

## TABLES

Table S1 – Taxa found in soils that get rarer along the transect (declining).

OTU	slope	p-value	Phylum	Class	Order	Family	Genus
Otu00009	-5.115e-05	0.02755	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>
Otu00010	-4.281e-05	0.5521	Proteobacteria	Unclassified	Unclassified	Unclassified	Unclassified
Otu00011	-1.928e-05	0.6012	Proteobacteria	Betaproteobacteria	Unclassified	Unclassified	Unclassified
Otu00018	-4.637e-05	0.02114	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>
Otu00022	-2.499e-05	0.1182	Verrucomicrobia	Opitutae	Unclassified	Unclassified	Unclassified
Otu00028	-3.043e-05	0.02359	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	<i>Pseudomonas</i>
Otu00030	-2.222e-06	0.2763	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	<i>Micrococcus</i>
Otu00039	-8.511e-06	0.1787	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	<i>Comamonas</i>
Otu00045	-7.99e-06	0.5276	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	Unclassified
Otu00059	-6.488e-05	0.02553	Actinobacteria	Actinobacteria	Actinomycetales	Micrococcaceae	<i>Arthrobacter</i>
Otu00065	-5.535e-05	0.02116	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Sphingobacteriaceae	<i>Pedobacter</i>
Otu00072	-1.884e-05	0.09149	Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	<i>Sphingomonas</i>
Otu00077	-5.843e-05	0.01187	Bacteroidetes	Flavobacteriia	Flavobacteriales	Flavobacteriaceae	<i>Flavobacterium</i>
Otu00086	-1.26e-05	0.03621	Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	<i>Bradyrhizobium</i>
Otu00094	-2.214e-05	0.03169	Proteobacteria	Betaproteobacteria	Burkholderiales	Oxalobacteraceae	<i>Duganella</i>
Otu00095	-3.555e-05	0.03614	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Unclassified
Otu00170	-2.475e-05	0.02878	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Sphingobacteriaceae	Unclassified
Otu00545	-1.25e-06	0.02985	Actinobacteria	Actinobacteria	Solirubrobacterales	Solirubrobacteraceae	<i>Solirubrobacter</i>

Table S2 – Taxa found in soils that get more common along the transect (maintained).

OTU	slope	p-value	Phylum	Class	Order	Family	Genus
Otu00001	1.437e-05	0.07999	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Unclassified
Otu00002	0.0002104	0.002237	Actinobacteria	Actinobacteria	Actinomycetales	Unclassified	Unclassified
Otu00003	9.845e-05	0.006441	Verrucomicrobia	Spartobacteria	Unclassified	Unclassified	Unclassified
Otu00005	3.593e-05	0.01737	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Chitinophagaceae	<i>Sediminibacterium</i>
Otu00006	6.515e-06	0.1618	Bacteroidetes	Sphingobacteriia	Sphingobacteriales	Saprospiraceae	Unclassified
Otu00012	7.565e-06	0.09905	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Unclassified
Otu00014	8.415e-05	0.0007891	Actinobacteria	Actinobacteria	Actinomycetales	Unclassified	Unclassified
Otu00023	3.479e-07	0.8	Proteobacteria	Gammaproteobacteria	Pseudomonadales	Moraxellaceae	<i>Acinetobacter</i>
Otu00029	3.301e-05	0.004456	Actinobacteria	Actinobacteria	Actinomycetales	Unclassified	Unclassified
Otu00032	3.59e-06	0.8341	Bacteroidetes	Unclassified	Unclassified	Unclassified	Unclassified
Otu00033	9.093e-06	0.7085	Proteobacteria	Alphaproteobacteria	Rhizobiales	Unclassified	Unclassified