SMT1

Environmental parameters of samples across sites (Means± standard deviation)

|  |  |  |  |
| --- | --- | --- | --- |
| **Water** | **Temperature(ºC)** | **Salinity(ppt)** | **pH(su)** |
| Site 1 (0 m) | 27.1±0.105 | 30.85±0.3979 | 7.96±0.031 |
| Site 2 (80 m) | 28.14±1.03 | 32.71±0.48 | 6.99±0.086 |
| Site 3 (180 m) | 27.35±0.88 | 33.68±2.413 | 7.40±0.087 |
| **Sediment** |   |   |   |
| Site 1 (0 m) | 26.33±0.2 | 27.62±0.537 | 7.44±0.096 |
| Site 2 (80 m) | 28.5±0.433 | 25.43±0.965 | 6.47±0.193 |
| Site 3 (180 m) | 27.53±0.766 | 30.55±1.44 | 6.81±0.101 |

SMT2

Correlations of environmental parameters in sediment samples versus bacterial concentrations transformed to a logarithmic scale

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sediment** | **Coordinates** | **n** | **Rho** | **p** |
| **Site 1** | 9°24’9.59” N -79°51’38.595” W |  |  |  |
| Salinity |  | 10 | -0.278 | 0.436 |
| pH |  | 10 | 0.556 | 0.095 |
| Temperature |  | 10 | 0.243 | 0.499 |
| **Site 2** | 9°24’8.8” N -79°51’40.799” W |  |  |  |
| Salinity |  | 10 | -0.177 | 0.625 |
| pH |  | 10 | 0.102 | 0.779 |
| Temperature |  | 10 | 0.538 | 0.109 |
| **Site 3** | 9°24’8.2” N -79°51’42.8” W |  |  |  |
| Salinity |  | 10 | -0.150 | 0.679 |
| pH |  | 10 | 0.168 | 0.643 |
| Temperature |  | 10 | **0.773\*** | **0.009** |

n = number of samples; Rho = Spearman's Rank correlation; p = probabilistic value. p ≤ 0.05 is considered significant.

SMT3

OTU frequencies across sites and sources

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sources(ID-Site) | # Seq | OTU0 | OTU1 | OTU2 | OTU3 | OTU4 | OTU5 | OTU6 | OTU7 |
| Sediment(RS1) | 15 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sediment(RS2) | 15 | 8 | 5 | 1 | 1 | 0 | 0 | 0 | 0 |
| Sediment(RS3) | 15 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water(RW1) | 14 | 1 | 4 | 0 | 0 | 3 | 1 | 3 | 2 |
| Water(RW2) | 14 | 6 | 5 | 0 | 0 | 0 | 0 | 1 | 2 |
| Water(RW3) | 14 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |