

# BROOKSIDE LABORATORIES, INC.

## SATURATED SOIL ANALYSIS

Canyon Gate Country Club  
2001 Canyon Gate Drive  
Las Vegas, NV 89117

File Number: 46715  
Date Received: 6/13/2016  
Date Reported: 6/15/2016

Submitted By: Soil and Water Consulting

|                  |        |       |       |        |       |       |  |
|------------------|--------|-------|-------|--------|-------|-------|--|
| Lab Number       | 0025   |       |       | 0026   |       |       |  |
| Description      | GREEN  |       |       | GREEN  |       |       |  |
|                  | 3      |       |       | 9      |       |       |  |
| pH               | 7.8    |       |       | 7.8    |       |       |  |
|                  | (ppm)  | meq/l | %     | (ppm)  | meq/l | %     |  |
| Soluble Salts *  | 812    |       |       | 998    |       |       |  |
| Chloride         | 66     |       |       | 86     |       |       |  |
| Nitrate (NO3-N)  | 35.3   |       |       | 57.0   |       |       |  |
| Bicarbonate      | 156.19 |       |       | 148.86 |       |       |  |
| Sulfur           | 80.34  |       |       | 113.41 |       |       |  |
| Phosphorus       | 4.42   |       |       | 5.45   |       |       |  |
| Calcium          | 118.68 | 5.92  | 49.38 | 170.72 | 8.52  | 52.67 |  |
| Magnesium        | 29.47  | 2.42  | 20.21 | 37.10  | 3.05  | 18.86 |  |
| Potassium        | 36.71  | 0.94  | 7.83  | 52.43  | 1.34  | 8.29  |  |
| Sodium           | 62.29  | 2.71  | 22.58 | 75.07  | 3.26  | 20.18 |  |
| TOTAL            |        | 11.99 | 100   |        | 16.17 | 100   |  |
| Boron            | 0.21   |       |       | 0.25   |       |       |  |
| Iron             | 0.03   |       |       | 0.15   |       |       |  |
| Manganese        | 0.04   |       |       | 0.06   |       |       |  |
| Copper           | 0.03   |       |       | 0.03   |       |       |  |
| Zinc             | 0.01   |       |       | 0.02   |       |       |  |
| Aluminum         | 0.21   |       |       | 0.35   |       |       |  |
| Ammonium (NH4-N) | 3.4    |       |       | 6.1    |       |       |  |
| ESP (calculated) | 0.69   |       |       | 0.74   |       |       |  |
| SAR (calculated) | 1.33   |       |       | 1.36   |       |       |  |

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

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|------------------|--------|-------|-------|--------|-------|-------|--|
| Lab Number       | 0027   |       |       | 0028   |       |       |  |
| Description      | GREEN  |       |       | GREEN  |       |       |  |
|                  | 12     |       |       | 17     |       |       |  |
| pH               | 7.8    |       |       | 7.8    |       |       |  |
|                  | (ppm)  | meq/l | %     | (ppm)  | meq/l | %     |  |
| Soluble Salts *  | 992    |       |       | 945    |       |       |  |
| Chloride         | 63     |       |       | 77     |       |       |  |
| Nitrate (NO3-N)  | 60.2   |       |       | 62.3   |       |       |  |
| Bicarbonate      | 131.78 |       |       | 134.22 |       |       |  |
| Sulfur           | 112.10 |       |       | 91.39  |       |       |  |
| Phosphorus       | 3.83   |       |       | 4.96   |       |       |  |
| Calcium          | 121.44 | 6.06  | 50.98 | 138.30 | 6.90  | 49.86 |  |
| Magnesium        | 27.47  | 2.26  | 19.01 | 34.13  | 2.81  | 20.28 |  |
| Potassium        | 49.09  | 1.26  | 10.56 | 53.34  | 1.36  | 9.86  |  |
| Sodium           | 53.16  | 2.31  | 19.45 | 63.66  | 2.77  | 20.00 |  |
| TOTAL            |        | 11.89 | 100   |        | 13.84 | 100   |  |
| Boron            | 0.18   |       |       | 0.28   |       |       |  |
| Iron             | 0.18   |       |       | 0.10   |       |       |  |
| Manganese        | 0.02   |       |       | 0.06   |       |       |  |
| Copper           | 0.03   |       |       | 0.03   |       |       |  |
| Zinc             | 0.02   |       |       | 0.01   |       |       |  |
| Aluminum         | 0.43   |       |       | 0.31   |       |       |  |
| Ammonium (NH4-N) | 53.0   |       |       | 20.1   |       |       |  |
| ESP (calculated) | 0.41   |       |       | 0.59   |       |       |  |
| SAR (calculated) | 1.13   |       |       | 1.26   |       |       |  |

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|------------------|--------|-------|-------|--------|-------|-------|--|
| Lab Number       | 0029   |       |       | 0030   |       |       |  |
| Description      | GREEN  |       |       | GREEN  |       |       |  |
|                  | 18     |       |       | PG     |       |       |  |
| pH               | 7.8    |       |       | 7.9    |       |       |  |
|                  | (ppm)  | meq/l | %     | (ppm)  | meq/l | %     |  |
| Soluble Salts *  | 865    |       |       | 1138   |       |       |  |
| Chloride         | 71     |       |       | 115    |       |       |  |
| Nitrate (NO3-N)  | 63.3   |       |       | 56.5   |       |       |  |
| Bicarbonate      | 136.66 |       |       | 214.76 |       |       |  |
| Sulfur           | 83.86  |       |       | 88.73  |       |       |  |
| Phosphorus       | 4.20   |       |       | 5.38   |       |       |  |
| Calcium          | 133.93 | 6.68  | 52.97 | 85.08  | 4.25  | 38.80 |  |
| Magnesium        | 29.62  | 2.44  | 19.31 | 24.58  | 2.02  | 18.48 |  |
| Potassium        | 39.21  | 1.00  | 7.95  | 71.57  | 1.83  | 16.73 |  |
| Sodium           | 57.38  | 2.49  | 19.77 | 65.40  | 2.84  | 25.99 |  |
| TOTAL            |        | 12.62 | 100   |        | 10.94 | 100   |  |
| Boron            | 0.20   |       |       | 0.17   |       |       |  |
| Iron             | 0.10   |       |       | 0.27   |       |       |  |
| Manganese        | 0.06   |       |       | 0.06   |       |       |  |
| Copper           | 0.04   |       |       | 0.11   |       |       |  |
| Zinc             | 0.02   |       |       | 0.04   |       |       |  |
| Aluminum         | 0.26   |       |       | 0.42   |       |       |  |
| Ammonium (NH4-N) | 10.5   |       |       | 101.3  |       |       |  |
| ESP (calculated) | 0.46   |       |       | 1.10   |       |       |  |
| SAR (calculated) | 1.17   |       |       | 1.61   |       |       |  |

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