

Table 15. Laboratory incubation denitrification rates for the experiment of May 7, 2009

[NEC, Northeast Creek 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; hr, hour; 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 GW2	20.7	10:45	10:45	13:36	17:03	50 mM NO ₃ + C ₂ H ₂	3	11.2	25.3
NEC GW2	20.2	10:47	10:47	13:46	17:06	50 mM NO ₃	2	8.48	23
NEC GW3	20.2	10:48	10:48	13:50	17:07	50 mM NO ₃ + C ₂ H ₂	3	13.4	23.6
NEC GW3	20.2	10:50	10:50	13:52	17:09	50 mM NO ₃	3	9.45	20
NEC GW4	20.3	10:51	10:51	13:54	17:11	50 mM NO ₃ + C ₂ H ₂	3	25.6	25.2
NEC GW4	20.5	10:53	10:53	13:57	17:14	50 mM NO ₃	3	29.8	9.83
NEC GW5	20.1	10:55	10:55	13:59	17:15	50 mM NO ₃ + C ₂ H ₂	3	9.18	15.6
NEC GW5	20.3	10:56	10:56	14:02	17:17	50 mM NO ₃	3	6.55	12.4