

Table 16. Laboratory incubation denitrification rates for the experiment of May 13, 2009

[NEC, Northeast Creek watershed;BHM, Bass Harbor Marsh watershed;GW#, measurement site; NO₃, nitrate;

mM, millimolar; nmoles, nanomoles; hr, hour; T₀, date and time chamber sealed and initial gas sampling;

T₁, T₂, T₃, subsequent gas sampling times; g, gram; C₂H₂, acetylene; N₂O, nitrous oxide]

Location	Fresh weight (g)	T ₀	T ₁	T ₂	T ₃	Treatment	Number of replicate measurements	N ₂ O Production rate	
								T ₁ to T ₂	T ₂ to T ₃
								nmoles/g oven dry soil/hr	nmoles/g oven dry soil/hr
NEC GW6	20.24	11:52	11:52	14:58	16:30	50 mM NO ₃ + C ₂ H ₂	3	0.871	1.49
NEC GW6	20.57	11:54	11:54	14:59	16:31	50 mM NO ₃	3	0.403	1.86
BHM GW2	20.16	11:55	11:55	15:01	16:33	50 mM NO ₃ + C ₂ H ₂	3	3.68	7.67
BHM GW2	20.13	11:57	11:57	15:03	16:35	50 mM NO ₃	3	1.31	5.28
BHM GW3	20.22	11:58	11:58	15:04	16:36	50 mM NO ₃ + C ₂ H ₂	3	8.9	14.2
BHM GW3	20.35	12:00	12:00	15:06	16:38	50 mM NO ₃	3	3.43	9.09
BHM GW4	20.52	12:01	12:01	15:07	16:39	50 mM NO ₃ + C ₂ H ₂	3	2.71	6.63
BHM GW4	20.72	12:02	12:02	15:09	16:41	50 mM NO ₃	3	3.1	7.9