

Table S7. Bray-Curtis, Chao 1 and Shannon diversity indices on re-sampled 16S rDNA OTU datasets (5670 reads per sample)\*.

	Source			Grezieu				YRO			Chao1 [95% confidence interval]	Shannon [95% confidence interval]
	SW	BS	HS	WW	SW	BS	HS	SW	BS	HS		
SW_Source											3244.1 [2922.9-3632.8]	5.3 [5.2-5.4]
BS_Source	0.752										5581.1 [5116.8-6120.6]	6.7 [6.7-6.8]
HS_Source	0.901	0.777									6431.5 [5921.6-7018.5]	7.2 [7.1-7.2]
WW_Grezieu	0.927	0.975	0.987								2632.5 [2239.5-3140.4]	4.7 [4.6-4.7]
SW_Grezieu	0.849	0.899	0.965	0.875							7065.5 [6058.8-8298.4]	5.6 [5.6-5.7]
BS_Grezieu	0.796	0.705	0.831	0.946	0.869						9279.3 [8414.1-10275.7]	7.1 [7.0-7.1]
HS_Grezieu	0.883	0.817	0.777	0.971	0.924	0.734					10071.8 [9202.3-11064.6]	7.5 [7.4-7.5]
SW_YRO	0.869	0.911	0.959	0.943	0.784	0.905	0.938				1553.4 [1307.4-1885.9]	3.5 [3.5-3.6]
BS_YRO	0.879	0.736	0.872	0.964	0.939	0.744	0.859	0.902			3208.1 [2892.9-3590.9]	5.9 [5.8-5.9]
HS_YRO	0.902	0.864	0.859	0.972	0.942	0.861	0.859	0.957	0.898		4893.5 [4514.4-5334.6]	6.8 [6.8-6.9]

\* SW: Surface Water, BS: Benthic Sediment, HS: Hyporheic Sediment