Table S5. PCR primer sets used in this study.

Primers		Target gene	Sequence (5' -> 3')	Annealing temperature	Reference
515F	F	16S rRNA	GTGCCAGCMGCCGCGGTAA	55 ˚C	Caporaso et al., 2011
806R	R		GGACTACHVGGGTWTCTAAT		
nirSC1	F	nirS cluster I	ATCGTCAACGTCAARGARACVGG	56 ˚C	Wei et al., 2015
	R		TTCGGGTGCGTCTTSABGAASAG		
nirSC2	F	nirS cluster II	TGGAGAACGCCGGNCARGTNTGG	56 ˚C	Wei et al., 2015
	R		GATGATGTCCACGGCNACRTANGG		
nirKC1	F	nirK cluster I	ATGGCGCCATCATGGTATGGTNYTNCC	54 ˚C	Wei et al., 2015
	R		TCGAAGGCCTCGATNARRTTRTG		
nirKC2	F	nirK cluster II	TGCACATCGCCAACGGNATGTWYGG	56 ˚C	Wei et al., 2015
	R		GGCGCGGAAGATGSHRTGRTCNAC		
nirKC3	F	nirK cluster III	CATCGGCAACGGCATGYAYGGNGC	58 ˚C	Wei et al., 2015
	R		CGACCATGGCCGTGGSWNACRAANGG		
nicKC4	F	nirK cluster IV	TACGGTGTGATCATCRTSGATCC	60 ˚C	Wei et al., 2015
	R		GCATCACGCATGGAATGATYSAC		
cnorB	F	cnorB	GACAAGNNNTACTGGTGGT	54 ˚C	Braker et al., 2003
	R		GAANCCCCANACNCCNGC		
qnorB	F	qnorB	TGGTGGGTSGTBCAYCTNTGGGT	60 ˚C	Ahn et al., 2014
	R		CCSGCGCCSACSRDRTTCCAGA		
nosZ	F	nosZ clade I	CGCTGTTCITCGACAGYCAG	56 ˚C	Rich et al., 2003
	R		ATGTGCAKIGCRTGGCAGAA		
nosZII	F	nosZ clade II	CTIGGICCIYTKCAYAC	54 ˚C	Jones et al., 2013
	R		GCIGARCARAAITCBGTRC		