

Table S3 OTU, N and sequence results among different V regions across taxonomic ranks in sediment and water samples

V region	Simples	Category	Phylum	Class	Order	Family	Genus
Water	V3	Sequence	96,957	95,653	86,695	80,439	54,583
		OTU	585	543	418	333	171
		N ^a	22	41	71	92	82
	V4	Sequence	105,958	105,135	97,501	91,139	60,710
		OTU	633	606	518	449	231
		N ^a	24	38	75	99	99
	V6	Sequence	95,814	94,674	80,880	77,090	53,562
		OTU	1,071	1,036	819	710	375
		N ^a	11	23	44	53	50
Sediment	V3	Sequence	33,182	28,870	19,192	13,804	6,935
		OTU	1,848	1,522	1,046	686	306
		N ^a	41	71	117	138	121
	V4	Sequence	35,172	32,073	21,842	15,193	8,448
		OTU	1,512	1,258	906	636	297
		N ^a	33	61	114	133	119
	V6	Sequence	26,542	24,161	15,562	10,766	3,202
		OTU	1,172	1,014	662	406	156
		N ^a	20	43	84	85	64

^a The number of categories under specified taxonomic ranks. e.g., Number of the genera at the genus level. The maximum (OTU, N, and Sequence) among the different regions marked in bold.