

Table S4. Dominant taxa by Site

Phylum	Class	Order	Subgroup	RF	CF	P
Archaea						
Methanobacteria	Methanobrevibacter	Methanobacterium_subterraneum		0.3 +/- 0.5	5.4 +/- 3.8	**
Methanomicrobia	Methanosarcinales	Methanosarcinaceae	Methanosarcina	0.2 +/- 0.3	1.3 +/- 1.6	*
Bacteria						
Acidobacteria	Acidobacteriales	UA1		0.3 +/- 0.3	1.4 +/- 1.2	*
Actinobacteria	Actinobacteridae	Actinomycetales	Propionibacterineae; Nocardioideaceae	1.4 +/- 2	0	*
Bacteroidetes	Bacteroidales	BCf7-02		10.5 +/- 9.6	3.1 +/- 3.5	*
Bacteroidetes	Bacteroidales	Bacteroidetes_bacterium_PPf50E2; E1-K9; BA017		0.9 +/- 1.8	0	
Bacteroidetes	Bacteroidales	Dysgonomonaceae		0.4 +/- 1	0	
Bacteroidetes	Bacteroidales	Proteophilaceae		4.5 +/- 15.1	0	
Firmicutes	Bacillales	Bacillaceae	Bacillus	1.1 +/- 3	0	
Firmicutes	Bacillales	Paenibacillaceae	Paenibacillus	0.3 +/- 0.6	0.1 +/- 0.1	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	1.6 +/- 2.7	17.8 +/- 36.5	*
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	11.4 +/- 29.9	14.3 +/- 15.8	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	2.2 +/- 3.3	0.1 +/- 0.2	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	2.2 +/- 6.7	3.8 +/- 5	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	15.8 +/- 21.3	8.5 +/- 28.8	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	3.8 +/- 5	0 +/- 0.1	*
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	8.1 +/- 15.2	2.3 +/- 2.2	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	2 +/- 2.2	0 +/- 0.1	*
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	0.5 +/- 0.4	0.6 +/- 0.7	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	2.5 +/- 3.6	0	*
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	0.6 +/- 1.2	0	
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	0.9 +/- 1	0	*
Firmicutes	Clostridia	Clostridiales	Clostridiaceae; Clostridium	2.2 +/- 3.6	0	
Firmicutes	Clostridia	Clostridiales	Clostridium_aminovaleericum	2.7 +/- 5.8	0	
Firmicutes	Clostridia	Clostridiales	Faecalibacterium	0.1 +/- 0.1	0.7 +/- 1	*
Firmicutes	Clostridia	Clostridiales	Ruminococcus	0.3 +/- 1	12.5 +/- 12.8	*
Firmicutes	Clostridia	Clostridiales	Ruminococcus; Ruminococcus_bromii	0.9 +/- 1.3	0	**
Firmicutes	Clostridia	Clostridiales	UC7-69	0.3 +/- 0.8	0	*
Firmicutes	Clostridia	Clostridiales		0.4 +/- 0.8	2 +/- 3.5	
Proteobacteria	Alphaproteobacteria	Ellin329		12.5 +/- 11.8	20.2 +/- 12.4	
Proteobacteria	Alphaproteobacteria	Rhizobiales		1 +/- 1.9	0	
Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae; Desulfovibrio	0.8 +/- 1.2	0.3 +/- 0.4	
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae; Enterobacter	0.8 +/- 1.6	0	
Eukaryota						
stramenopiles	Oomycetes	Peronosporales	Phytophthora		0 0.3 +/- 0.7	

P . <0.1; * <0.05; ** <0.01