Appendix A: Tables with measurements available at HELCOM stations for 2011

Table A.1 Monthly and annual mean concentrations of nitrogen components in air.

		Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
DE0009R	nitrogen_dioxide	µg N /m3	3.69	2.19	2.32	3.02	1.75	1.66	1.80	1.57	1.99	2.62	3.85	1.95	2.35
DK0005R	nitrogen_dioxide	µg N /m3	3.83	3.08	3.27	3.93	3.17	1.87	1.47	1.67	3.52	3.53	5.00	2.49	3.07
DK0008R	nitrogen_dioxide	µg N /m3	3.21	1.92	2.39	3.00	1.63	1.73	-	-	-	-	-	-	-
DK0012R	nitrogen_dioxide	µg N /m3	4.73	2.80	3.09	3.51	2.15	1.55	1.50	1.90	2.01	3.00	4.83	2.87	2.81
EE0009R	nitrogen_dioxide	µg N /m3	5.05	6.96	3.79	3.57	2.52	1.94	1.44	1.21	1.21	1.76	2.32	1.82	2.77
FI0017R	nitrogen_dioxide	µg N /m3	3.13	2.39	1.99	1.83	1.39	0.99	0.86	0.78	0.57	0.74	1.32	0.92	1.40
LT0015R	nitrogen_dioxide	µg N /m3	1.23	0.71	1.04	1.41	0.96	0.92	0.83	0.60	0.70	1.02	1.49	1.61	1.05
LV0010R	nitrogen_dioxide	µg N /m3	-	1.38	0.80	0.60	0.66	1.02	1.04	0.54	0.63	0.85	1.16	1.12	0.88
PL0004R	nitrogen_dioxide	µg N /m3	1.62	1.74	1.40	1.32	1.07	0.97	0.96	1.17	0.75	1.23	3.60	2.01	1.49
SE0005R	nitrogen_dioxide	µg N /m3	0.20	0.34	0.14	0.06	0.13	0.12	0.10	0.08	0.10	0.16	0.13	0.19	0.14
SE0011R	nitrogen_dioxide	µg N /m3	2.66	1.11	1.34	1.08	0.87	0.66	0.70	0.83	1.27	1.81	2.67	1.58	1.38
SE0012R	nitrogen_dioxide	µg N /m3	1.12	0.90	0.62	0.55	0.54	0.48	0.46	0.35	0.34	0.56	0.61	0.57	0.59
SE0014R	nitrogen_dioxide	µg N /m3	2.97	1.20	1.47	-	1.00	1.10	0.92	0.79	1.01	1.41	1.91	1.07	1.35
DK0003R	sum_ammonia_and_ammonium	µg N /m3	1.69	2.33	3.78	5.95	2.85	2.03	1.90	1.63	1.95	-	2.23	0.90	2.51
DK0008R	sum_ammonia_and_ammonium	µg N /m3	1.04	1.09	2.07	2.65	1.27	1.07	0.86	0.77	1.42	1.83	2.35	0.47	1.43
DK0012R	sum_ammonia_and_ammonium	µg N /m3	1.58	1.78	3.78	4.01	2.01	1.64	1.37	1.99	2.22	2.55	3.22	0.94	2.28
DE0009R	ammonium in aerosol	µg N /m3	1.18	1.85	1.87	1.07	0.74	0.38	0.23	-	-	-	-	-	-
DE0009R	ammonium in PM2.5	µg N /m3	-	-	-	-	-	-	0.29	0.44	0.52	1.42	3.07	0.54	-
DE0009R	ammonia in air	µg N /m3	0.11	0.27	3.90	1.90	0.90	0.77	0.46	0.84	0.40	0.67	0.62	0.32	0.96
FI0009R	sum_ammonia_and_ammonium	µg N /m3	0.27	0.37	0.32	0.34	0.35	0.40	0.63	0.47	0.32	0.45	0.57	0.16	0.39
FI0017R	sum_ammonia_and_ammonium	µg N /m3	0.47	0.41	0.36	0.32	0.40	0.43	0.70	0.56	0.31	0.37	0.36	0.20	0.41
FI0037R	sum_ammonia_and_ammonium	µg N /m3	0.30	0.39	0.32	0.23	0.37	0.31	0.35	0.31	0.19	0.27	0.25	0.13	0.28
LT0015R	sum_ammonia_and_ammonium	µg N /m3	0.75	1.42	1.81	1.32	0.91	0.65	0.70	0.79	0.66	0.99	1.17	0.69	0.99
PL0004R	sum_ammonia_and_ammonium	µg N /m3	0.97	1.18	1.89	1.88	1.29	1.05	1.22	1.42	1.38	1.43	2.47	0.95	1.43
SE0005R	sum_ammonia_and_ammonium	µg N /m3	0.08	0.25	0.07	0.17	0.21	0.28	0.34	0.18	0.13	0.11	0.12	0.05	0.16
SE0011R	sum_ammonia_and_ammonium	µg N /m3	0.80	1.07	1.86	1.88	1.31	1.02	0.51	1.20	1.34	1.35	1.80	0.39	1.26
SE0012R	sum_ammonia_and_ammonium	µg N /m3	0.22	0.40	0.48	0.48	0.44	0.41	0.52	0.35	0.29	0.37	0.74	0.15	0.40
SE0014R	sum_ammonia_and_ammonium	µg N /m3	0.65	0.72	1.40	1.78	0.96	0.70	0.82	0.60	0.90	1.06	1.34	0.27	0.94
DK0003R	sum_nitric_acid_and_nitrate	µg N /m3	0.93	1.14	0.97	1.68	0.84	0.58	0.46	0.49	0.97	0.73	1.87	0.46	0.92
DK0008R	sum_nitric_acid_and_nitrate	µg N /m3	0.91	0.62	1.17	1.52	0.80	0.73	0.54	0.58	1.11	1.37	1.40	0.48	0.94
DK0012R	sum_nitric_acid_and_nitrate	µg N /m3	1.23	0.96	1.41	1.53	0.92	0.80	0.58	0.76	1.27	1.55	1.70	0.70	1.13
DE0009R	nitrate in PM2.5	µg N /m3	-	-	-	-	-	-	0.03	0.06	0.18	0.72	1.53	0.33	-
DE0009R	nitrate in aerosol	µg N /m3	0.95	1.06	1.44	1.06	0.63	0.33	0.19	-	-	-	-	-	-
FI0009R	sum_nitric_acid_and_nitrate	µg N /m3	0.31	0.34	0.30	0.34	0.43	0.40	0.45	0.35	0.25	0.38	0.44	0.24	0.35
FI0017R	sum_nitric_acid_and_nitrate	µg N /m3	0.32	0.27	0.34	0.29	0.36	0.22	0.22	0.17	0.13	0.20	0.24	0.19	0.25
FI0037R	sum_nitric_acid_and_nitrate	µg N /m3	0.22	0.24	0.21	0.13	0.15	0.11	0.10	0.09	0.07	0.15	0.12	0.12	0.14
LT0015R	sum_nitric_acid_and_nitrate	µg N /m3	0.64	0.75	0.92	0.93	0.60	0.50	0.41	0.44	0.72	1.06	0.87	0.67	0.71
PL0004R	sum_nitric_acid_and_nitrate	µg N /m3	0.63	0.78	1.25	0.95	0.57	0.38	0.23	0.39	0.62	0.77	1.40	0.68	0.72
SE0005R	sum_nitric_acid_and_nitrate	µg N /m3	0.03	0.07	0.06	0.06	0.04	0.04	0.05	0.03	0.04	0.03	0.03	0.03	0.04
SE0011R	sum_nitric_acid_and_nitrate	µg N /m3	0.68	0.52	0.90	0.76	0.50	0.29	0.20	0.52	0.72	0.80	0.92	0.41	0.63
SE0012R	sum_nitric_acid_and_nitrate	µg N /m3	0.20	0.23	0.33	0.28	0.28	0.23	0.24	0.19	0.16	0.24	0.28	0.20	0.24
SE0014R	sum_nitric_acid_and_nitrate	µg N /m3	0.67	0.41	0.89	1.14	0.65	0.54	0.61	0.43	0.71	0.78	0.80	0.31	0.66

Table A.2 Monthly and annual mean concentrations of heavy metals in air.

		Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
DE0009R	cadmium	ng Cd/m3	0.097	0.281	0.180	0.079	0.060	0.039	0.028	0.070	0.098	0.234	0.524	0.051	0.144
DK0008R	cadmium	ng Cd/m3	0.037	0.133	0.078	0.080	0.047	0.021	0.031	0.073	0.062	0.117	0.242	0.035	0.084
DK0012R	cadmium	ng Cd/m3	0.087	0.208	0.107	0.103	0.054	0.081	0.035	-	0.071	0.136	0.279	0.007	0.112
FI0017R	cadmium	ng Cd/m3	0.176	0.190	0.091	0.067	0.069	0.061	0.122	0.078	0.055	0.076	0.117	0.054	0.096
FI0037R	cadmium	ng Cd/m3	0.090	0.120	0.060	0.050	0.030	0.030	0.030	0.060	0.060	0.070	0.070	0.040	0.059
LV0010R	cadmium	ng Cd/m3	0.045	0.160	0.090	0.050	0.005	0.007	0.016	0.028	0.060	0.125	-	0.122	0.065
SE0005R	cadmium	ng Cd/m3	0.004	0.047	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.008
SE0011R	cadmium	ng Cd/m3	0.016	0.063	0.028	0.022	0.006	0.010	0.010	0.024	0.032	0.041	0.117	0.053	0.035
SE0012R	cadmium	ng Cd/m3	0.035	0.098	0.036	0.042	0.035	0.042	0.050	0.063	0.030	0.063	0.097	0.022	0.051
SE0014R	cadmium	ng Cd/m3	0.063	0.141	0.086	0.057	0.032	0.004	0.023	0.027	0.041	0.131	0.183	0.023	0.066
DE0009R	lead	ng Pb/m3	4.48	8.61	5.35	2.32	2.20	1.57	1.24	1.95	3.12	6.61	15.13	2.05	4.52
DK0008R	lead	ng Pb/m3	1.49	5.28	2.81	2.25	2.01	1.12	1.89	2.46	2.05	4.25	9.36	1.145	3.15
DK0012R	lead	ng Pb/m3	2.82	7.19	4.08	3.06	1.66	1.49	1.55	-	2.52	5.29	11.38	1.363	4.07
FI0017R	lead	ng Pb/m3	4.33	5.29	2.62	1.83	2.38	2.41	3.01	2.36	1.23	1.93	2.48	1.65	2.62
LV0010R	lead	ng Pb/m3	2.69	7.19	3.76	2.39	2.25	1.48	2.21	1.76	2.54	4.15	-	5.38	3.29
SE0005R	lead	ng Pb/m3	0.31	1.31	0.24	0.45	0.30	0.50	0.34	0.37	0.26	0.41	0.60	0.21	0.44
SE0011R	lead	ng Pb/m3	0.39	1.71	0.60	0.57	0.20	0.30	0.29	0.54	0.74	1.05	3.13	1.28	0.89
SE0012R	lead	ng Pb/m3	0.92	3.05	1.11	1.42	0.86	1.04	1.27	1.37	0.93	1.89	2.14	0.69	1.40
SE0014R	lead	ng Pb/m3	1.97	4.22	2.76	2.15	1.63	1.06	1.26	1.22	1.57	3.87	4.89	0.95	2.26
DE0009R	mercury (TGM)	ng Hg/m3	1.56	1.44	1.60	1.60	1.45	1.44	1.59	1.69	1.71	1.78	2.06	1.76	1.64
SE0005R	mercury (TGM)	ng Hg/m3	1.37	1.47	1.50	1.58	1.38	1.43	1.43	1.38	1.28	1.23	1.32	1.35	1.39
SE0011R	mercury (TGM)	ng Hg/m3	1.65	1.50	1.72	1.75	1.42	1.37	1.23	1.50	1.45	1.53	1.72	1.65	1.56
SE0014R	mercury (TGM)	ng Hg/m3	1.45	1.53	1.61	1.73	1.74	1.74	1.59	1.56	1.56	1.58	1.63	1.47	1.60
SE0014R	mercury (aerosol)	pg Hg/m3	9.0	7.4	9.7	8.1	11.3	7.4	7.7	6.4	7.7	10.7	16.3	4.7	8.9

Table A.3 Monthly and annual mean concentrations of ammonium and nitrate in precipitation.

Site	Comp	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
DE0009R	ammonium	mgN/l	0.28	0.40	1.69	0.79	1.25	0.66	0.24	0.47	0.27	0.32	0.57	0.27	0.45
DK0005R	ammonium	mgN/l	0.51	0.55	2.40	1.55	1.33	0.59	0.79	0.40	0.52	0.39	0.20	0.23	0.61
DK0008R	ammonium	mgN/l	0.23	0.39	1.42	0.97	0.98	0.29	0.26	0.27	0.37	0.40	0.40	0.28	0.41
EE0009R	ammonium	mgN/l	0.11	0.08	0.32	0.25	0.37	0.09	0.04	0.12	0.16	0.12	0.12	0.08	0.12
EE0011R	ammonium	mgN/l	0.02	0.51	0.89	0.79	0.53	0.04	0.24	0.30	0.03	0.15	0.46	0.21	0.27
FI0004R	ammonium	mgN/l	0.05	0.07	0.46	0.65	0.29	0.24	0.10	0.09	0.06	0.11	0.21	0.08	0.14
FI0017R	ammonium	mgN/l	0.21	0.11	0.70	0.47	0.38	0.13	0.19	0.17	0.29	0.23	0.16	0.22	0.23
FI0053R	ammonium	mgN/l	0.23	0.14	0.49	0.50	0.39	0.07	0.11	0.09	0.19	0.18	0.70	0.22	0.19
LT0015R	ammonium	mgN/l	0.80	0.54	2.35	0.68	0.83	0.69	0.52	0.28	0.24	0.20	0.54	0.19	0.42
LV0010R	ammonium	mgN/l	1.31	1.11	1.42	1.05	1.06	0.78	0.29	0.21	0.27	0.23	0.53	0.35	0.46
PL0004R	ammonium	mgN/l	0.43	0.33	0.96	0.85	0.94	0.66	0.47	0.40	0.28	0.39	1.01	0.29	0.44
SE0011R	ammonium	mgN/l	0.43	1.16	1.16	1.02	0.98	0.47	0.47	0.37	0.43	0.44	0.92	0.25	0.56
SE0012R	ammonium	mgN/l	0.24	0.28	0.82	1.43	0.54	0.17	0.34	0.88	1.31	0.35	0.31	0.12	0.53
SE0014R	ammonium	mgN/l	0.45	0.41	1.37	1.52	0.80	0.60	0.21	0.27	0.31	0.27	0.67	0.25	0.43
SE0053R	ammonium	mgN/l	0.12	0.09	0.31	-	0.56	0.47	0.13	0.17	0.17	0.21	0.50	0.12	0.23
DE0009R	nitrate	mgN/l	0.55	0.32	0.69	0.41	0.61	0.38	0.19	0.28	0.19	0.18	0.43	0.39	0.31
DK0005R	nitrate	mgN/l	0.65	0.33	1.03	0.83	0.85	0.42	0.32	0.26	0.40	0.24	0.24	0.30	0.39
DK0008R	nitrate	mgN/l	0.34	0.49	0.96	0.54	0.64	0.32	0.27	0.28	0.36	0.43	0.63	0.58	0.40
EE0009R	nitrate	mgN/l	0.33	0.29	0.40	0.41	0.26	0.16	0.07	0.12	0.17	0.20	0.33	0.25	0.20
EE0011R	nitrate	mgN/l	0.33	0.68	0.70	0.68	0.45	0.14	0.07	0.17	0.09	0.29	0.80	0.49	0.31
FI0004R	nitrate	mgN/l	0.23	0.27	0.40	0.50	0.24	0.18	0.14	0.13	0.10	0.19	0.35	0.23	0.20
FI0017R	nitrate	mgN/l	0.42	0.35	0.93	0.51	0.34	0.24	0.24	0.19	0.27	0.31	0.32	0.38	0.31
FI0053R	nitrate	mgN/l	0.30	0.26	0.53	0.43	0.31	0.11	0.13	0.08	0.14	0.17	0.71	0.29	0.20
LT0015R	nitrate	mgN/l	1.62	0.74	1.78	0.65	0.90	0.67	0.46	0.34	0.31	0.26	0.91	0.53	0.51
LV0010R	nitrate	mgN/l	1.21	1.17	1.17	0.78	0.91	0.62	0.24	0.31	0.32	0.28	0.93	0.47	0.48
PL0004R	nitrate	mgN/l	0.68	0.34	0.61	0.60	0.76	0.52	0.23	0.31	0.26	0.35	0.99	0.45	0.39
SE0011R	nitrate	mgN/l	0.61	0.90	0.69	0.61	0.54	0.30	0.30	0.30	0.36	0.35	1.02	0.41	0.44
SE0012R	nitrate	mgN/l	0.47	0.57	0.52	0.95	0.46	0.20	0.23	0.24	0.50	0.32	0.35	0.27	0.38
SE0014R	nitrate	mgN/l	0.80	0.52	0.93	0.90	0.44	0.35	0.24	0.24	0.31	0.33	0.89	0.47	0.40
SE0053R	nitrate	mgN/l	0.34	0.32	0.50	-	0.24	0.17	0.16	0.15	0.16	0.23	0.51	0.28	0.24

Table A.4 Monthly and annual mean concentrations of heavy metals in precipitation.

Site	Comp	Matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
DE0009R	cadmium	µgL	0.022	0.016	0.085	0.033	0.032	0.042	0.017	0.019	0.027	0.012	0.034	0.022	0.024
DK0005R	cadmium	µgL	0.019	0.051	0.051	0.070	0.094	0.094	0.069	0.167	0.139	0.089	0.009	0.009	0.090
DK0008R	cadmium	µgL	0.036	0.016	0.019	0.015	0.054	0.067	0.055	0.077	0.028	0.028	0.018	0.034	0.047
EE0009R	cadmium	µgL	*<DL*	*<DL*	*<DL*	*<DL*	*<DL*	*<DL*	*<DL*	*<DL*	*<DL*	*<DL*	*0.100*	*<DL*	*<DL*
EE0011R	cadmium	µgL	*0.010*	*0.010*	*0.030*	*0.040*	*0.060*	*0.010*	*0.010*	*0.070*	*0.020*	*0.020*	*2.300*	*0.040*	*0.106*
FI0017R	cadmium	µgL	0.058	0.037	0.157	0.077	0.038	-	0.058	0.025	0.027	0.026	0.027	0.027	0.034
FI0053R	cadmium	µgL	0.027	0.077	0.138	-	0.047	0.087	0.045	0.033	0.005	-	0.104	0.011	0.043
LV0010R	cadmium	µgL	*0.079*	*0.066*	*0.030*	*0.030*	*0.049*	*0.033*	*0.038*	*0.072*	*0.030*	*0.031*	*0.030*	*0.040*	*0.045*
PL0004R	cadmium	µgL	0.023	0.019	0.132	0.035	0.050	0.034	0.032	0.029	0.029	0.026	0.103	0.044	0.034
SE0005R	cadmium	µgL	0.020	0.030	0.012	0.040	0.040	0.070	0.031	0.010	0.010	0.017	0.030	0.020	0.023
SE0011R	cadmium	µgL	0.020	0.040	0.070	0.130	0.178	0.730	0.162	0.064	0.030	0.020	0.120	0.030	0.135
SE0014R	cadmium	µgL	0.030	0.020	0.048	0.100	0.191	0.047	0.020	0.090	0.098	0.020	0.066	0.020	0.062
DE0009R	lead	µgL	0.73	0.44	1.71	1.04	1.16	0.66	0.51	0.60	0.35	0.38	0.94	0.82	0.63
DK0005R	lead	µgL	12.07	7.26	7.24	4.48	6.18	4.97	4.04	5.24	4.61	0.73	2.99	8.40	5.53
DK0008R	lead	µgL	1.49	0.48	0.73	0.81	2.33	1.28	1.62	2.02	0.90	0.90	0.53	0.94	1.39
EE0009R	lead	µgL	*0.19*	*0.05*	*0.54*	*0.11*	*0.23*	*0.05*	*0.05*	*0.05*	*0.05*	*0.21*	*0.79*	*0.15*	*0.17*
EE0011R	lead	µgL	*0.13*	*0.05*	*0.20*	*0.10*	*0.05*	*0.05*	*0.20*	*0.67*	*0.05*	*0.05*	*0.20*	*1.30*	*0.42*
FI0017R	lead	µgL	1.46	1.16	3.09	0.97	1.24	0.62	1.01	0.46	0.48	0.53	0.78	0.98	0.78
FI0053R	lead	µgL	0.65	1.31	2.92	0.58	0.80	0.24	0.52	0.22	0.13	0.37	2.90	0.35	0.45
LV0010R	lead	µgL	*0.30*	*0.30*	*0.84*	*0.39*	*1.74*	*0.40*	*0.39*	*0.57*	*0.72*	*0.43*	*1.04*	*0.82*	*0.63*
PL0004R	lead	µgL	0.62	0.28	1.09	0.30	0.87	0.86	0.50	0.50	0.33	0.33	2.37	0.35	0.51
SE0005R	lead	µgL	0.12	0.49	0.19	0.41	0.43	0.76	0.45	0.17	0.06	0.07	0.12	2.59	0.33
SE0011R	lead	µgL	0.53	0.67	0.74	0.53	0.75	0.61	0.62	0.64	0.46	0.35	1.77	0.72	0.63
SE0014R	lead	µgL	0.59	0.31	0.39	0.43	0.59	0.29	0.32	0.28	0.34	0.26	0.71	0.30	0.36
DE0009R	mercury	ng/L	3	3	8	8	14	9	6	10	6	5	7	5	7
FI0017R	mercury	ng/L	7	12	-	9	5	10	19	3	1	1	3	5	5
LV0010R	mercury	ng/L	*30*	*30*	*32*	*35*	*35*	*53*	*35*	*34*	*30*	*30*	*30*	*30*	*33*
SE0005R	mercury	ng/L	5	5	17	13	6	8	9	4	4	5	5	2	6
SE0011R	mercury	ng/L	6	10	12	27	13	8	6	9	8	6	17	7	9
SE0014R	mercury	ng/L	8	9	12	16	16	9	6	9	9	5	24	6	9
DE0009R	precipitation_amount	mm'	33	34	23	22	31	85	243	177	65	40	12	71	836
DE0009R	precipitation_amount (Hg)	mm'	30	36	24	21	35	94	239	175	63	47	10	74	847
DK0005R	precipitation_amount	mm'	32	23	25	6	31	98	109	116	65	37	7	69	618
DK0008R	precipitation_amount (Hg)	mm'	51	19	13	27	38	57	94	102	60	43	8	49	560
EE0009R	precipitation_amount	mm'	47	20	21	14	37	63	145	23	113	65	49	79	675
EE0011R	precipitation_amount	mm'	76	28	14	35	48	40	127	143	60	40	25	127	761
FI0017R	precipitation_amount	mm'	49	15	6	15	43	64	51	132	139	62	32	114	722
FI0017R	precipitation_amount (Hg)	mm'	14	3	2	11	36	62	50	130	103	47	23	72	553
FI0053R	precipitation_amount	mm'	27	11	3	9	32	84	47	58	64	42	9	50	435
LV0010R	precipitation_amount	mm'	58	35	16	31	44	32	149	144	89	95	43	129	866
PL0004R	precipitation_amount	mm'	27	48	13	16	35	58	84	140	101	57	7	67	652
SE0005R	precipitation_amount	mm'	10	16	19	25	72	15	57	99	110	25	27	17	493
SE0005R	precipitation_amount (Hg)	mm'	17	1	11	22	88	20	72	105	86	33	10	70	533
SE0011R	precipitation_amount	mm'	46	22	22	17	63	61	58	143	76	66	18	56	649
SE0011R	precipitation_amount (Hg)	mm'	36	42	24	15	86	86	122	84	47	46	7	53	648
SE0014R	precipitation_amount	mm'	46	27	15	28	45	62	90	95	95	57	10	77	645
SE0014R	precipitation_amount (Hg)	mm'	30	24	10	17	60	73	93	110	104	70	6	51	645

Data in italic indicates data with poor detection limit

Table A.5 Monthly and annual deposition of ammonium and nitrate in precipitation.

Site	Comp	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Total N
DE0009R	ammonium	mg N m/2	11	16	47	21	44	60	58	88	19	15	9	23	410	
DE0009R	nitrate	mg N m/2	22	13	19	11	22	35	46	53	13	9	6	34	283	693
DE0009R	precipitation_amount	mm	39	41	28	26	35	92	248	190	71	48	15	88	919	
DK0005R	ammonium	mg N m/2	15	15	42	10	44	56	91	51	12	15	2	16	358	
DK0005R	nitrate	mg N m/2	19	9	18	5	28	39	37	34	9	9	2	20	230	589
DK0005R	precipitation_amount	mm	29	27	17	6	33	95	115	127	22	37	8	68	586	
DK0008R	ammonium	mg N m/2	6	8	20	26	37	17	24	28	22	16	4	13	220	
DK0008R	nitrate	mg N m/2	9	10	13	14	24	19	25	29	21	17	6	28	216	436
DK0008R	precipitation_amount	mm	27	20	14	26	38	59	92	102	59	39	9	48	534	
EE0009R	ammonium	mg N m/2	5	2	7	4	14	6	6	3	18	7	6	6	83	
EE0009R	nitrate	mg N m/2	16	6	8	6	9	10	10	3	19	13	16	20	135	218
EE0009R	precipitation_amount	mm	47	20	21	14	37	63	145	23	112	65	49	79	676	
EE0011R	ammonium	mg N m/2	2	14	12	27	25	2	30	43	2	6	11	27	203	
EE0011R	nitrate	mg N m/2	25	19	10	24	22	6	9	25	6	12	19	62	237	439
EE0011R	precipitation_amount	mm	76	28	14	35	48	40	127	143	60	40	24	127	763	
FI0004R	ammonium	mg N m/2	4	1	14	6	16	23	10	7	7	4	7	7	104	
FI0004R	nitrate	mg N m/2	16	3	12	5	13	17	15	10	12	8	12	19	145	249
FI0004R	precipitation_amount	mm	71	11	30	9	55	93	104	84	125	41	33	83	739	
FI0017R	ammonium	mg N m/2	12	2	7	8	16	9	10	19	46	15	7	22	167	
FI0017R	nitrate	mg N m/2	23	6	9	8	14	16	12	21	43	20	14	40	229	395
FI0017R	precipitation_amount	mm	55	17	10	16	42	65	50	113	159	65	43	103	739	
FI0053R	ammonium	mg N m/2	7	2	7	2	11	6	5	5	13	8	9	11	87	
FI0053R	nitrate	mg N m/2	9	3	8	2	9	10	6	5	9	8	9	14	93	
FI0053R	precipitation_amount	mm	32	13	14	4	29	88	47	56	66	47	13	47	457	
LT0015R	ammonium	mg N m/2	10	7	29	17	17	14	48	35	19	11	10	18	234	234
LT0015R	nitrate	mg N m/2	20	10	22	16	19	14	42	42	24	15	17	49	287	
LT0015R	precipitation_amount	mm	12	14	12	25	21	21	92	125	77	55	19	92	565	
LV0010R	ammonium	mg N m/2	76	39	23	33	47	25	44	30	24	22	23	45	397	397
LV0010R	nitrate	mg N m/2	70	41	19	25	40	19	35	44	28	26	40	60	418	
LV0010R	precipitation_amount	mm	58	35	16	31	44	32	149	144	89	95	43	129	866	
PL0004R	ammonium	mg N m/2	11	16	10	13	31	22	26	46	28	21	6	19	248	248
PL0004R	nitrate	mg N m/2	18	16	6	9	25	18	13	35	26	19	6	29	220	
PL0004R	precipitation_amount	mm	27	47	10	15	33	34	56	114	99	54	6	65	560	
SE0011R	ammonium	mg N m/2	19	29	38	22	72	44	65	49	34	35	13	19	449	449
SE0011R	nitrate	mg N m/2	27	22	23	13	40	28	42	40	28	28	14	31	353	
SE0011R	precipitation_amount	mm	43	25	33	21	74	94	138	132	79	80	14	76	809	
SE0012R	ammonium	mg N m/2	9	9	11	35	26	9	16	51	60	20	4	6	255	255
SE0012R	nitrate	mg N m/2	17	19	7	23	22	11	11	14	23	19	4	13	183	
SE0012R	precipitation_amount	mm	36	34	13	24	48	55	47	58	46	58	12	47	478	
SE0014R	ammonium	mg N m/2	8	16	36	34	44	40	24	30	35	20	10	21	318	318
SE0014R	nitrate	mg N m/2	15	20	25	20	24	24	26	27	35	25	13	38	291	
SE0014R	precipitation_amount	mm	18	39	27	22	55	67	113	111	113	74	15	81	736	
SE0053R	ammonium	mg N m/2	5	2	5	-	26	15	6	13	19	9	8	11	125	125
SE0053R	nitrate	mg N m/2	14	8	8	-	11	5	7	12	17	10	8	27	135	
SE0053R	precipitation_amount	mm	43	24	17	6	47	31	44	79	109	44	16	95	555	

Table A.6 Monthly and annual deposition of heavy metals in precipitation.

Site	Comp	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
DE0009R	cadmium	µg Cd /m2	0.7	0.6	2.0	0.7	1.0	3.6	4.1	3.4	1.8	0.5	0.4	1.6	20.2
DK0005R	cadmium	µg Cd /m2	0.6	1.2	1.3	0.4	2.9	9.2	7.4	19.3	9.0	3.3	0.1	0.6	55.4
DK0008R	cadmium	µg Cd /m2	1.8	0.3	0.2	0.4	2.1	3.8	5.1	7.9	1.7	1.2	0.1	1.7	26.3
EE0009R	cadmium	µg Cd /m2	-	-	-	-	-	-	-	-	-	-	*4.9*	-	-
EE0011R	cadmium	µg Cd /m2	*0.8*	*0.3*	*0.4*	*1.4*	*2.9*	*0.4*	*1.3*	*10.0*	*1.2*	*0.8*	*56.4*	*5.1*	*80.8*
FI0017R	cadmium	µg Cd /m2	2.8	0.6	0.9	1.2	1.6	-	2.9	3.3	3.8	1.6	0.9	3.1	24.9
FI0053R	cadmium	µg Cd /m2	0.7	0.8	0.4	-	1.5	7.3	2.1	1.9	0.3	-	0.9	0.5	18.8
LV0010R	cadmium	µg Cd /m2	*4.6*	*2.3*	*0.5*	*0.9*	*2.2*	*1.0*	*5.7*	*10.4*	*2.7*	*3.0*	*1.3*	*5.2*	*38.9*
PL0004R	cadmium	µg Cd /m2	0.6	0.9	1.8	0.6	1.7	2.0	2.7	4.1	2.9	1.5	0.7	2.9	22.3
SE0005R	cadmium	µg Cd /m2	0.2	0.5	0.2	1.0	2.9	1.1	1.8	1.0	1.1	0.4	0.8	0.3	11.3
SE0011R	cadmium	µg Cd /m2	0.9	0.9	1.6	2.3	11.3	44.8	9.4	9.2	2.3	1.3	2.2	1.7	87.8
SE0014R	cadmium	µg Cd /m2	1.4	0.6	0.7	2.8	8.6	2.9	1.8	8.6	9.4	1.2	0.7	1.5	40.0
DE0009R	lead	µg Pb /m2	24	15	39	22	36	56	124	106	23	15	11	58	529
DK0005R	lead	µg Pb /m2	390	168	181	27	194	488	439	607	298	27	22	579	3418
DK0008R	lead	µg Pb /m2	76	9	9	22	89	73	152	206	54	39	4	45	778
EE0009R	lead	µg Pb /m2	*9*	*1*	*11*	*2*	*9*	*3*	*7*	*1*	*6*	*14*	*39*	*12*	*112*
EE0011R	lead	µg Pb /m2	*10*	*1*	*3*	*3*	*2*	*2*	*25*	*96*	*3*	*2*	*5*	*165*	*317*
FI0017R	lead	µg Pb /m2	71	17	18	15	53	40	51	61	67	33	25	112	562
FI0053R	lead	µg Pb /m2	18	14	9	5	26	20	25	13	8	16	25	17	195
LV0010R	lead	µg Pb /m2	17	11	14	12	77	13	59	82	64	41	45	105	547
PL0004R	lead	µg Pb /m2	17	13	15	5	30	50	42	70	33	19	16	23	333
SE0005R	lead	µg Pb /m2	1	8	4	10	31	12	26	17	6	2	3	45	164
SE0011R	lead	µg Pb /m2	24	15	16	9	47	37	36	92	35	23	32	41	408
SE0014R	lead	µg Pb /m2	27	8	6	12	27	18	29	27	32	15	7	23	231
DE0009R	mercury	ng Hg /m2	83	107	189	179	473	866	1468	1775	393	242	68	357	6198
FI0017R	mercury	ng Hg /m2	99	38	-	95	180	617	950	390	103	47	70	333	2932
LV0010R	mercury	ng Hg /m2	*1743*	*1059*	*523*	*1097*	*1547*	*1667*	*5225*	*4948*	*2668*	*2850*	*1281*	*3877*	*28610*
SE0005R	mercury	ng Hg /m2	88	3	175	296	551	155	638	418	309	156	49	140	2978
SE0011R	mercury	ng Hg /m2	222	406	292	395	1077	643	718	718	392	291	120	350	5627
SE0014R	mercury	ng Hg /m2	252	210	118	271	925	651	559	1038	905	379	130	295	5730

Data in italic indicates data with poor detection limit