

Table 7. Rate of release of N₂O measurements made in September 2008.

[BHM, Bass Harbor Marsh Watershed; GW#, measurement site; mM, millimolar; Temp., temperature; °C, temperature degrees Celsius; NO₃, nitrate; nmoles, nanomoles; m, meters; hr, hours; sq, square; T₀, date and time chamber sealed; T₁, beginning of period of associated flux calculation; T₂ ending of period of flux calculation; N₂O, nitrous oxide; C₂H₂, Acetylene]

Location	Sequence No. ¹	Chamber Sealed (T ₀)	Start Time (T ₁)	End Time (T ₂)	Treatment	Number of replicate measurements ²	Soil Temp. (°C)	Net N ₂ O release ³ (nmoles/s q m/hr)
BHM GW3	1	9/10/08 16:53	9/10/08 16:53	9/11/08 8:05	Ambient	12	16.0	343
BHM GW3	1	9/11/2008 10:42	9/11/08 10:42	9/11/08 15:26	25 mM NO ₃	3	16.0	10300
BHM GW3	2	9/11/2008 10:42	9/11/08 15:25	9/11/08 18:40	25 mM NO ₃	3	16.0	13000
BHM GW3	3	9/11/2008 10:42	9/11/08 18:40	9/12/08 7:50	25 mM NO ₃	2	16.0	7470
BHM GW3	1	9/11/08 10:45	9/11/08 10:45	9/11/08 15:28	50 mM NO ₃	3	16.0	15500
BHM GW3	2	9/11/2008 10:46	9/11/08 15:28	9/11/08 18:43	50 mM NO ₃	3	16.0	21400
BHM GW3	3	9/11/2008 10:46	9/11/08 18:43	9/12/08 7:53	50 mM NO ₃	3	16.0	7110
BHM GW3	1	9/11/08 10:50	9/11/08 10:50	9/11/08 15:31	75 mM NO ₃	3	16.0	6360
BHM GW3	2	9/11/2008 10:51	9/11/08 15:31	9/11/08 18:46	75 mM NO ₃	3	16.0	22900
BHM GW3	3	9/11/2008 10:51	9/11/08 18:46	9/12/08 7:56	75 mM NO ₃	3	16.0	13200
BHM GW3	1	9/11/08 10:53	9/11/08 10:53	9/11/08 15:34	100 mM NO ₃	3	16.0	25100
BHM GW3	2	9/11/2008 10:54	9/11/08 15:34	9/11/08 18:49	100 mM NO ₃	3	16.0	60300
BHM GW3	3	9/11/2008 10:54	9/11/08 18:49	9/12/08 7:59	100 mM NO ₃	3	16.0	31800
BHM GW2	1	9/12/2008 9:26	9/12/08 12:26	9/12/08 13:48	25 mM NO ₃ + C ₂ H ₂	3	16.0	17100
BHM GW2	1	9/12/2008 9:31	9/12/08 12:29	9/12/08 13:51	25 mM NO ₃	3	16.0	5800
BHM GW3	1	9/12/2008 9:20	9/12/08 12:23	9/12/08 13:45	25 mM NO ₃ + C ₂ H ₂	3	16.0	47100
BHM GW1	1	9/15/2008 12:41	9/15/08 14:57	9/15/08 18:15	25 mM NO ₃	3	16.5	48300
BHM GW1	2	9/15/2008 12:41	9/15/08 18:15	9/16/08 10:40	25 mM NO ₃	3	16.5	58800
BHM GW1	1	9/15/2008 12:42	9/15/08 15:00	9/15/08 18:18	25 mM NO ₃ + C ₂ H ₂	3	16.5	62700
BHM GW1	2	9/15/2008 12:42	9/15/08 18:18	9/16/08 10:43	25 mM NO ₃ + C ₂ H ₂	3	16.5	88200
BHM GW4	1	9/15/08 14:32	9/15/08 14:32	9/15/08 18:32	25 mM NO ₃	3	16.5	13100
BHM GW4	1	9/15/08 14:36	9/15/08 14:36	9/15/08 18:35	25 mM NO ₃ + C ₂ H ₂	3	16.5	27100

BHM GW5	1	9/16/2008 7:55	9/16/08 10:40	9/16/08 12:48	15 mM NO ₃	3	16.5	16900
BHM GW6	1	9/16/2008 8:35	9/16/08 10:50	9/16/08 13:13	15 mM NO ₃	1	16.5	8110

¹Sequence numbers refer to the chronologically ordered N₂O release rate measurements at a given site for the same treatment following sealing of the chamber.

²Replicate measurements refers to the number of individual chambers receiving the same treatment. Values shown are for the average of measurements receiving the same treatment.