

Table S1. Results for publication bias. Sample size is the number of observations.

Group	Sample size	Egger's test		Fail safe number	
		Z	P	Fail-safe N	P
BD	266	0.27	0.79	87403	<0.01
MWD	38	1.69	0.09	26338	<0.01
CLAY	100	-0.79	0.43	262	<0.01
SWC	146	0.83	0.41	41051	<0.01
K <sub>s</sub>	33	0.49	0.63	4796	<0.01
pH	248	0.44	0.66	6165073	<0.01
SOC	337	-0.98	0.33	28834380	<0.01
TN	332	-3.64	0.00	3911139	<0.01
TP	246	0.29	0.77	12286	<0.01
AN	106	-4.89	<0.01	1065071	<0.01
AP	207	-1.85	0.06	75261	<0.01
AK	98	-0.29	0.77	1926743	<0.01
MBC	229	2.46	0.01	3844251	<0.01
MBN	185	0.49	0.62	943072	<0.01
MBP	125	3.94	<0.01	150970	<0.01
T-PLFAs	19	0.84	0.40	4283	<0.01
Bac-PLFA	27	-1.36	0.17	4693	<0.01
Fun-PLFA	31	3.52	0.00	5270	<0.01
Bac-Chao 1	27	1.78	0.08	859	<0.01
Bac-Ace	30	2.10	0.04	16	0.02
Bac-Shannon	53	0.71	0.48	8875850	<0.01
Bac-Simpson	17	0.72	0.47	41	<0.01
Fun-Chao 1	25	-1.57	0.12	553	<0.01
Fun-Ace	28	-1.95	0.05	110	<0.01
Fun-Shannon	47	-2.27	0.02	67	<0.01
Fun-Simpson	18	-0.06	0.96	3499	<0.01
MR	42	2.07	0.04	31272	<0.01
BR	14	-1.91	0.06	471	<0.01
qCO <sub>2</sub>	56	0.57	0.57	6133	<0.01
BG	44	0.01	-2.60	57739	<0.01
CBH	15	2.64	0.01	1987	<0.01
NAG	21	2.42	0.02	806	<0.01
LAP	17	1.90	0.06	87	<0.01
URE	114	-2.10	0.04	98820	<0.01
ALP	80	-2.46	0.01	373619	<0.01
CAT	87	1.42	0.16	222982	<0.01
INV	112	1.49	0.14	322134	<0.01
ALA	30	-0.59	0.56	1407	<0.01
CEL	40	-1.79	0.07	12275	<0.01
PPO	50	3.39	<0.01	58003	<0.01