|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Baseline** | | | | **2007** | | | | **2008** | | | |
|  |  | *Concrete-based* | | *Brick-based* | | *Concrete-based* | | *Brick-based* | | *Concrete-based* | | *Brick-based* | |
|  |  | 5.5 cm | 8 cm | 5.5 cm | 8 cm | 5.5 cm | 8 cm | 5.5 cm | 8 cm | 5.5 cm | 8 cm | 5.5 cm | 8 cm |
| **Total soil Nitrogen (mg/kg)** | **Treatment**  *Control* | 2.14 | 2.95 | 0.29 | 2.21 | 0.81 | 0.69 | 1.45 | 2.05 | 0.85 | 0.86 | 0.75 | 0.87 |
| *Fungi* |  |  |  |  | 1.67 | 0.88 | 0.93 | 0.75 | 0.98 | 0.85 | 0.72 | 1.08 |
| *Tea* |  |  |  |  | 0.41 | 0.84 | 4.96 | 1.00 | 0.97 | 1.33 | 0.73 | 0.94 |
| *Fungi + Tea* |  |  |  |  | 0.99 | 1.57 | 3.40 | 2.70 | 0.65 | 1.01 | 0.65 | 1.34 |
| **Soil Phosphates (mg/kg)** | *Control* | 1.51 | 0.63 | 0.66 | 1.59 | 1.14 | 1.62 | 1.40 | 1.79 | 0.94 | 1.23 | 0.76 | 1.06 |
| *Fungi* |  |  |  |  | 1.18 | 1.44 | 0.78 | 0.78 | 1.10 | 1.14 | 0.84 | 1.07 |
| *Tea* |  |  |  |  | 1.58 | 0.82 | 2.77 | 2.41 | 1.15 | 1.09 | 0.77 | 0.93 |
| *Fungi + Tea* |  |  |  |  | 1.53 | 0.95 | 1.39 | 3.13 | 0.59 | 0.98 | 0.57 | 1.25 |
| **Soil Potassium (mg/kg)** | *Control* | 15.79 | 16.88 | 15.15 | 24.60 | 5.27 | 9.08 | 0.01 | 0.01 | 18.42 | 14.44 | 18.70 | 14.86 |
| *Fungi* |  |  |  |  | 7.10 | 12.23 | 6.84 | 12.11 | 17.16 | 13.85 | 18.00 | 14.44 |
| *Tea* |  |  |  |  | 12.12 | 4.63 | 6.65 | 17.13 | 14.92 | 11.13 | 18.03 | 28.65 |
| *Fungi + Tea* |  |  |  |  | 10.43 | 11.00 | 11.12 | 4.97 | 16.78 | 11.61 | 17.61 | 16.79 |

**Table 1.** Substrate nutrients analysis, with regards to microbial treatment and underlying substrate type and depth on London Zoo green roof experimental site, where: Baseline = before microbial treatments added, 2007 = after treatments and 2008 = one year after treatments applied.