

# BROOKSIDE LABORATORIES, INC.

## SATURATED SOIL ANALYSIS

Silver Lakes Sports Complex

File Number: 76665

Date Received: 3/13/2017

Date Reported: 3/15/2017

Submitted By: Soil and Water Consulting

|                               |         |       |       |        |       |       |  |
|-------------------------------|---------|-------|-------|--------|-------|-------|--|
| Lab Number                    | 0075    |       |       | 0076   |       |       |  |
| Description                   | FIELD   |       |       | FIELD  |       |       |  |
|                               | THE SIX |       |       | THE    |       |       |  |
|                               | PLUS    |       |       | QUAD   |       |       |  |
| pH                            | 7.7     |       |       | 7.7    |       |       |  |
|                               | (ppm)   | meq/l | %     | (ppm)  | meq/l | %     |  |
| Soluble Salts *               | 769     |       |       | 855    |       |       |  |
| Chloride                      | 70      |       |       | 99     |       |       |  |
| Nitrate (NO <sub>3</sub> -N)  | 30.4    |       |       | < 0.5  |       |       |  |
| Bicarbonate                   | 202.55  |       |       | 222.08 |       |       |  |
| Sulfur                        | 67.21   |       |       | 122.16 |       |       |  |
| Phosphorus                    | 1.35    |       |       | 0.82   |       |       |  |
| Calcium                       | 140.03  | 6.99  | 56.07 | 123.89 | 6.18  | 41.78 |  |
| Magnesium                     | 28.48   | 2.34  | 18.79 | 37.28  | 3.07  | 20.72 |  |
| Potassium                     | 44.17   | 1.13  | 9.06  | 17.55  | 0.45  | 3.03  |  |
| Sodium                        | 46.08   | 2.00  | 16.08 | 117.34 | 5.10  | 34.47 |  |
| TOTAL                         |         | 12.46 | 100   |        | 14.80 | 100   |  |
| Boron                         | 0.14    |       |       | 0.17   |       |       |  |
| Iron                          | 0.28    |       |       | 0.44   |       |       |  |
| Manganese                     | 0.13    |       |       | 0.21   |       |       |  |
| Copper                        | 0.03    |       |       | 0.02   |       |       |  |
| Zinc                          | 0.02    |       |       | < 0.01 |       |       |  |
| Aluminum                      | 0.16    |       |       | 0.32   |       |       |  |
| Ammonium (NH <sub>4</sub> -N) | 1.3     |       |       | < 0.5  |       |       |  |
| ESP (calculated)              | 0.11    |       |       | 2.19   |       |       |  |
| SAR (calculated)              | 0.93    |       |       | 2.37   |       |       |  |

\* Soluble Salts: mmhos/cm = ppm / 640

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|------------------|---------|-------|-------|--------|-------|-------|--|
| Lab Number       | 0077    |       |       | 0078   |       |       |  |
| Description      | FIELD   |       |       | FIELD  |       |       |  |
|                  | THE     |       |       | 9-13   |       |       |  |
|                  | STADIUM |       |       |        |       |       |  |
| pH               | 7.9     |       |       | 8.0    |       |       |  |
|                  | (ppm)   | meq/l | %     | (ppm)  | meq/l | %     |  |
| Soluble Salts *  | 693     |       |       | 753    |       |       |  |
| Chloride         | 68      |       |       | 71     |       |       |  |
| Nitrate (NO3-N)  | 9.7     |       |       | < 0.5  |       |       |  |
| Bicarbonate      | 263.56  |       |       | 295.29 |       |       |  |
| Sulfur           | 64.82   |       |       | 88.06  |       |       |  |
| Phosphorus       | 1.86    |       |       | 1.45   |       |       |  |
| Calcium          | 123.40  | 6.16  | 53.20 | 141.98 | 7.08  | 53.79 |  |
| Magnesium        | 24.42   | 2.01  | 17.35 | 29.12  | 2.39  | 18.18 |  |
| Potassium        | 41.86   | 1.07  | 9.25  | 32.14  | 0.82  | 6.24  |  |
| Sodium           | 53.76   | 2.34  | 20.19 | 66.03  | 2.87  | 21.79 |  |
| TOTAL            |         | 11.57 | 100   |        | 13.17 | 100   |  |
| Boron            | 0.21    |       |       | 0.23   |       |       |  |
| Iron             | 0.27    |       |       | 0.30   |       |       |  |
| Manganese        | 0.21    |       |       | 0.53   |       |       |  |
| Copper           | 0.07    |       |       | 0.03   |       |       |  |
| Zinc             | 0.01    |       |       | 0.02   |       |       |  |
| Aluminum         | 0.17    |       |       | 0.18   |       |       |  |
| Ammonium (NH4-N) | 3.0     |       |       | 1.8    |       |       |  |
| ESP (calculated) | 0.44    |       |       | 0.68   |       |       |  |
| SAR (calculated) | 1.16    |       |       | 1.32   |       |       |  |

\* Soluble Salts: mmhos/cm = ppm / 640