

Table S2: The detection of bacterial sequences in environmental samples at resolution down to the order level. The classification was conducted on quality filtered and chimera free sequence libraries for each sample. Green boxes indicate sequence classes that were detected.

Classification	ANBR	DWDS	MGCT	SW	GC	OP-YNP
Acidobacteria						
Acidobacteria_Gp21						
Acidobacteria_Gp3						
Acidobacteria_Gp4						
Acidobacteria_Gp6						
Acidobacteria_Gp7						
Holophagae						
Holophagales						
unclassified						
Actinobacteria						
Actinobacteria						
Acidimicrobidae						
Actinobacteridae						
Coriobacteridae						
Rubrobacteridae						
unclassified						
Aquificae						
Aquificae						
Aquificales						
Bacteroidetes						
Bacteroidetes_incertae_sedis						
Fulvivirga						
unclassified						
Bacteroidia						
Bacteroidales						
Flavobacteria						
Flavobacteriales						
Sphingobacteria						
Sphingobacteriales						
unclassified						
unclassified_Bacteroidetes						
Caldiserica						
Caldisericia						
Caldisericales						
Chlamydiae						
Chlamydiae						
Chlamydiales						
Chloroflexi						
Anaerolineae						
Anaerolineales						
Caldilineae						

	Caldilineales						
	Chloroflexi						
	Chloroflexales						
	unclassified						
	unclassified_Chloroflexi						
	Chrysiogenetes						
	Chrysiogenetes						
	Chrysiogenales						
	Cyanobacteria						
	Cyanobacteria						
	Chloroplast						
	Family_II						
	Family_XI						
	Deinococcus-Thermus						
	Deinococci						
	Thermales						
	Firmicutes						
	Bacilli						
	Bacillales						
	Lactobacillales						
	Clostridia						
	Clostridiales						
	Thermoanaerobacterales						
	unclassified_Clostridia						
	Erysipelotrichi						
	Erysipelotrichales						
	unclassified						
	unclassified_Firmicutes						
	Fusobacteria						
	Fusobacteria						
	Fusobacteriales						
	Gemmatimonadetes						
	Gemmatimonadetes						
	Gemmatimonadales						
	Lentisphaerae						
	Lentisphaeria						
	Victivallales						
	unclassified_Lentisphaeria						
	Nitrospira						
	Nitrospira						
	Nitrospirales						
	OD1						
	OD1_genera_incertae_sedis						
	OP10						
	OP10_genera_incertae_sedis						
	Planctomycetes						

Planctomycetacia						
Planctomycetales						
Proteobacteria						
Alphaproteobacteria						
Alphaproteobacteria_incertae_sedis						
Rhizobiales						
Rhodobacterales						
Rhodospirillales						
Rickettsiales						
Sphingomonadales						
unclassified						
unclassified_Alphaproteobacteria						
Betaproteobacteria						
Burkholderiales						
Hydrogenophilales						
Methylophilales						
Neisseriales						
Nitrosomonadales						
unclassified						
unclassified_Betaproteobacteria						
Deltaproteobacteria						
Bdellovibrionales						
Desulfobacterales						
Desulfovibrionales						
Desulfurellales						
Desulfuromonadales						
Myxococcales						
Syntrophobacterales						
Syntrophorhabdaceae						
unclassified						
unclassified_Deltaproteobacteria						
Epsilonproteobacteria						
Campylobacterales						
unclassified						
Gammaaproteobacteria						
Alteromonadales						
Chromatiales						
Enterobacterales						
Gammaaproteobacteria_incertae_sedis						
Legionellales						
Methylococcales						
Oceanospirillales						
Pseudomonadales						
Thiotrichales						
Xanthomonadales						
unclassified						
unclassified_Gammaaproteobacteria						

unclassified						
unclassified_Proteobacteria						
Spirochaetes						
Spirochaetes						
Spirochaetales						
Synergistales						
Acholeplasmatales						
unclassified_Mollicutes						
Verrucomicrobia						
Opitutae						
Opitutales						
Puniceococcales						
unclassified						
unclassified_Opitutae						
Spartobacteria						
Spartobacteria_genera_incertae_sedis						
Subdivision3						
Subdivision3_genera_incertae_sedis						
Subdivision5						
Subdivision5_genera_incertae_sedis						
Verrucomicrobiae						
Verrucomicrobiales						
unclassified						
unclassified_Verrucomicrobia						
WS3						
WS3_genera_incertae_sedis						
unclassified						
unclassified_Bacteria						