

Table S4. Correlation between the archaeal and bacterial community composition and explanatory factors using db-RDA. DOC, dissolved organic carbon; DO, dissolved oxygen; Arc1, archaeal community composition represented by the first axis of a PCoA; Arc2, archaeal community composition represented by the second axis of a PCoA; Bac1, bacterial community composition represented by the first axis of a PCoA; Bac2, bacterial community composition represented by the second axis of a PCoA.

	Archaea				Bacteria			
	Df	SumOfSqs	F	Pr(>F)	Df	SumOfSqs	F	Pr(>F)
DOC	1	0.49338	1.2732	0.088	1	0.49075	1.1705	0.041
NH4	1	0.55260	1.4260	0.010	1	0.53506	1.2761	0.003
pH	1	0.52177	1.3465	0.058	1	0.50370	1.2013	0.029
Temperature	1	0.66014	1.7036	0.008	1	0.58418	1.3933	0.005
DO	1	0.49660	1.2815	0.090	1	0.48560	1.1582	0.075
Bac1	1	0.35004	0.9033	0.711	na	na	na	na
Bac2	1	0.48701	1.2568	0.096	na	na	na	na
Arc1	na	na	na	na	1	0.46535	1.1099	0.130
Arc2	na	na	na	na	1	0.48275	1.1514	0.069
Residual	3	1.16253			3	1.25783		