

## SMT1

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

Water	Temperature(°C)	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
<b>Site 1</b>	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
<b>Site 2</b>	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
<b>Site 3</b>	9°24'8.2" N - 79°51'42.8" W			
Salinity		10	-0.150	0.679
pH		10	0.168	0.643
Temperature		10	<b>0.773*</b>	<b>0.009</b>

n = number of samples; Rho = Spearman's Rank correlation; p = probabilistic value.  $p \leq 0.05$  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	14	1	4	0	0	3	1	3	2

(RW1)									
Water	14	6	5	0	0	0	0	1	2
(RW2)									
Water	14	10	2	0	0	0	0	0	2
(RW3)									