | ppm | 236 | |
| | POTASSIUM* lb/A | | 462 | | |
| | | ppm | 231 | | |
| SODIUM* lb/A | | 676 | | | |
| | | ppm | 338 | | |
| BASE SATURATION PERCENT | | | | | |
| Calcium | % | 50.23 | | | |
| Magnesium | % | 18.24 | | | |
| Potassium | % | 5.49 | | | |
| Sodium | % | 13.63 | | | |
| Other Bases | % | 4.90 | | | |
| Hydrogen | % | 7.50 | | | |
| EXTRACTABLE MINORS | | | | | |
| Boron** (ppm) | | 1.89 | | | |
| Iron** (ppm) | | 218 | | | |
| Manganese** (ppm) | | 53 | | | |
| Copper** (ppm) | | 1.08 | | | |
| Zinc** (ppm) | | 4.11 | | | |
| Aluminum** (ppm) | | 153 | | | |
| OTHER TESTS | Soluble Salts (mmhos/cm) | | | | |
| | Chlorides (ppm) | | | | |
| | NO ₃ -N (ppm) | | 18.0 | | |
| | NH ₄ -N (ppm) | | 14.6 | | |

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