

Table S1. Summary of pilot metatranscriptomics of all soil samples.

Soil ID	Layer	Replicate	No. of sequences						MG-RAST ID	
			total (length ^a (bp))		rRNA	Protein coding genes	<i>pmo</i>	<i>mcr</i>		
W0	S	1	1,145,090	(165±30)	184,089	73,381	3	3	4574619.3	
		2	2,055,449	(163±28)	358,899	114,410	9	2	4574620.3	
		3	1,986,908	(152±30)	319,619	103,841	4	8	4574621.3	
W2		1	1,232,072	(216±57)	238,286	96,158	14	1	4572585.3	
		2	1,937,439	(185±54)	142,610	54,663	24	1	4571599.3	
		3	688,359	(163±30)	291,217	112,538	3	1	4572782.3	
W6		1	1,923,602	(199±59)	275,268	102,324	5	4	4572781.3	
		D	2	2,274,209	(149±31)	266,772	86,520	7	5	4572805.3
			3	811,392	(157±31)	122,103	47,740	2	3	4572786.3
	S		1	1,223,076	(141±27)	138,034	55,520	13	0	4566479.3
		2	1,181,211	(141±26)	139,879	56,558	24	0	4566762.3	
		3	428,896	(198±39)	92,371	38,797	7	1	4574613.3	
	I	1	2,468,737	(150±31)	311,017	100,885	4	51	4572787.3	
		D	2	1,742,462	(145±26)	243,724	77,342	6	39	4567420.3
			3	1,584,681	(193±37)	259,385	92,373	5	54	4574668.3
S			1	1,677,325	(227±50)	306,346	114,344	1	0	4573386.3
		2	1,387,337	(218±56)	247,417	95,530	6	0	4573391.3	
		3	1,344,673	(186±39)	214,615	82,554	2	0	4574614.3	
CD		1	1,668,613	(216±49)	244,786	94,560	6	0	4573395.3	
		D	2	1,493,309	(233±50)	258,504	98,083	3	1	4573390.3
			3	813,068	(189±41)	131,574	55,957	7	2	4574618.3
	S		1	146,904	(224±34)	31,066	18,467	1	0	4582024.3
		2	1,588,017	(222±34)	124,558	98,452	5	0	4582027.3	
		3	1,829,917	(203±38)	128,365	106,545	9	1	4582030.3	
	D	1	9,578	(219±34)	3,356	1,646	0	0	4582026.3	
		2	1,270,223	(219±35)	98,544	75,441	4	3	4582029.3	
		3	413,131	(218±34)	48,080	33,971	0	1	4582049.3	