

	x (km)	y (km)	dist (km)	max 1-hr NOx (ug/m3)	max 1-hr NO2 (ug/m3)
CB0221	0	-0.1	0.100	1124.52	843.39
CB0242	0.1	-0.1	0.141	1006.8	755.10
CB0220	0	0.1	0.100	939.42	704.57
CB0241	0.1	0	0.100	927.8	695.85
CB0240	0.1	0.1	0.141	891.69	668.77
CB0201	-0.1	-0.1	0.141	872.57	654.43
CB0222	0	-0.2	0.200	868.22	651.17
CB0199	-0.1	0.1	0.141	834.32	625.74
CB0262	0.2	0	0.200	785.87	589.40
CB0202	-0.1	-0.2	0.224	769.45	577.09
CB0179	-0.2	0	0.200	757.75	568.31
CB0243	0.1	-0.2	0.224	752.91	564.68
CB0263	0.2	-0.1	0.224	740.89	555.67
CB0178	-0.2	0.1	0.224	738.62	553.97
CB0198	-0.1	0.2	0.224	719.17	539.38
CB0261	0.2	0.1	0.224	716.47	537.35
CB0219	0	0.2	0.200	712.12	534.09
CB0200	-0.1	0	0.100	710.69	533.02
CB0180	-0.2	-0.1	0.224	695.52	521.64
CB0239	0.1	0.2	0.224	629.34	472.01
CB0264	0.2	-0.2	0.283	628.45	471.34
CB0260	0.2	0.2	0.283	620.19	465.14
CB0181	-0.2	-0.2	0.283	618.28	463.71
CB0177	-0.2	0.2	0.283	612.98	459.74
CB0283	0.3	0	0.300	608.6	456.45
CB0158	-0.3	0	0.300	588.83	441.62
CB0223	0	-0.3	0.300	588.79	441.59
CB0203	-0.1	-0.3	0.316	574.39	430.79
CB0284	0.3	-0.1	0.316	568.09	426.07
CB0218	0	0.3	0.300	564.83	423.62
CB0157	-0.3	0.1	0.316	563.78	422.84
CB0238	0.1	0.3	0.316	561.97	421.48
CB0282	0.3	0.1	0.316	560.81	420.61
CB0244	0.1	-0.3	0.316	560.07	420.05
CB0159	-0.3	-0.1	0.316	558.35	418.76
CB0197	-0.1	0.3	0.316	546.34	409.76
CB0265	0.2	-0.3	0.361	505.74	379.31
CB0285	0.3	-0.2	0.361	501.82	376.37
CB0281	0.3	0.2	0.361	501.55	376.16
CB0156	-0.3	0.2	0.361	498.21	373.66
CB0182	-0.2	-0.3	0.361	495.98	371.99
CB0160	-0.3	-0.2	0.361	491.29	368.47
CB0259	0.2	0.3	0.361	473.56	355.17
CB0176	-0.2	0.3	0.361	468.44	351.33
CB0304	0.4	0	0.400	458.36	343.77
CB0237	0.1	0.4	0.412	449.42	337.07

CB0224	0	-0.4	0.400	448.55	336.41
CB0204	-0.1	-0.4	0.412	448.18	336.14
CB0196	-0.1	0.4	0.412	446.29	334.72
CB0217	0	0.4	0.400	445.26	333.95
CB0245	0.1	-0.4	0.412	443.99	332.99
CB0136	-0.4	0.1	0.412	441.96	331.47
CB0137	-0.4	0	0.400	441.06	330.80
CB0303	0.4	0.1	0.412	440.66	330.50
CB0138	-0.4	-0.1	0.412	439.01	329.26
CB0286	0.3	-0.3	0.424	437.05	327.79
CB0305	0.4	-0.1	0.412	435.82	326.87
CB0161	-0.3	-0.3	0.424	435.17	326.38
CB0155	-0.3	0.3	0.424	430.71	323.03
CB0280	0.3	0.3	0.424	429.52	322.14
CB0258	0.2	0.4	0.447	419.79	314.84
CB0135	-0.4	0.2	0.447	418.24	313.68
CB0175	-0.2	0.4	0.447	417.86	313.40
CB0183	-0.2	-0.4	0.447	410.03	307.52
CB0302	0.4	0.2	0.447	409	306.75
CB0306	0.4	-0.2	0.447	406.94	305.21
CB0139	-0.4	-0.2	0.447	404.33	303.25
CB0266	0.2	-0.4	0.447	397.75	298.31
CB0162	-0.3	-0.4	0.500	376.19	282.14
CB0307	0.4	-0.3	0.500	370.69	278.02
CB0287	0.3	-0.4	0.500	369.6	277.20
CB0326	0.5	-0.1	0.510	368.79	276.59
CB0236	0.1	0.5	0.510	368.05	276.04
CB0279	0.3	0.4	0.500	367.39	275.54
CB0324	0.5	0.1	0.510	367.39	275.54
CB0117	-0.5	-0.1	0.510	364.48	273.36
CB0205	-0.1	-0.5	0.510	364.47	273.35
CB0116	-0.5	0	0.500	363.51	272.63
CB0225	0	-0.5	0.500	362.43	271.82
CB0134	-0.4	0.3	0.500	361.51	271.13
CB0246	0.1	-0.5	0.510	361.15	270.86
CB0325	0.5	0	0.500	360.35	270.26
CB0216	0	0.5	0.500	359.86	269.90
CB0154	-0.3	0.4	0.500	359.1	269.33
CB0140	-0.4	-0.3	0.500	358.36	268.77
CB0115	-0.5	0.1	0.510	357.95	268.46
CB0327	0.5	-0.2	0.539	351.28	263.46
CB0301	0.4	0.3	0.500	349.61	262.21
CB0195	-0.1	0.5	0.510	348.34	261.26
CB0267	0.2	-0.5	0.539	347.99	260.99
CB0184	-0.2	-0.5	0.539	347.68	260.76
CB0118	-0.5	-0.2	0.539	344.71	258.53
CB0257	0.2	0.5	0.539	344.64	258.48

CB0323	0.5	0.2	0.539	344.37	258.28
CB0133	-0.4	0.4	0.566	336.26	252.20
CB0174	-0.2	0.5	0.539	334.66	251.00
CB0300	0.4	0.4	0.566	327.77	245.83
CB0114	-0.5	0.2	0.539	327.45	245.59
CB0163	-0.3	-0.5	0.583	326.27	244.70
CB0141	-0.4	-0.4	0.566	326.13	244.60
CB0113	-0.5	0.3	0.583	325.01	243.76
CB0308	0.4	-0.4	0.566	324.71	243.53
CB0153	-0.3	0.5	0.583	322.6	241.95
CB0322	0.5	0.3	0.583	321.75	241.31
CB0288	0.3	-0.5	0.583	320.74	240.56
CB0095	-0.6	0	0.600	320.6	240.45
CB0215	0	0.6	0.600	319.64	239.73
CB0278	0.3	0.5	0.583	315.93	236.95
CB0094	-0.6	0.1	0.608	313.46	235.10
CB0226	0	-0.6	0.600	310.89	233.17
CB0119	-0.5	-0.3	0.583	310.55	232.91
CB0096	-0.6	-0.1	0.608	310.37	232.78
CB0206	-0.1	-0.6	0.608	309.85	232.39
CB0194	-0.1	0.6	0.608	309.72	232.29
CB0347	0.6	-0.1	0.608	309.4	232.05
CB0345	0.6	0.1	0.608	308.74	231.56
CB0247	0.1	-0.6	0.608	308.71	231.53
CB0235	0.1	0.6	0.608	307.7	230.78
CB0321	0.5	0.4	0.640	302.76	227.07
CB0112	-0.5	0.4	0.640	301.77	226.33
CB0093	-0.6	0.2	0.632	300.54	225.41
CB0132	-0.4	0.5	0.640	300.19	225.14
CB0268	0.2	-0.6	0.632	299.91	224.93
CB0344	0.6	0.2	0.632	298.35	223.76
CB0299	0.4	0.5	0.640	297.71	223.28
CB0348	0.6	-0.2	0.632	297.59	223.19
CB0329	0.5	-0.4	0.640	297.53	223.15
CB0328	0.5	-0.3	0.583	297.49	223.12
CB0142	-0.4	-0.5	0.640	297.2	222.90
CB0256	0.2	0.6	0.632	296.26	222.20
CB0092	-0.6	0.3	0.671	295.68	221.76
CB0173	-0.2	0.6	0.632	295.27	221.45
CB0343	0.6	0.3	0.671	294.94	221.21
CB0097	-0.6	-0.2	0.632	293.65	220.24
CB0346	0.6	0	0.600	292.59	219.44
CB0309	0.4	-0.5	0.640	292.05	219.04
CB0277	0.3	0.6	0.671	291.17	218.38
CB0152	-0.3	0.6	0.671	290.83	218.12
CB0185	-0.2	-0.6	0.632	289.58	217.19
CB0164	-0.3	-0.6	0.671	289.23	216.92

CB0120	-0.5	-0.4	0.640	289.2	216.90
CB0074	-0.7	0	0.700	287.73	215.80
CB0255	0.2	0.7	0.728	283.43	212.57
CB0214	0	0.7	0.700	283.03	212.27
CB0289	0.3	-0.6	0.671	282.22	211.67
CB0227	0	-0.7	0.700	278.49	208.87
CB0349	0.6	-0.3	0.671	278.42	208.82
CB0073	-0.7	0.1	0.707	277.85	208.39
CB0076	-0.7	-0.2	0.728	277.75	208.31
CB0320	0.5	0.5	0.707	277.34	208.01
CB0342	0.6	0.4	0.721	275.41	206.56
CB0234	0.1	0.7	0.707	273.84	205.38
CB0098	-0.6	-0.3	0.671	273.6	205.20
CB0111	-0.5	0.5	0.707	271.51	203.63
CB0091	-0.6	0.4	0.721	271.45	203.59
CB0193	-0.1	0.7	0.707	271.01	203.26
CB0248	0.1	-0.7	0.707	270.11	202.58
CB0368	0.7	-0.1	0.707	270.03	202.52
CB0298	0.4	0.6	0.721	268.95	201.71
CB0121	-0.5	-0.5	0.707	268.11	201.08
CB0075	-0.7	-0.1	0.707	267.65	200.74
CB0365	0.7	0.2	0.728	266.49	199.87
CB0131	-0.4	0.6	0.721	265.46	199.10
CB0143	-0.4	-0.6	0.721	265.45	199.09
CB0207	-0.1	-0.7	0.707	265.4	199.05
CB0366	0.7	0.1	0.707	265.37	199.03
CB0172	-0.2	0.7	0.728	264.15	198.11
CB0269	0.2	-0.7	0.728	263.37	197.53
CB0186	-0.2	-0.7	0.728	262.92	197.19
CB0072	-0.7	0.2	0.728	262.47	196.85
CB0151	-0.3	0.7	0.762	261.6	196.20
CB0099	-0.6	-0.4	0.721	261.12	195.84
CB0276	0.3	0.7	0.762	260.9	195.68
CB0053	-0.8	0	0.800	260.74	195.56
CB0330	0.5	-0.5	0.707	260.45	195.34
CB0341	0.6	0.5	0.781	257.24	192.93
CB0319	0.5	0.6	0.781	256.85	192.64
CB0367	0.7	0	0.700	256.78	192.59
CB0077	-0.7	-0.3	0.762	256.74	192.56
CB0254	0.2	0.8	0.825	256.4	192.30
CB0369	0.7	-0.2	0.728	256.36	192.27
CB0364	0.7	0.3	0.762	255.76	191.82
CB0165	-0.3	-0.7	0.762	255.27	191.45
CB0310	0.4	-0.6	0.721	255.19	191.39
CB0389	0.8	-0.1	0.806	253.21	189.91
CB0130	-0.4	0.7	0.806	252.36	189.27
CB0144	-0.4	-0.7	0.806	251.42	188.57

CB0213	0	0.8	0.800	251.21	188.41
CB0290	0.3	-0.7	0.762	251.09	188.32
CB0071	-0.7	0.3	0.762	251.01	188.26
CB0363	0.7	0.4	0.806	250.57	187.93
CB0297	0.4	0.7	0.806	250.38	187.79
CB0228	0	-0.8	0.800	249.32	186.99
CB0370	0.7	-0.3	0.762	249.12	186.84
CB0051	-0.8	0.2	0.825	248.42	186.32
CB0110	-0.5	0.6	0.781	247.84	185.88
CB0350	0.6	-0.4	0.721	247.22	185.42
CB0090	-0.6	0.5	0.781	246.99	185.24
CB0052	-0.8	0.1	0.806	246.96	185.22
CB0100	-0.6	-0.5	0.781	246.46	184.85
CB0351	0.6	-0.5	0.781	245.76	184.32
CB0208	-0.1	-0.8	0.806	245.19	183.89
CB0371	0.7	-0.4	0.806	244.83	183.62
CB0249	0.1	-0.8	0.806	244.51	183.38
CB0122	-0.5	-0.6	0.781	244.14	183.11
CB0171	-0.2	0.8	0.825	244.13	183.10
CB0054	-0.8	-0.1	0.806	243.79	182.84
CB0187	-0.2	-0.8	0.825	242.86	182.15
CB0055	-0.8	-0.2	0.825	242.69	182.02
CB0109	-0.5	0.7	0.860	242.13	181.60
CB0387	0.8	0.1	0.806	241.23	180.92
CB0233	0.1	0.8	0.806	241.1	180.83
CB0311	0.4	-0.7	0.806	239.86	179.90
CB0340	0.6	0.6	0.849	239.37	179.53
CB0391	0.8	-0.3	0.854	238.53	178.90
CB0078	-0.7	-0.4	0.806	238.48	178.86
CB0129	-0.4	0.8	0.894	237.71	178.28
CB0192	-0.1	0.8	0.806	236.94	177.71
CB0032	-0.9	0	0.900	236.28	177.21
CB0331	0.5	-0.6	0.781	236.27	177.20
CB0089	-0.6	0.6	0.849	235.18	176.39
CB0070	-0.7	0.4	0.806	234.1	175.58
CB0386	0.8	0.2	0.825	233.78	175.34
CB0270	0.2	-0.8	0.825	233.51	175.13
CB0296	0.4	0.8	0.894	233.48	175.11
CB0275	0.3	0.8	0.854	232.33	174.25
CB0372	0.7	-0.5	0.860	232.17	174.13
CB0056	-0.8	-0.3	0.854	231.79	173.84
CB0049	-0.8	0.4	0.894	231.07	173.30
CB0079	-0.7	-0.5	0.860	230.27	172.70
CB0069	-0.7	0.5	0.860	230.14	172.61
CB0101	-0.6	-0.6	0.849	230.1	172.58
CB0388	0.8	0	0.800	229.57	172.18
CB0385	0.8	0.3	0.854	228.12	171.09

CB0339	0.6	0.7	0.922	228	171.00
CB0057	-0.8	-0.4	0.894	227.97	170.98
CB0410	0.9	-0.1	0.906	227.31	170.48
CB0145	-0.4	-0.8	0.894	227.26	170.45
CB0166	-0.3	-0.8	0.854	226.57	169.93
CB0318	0.5	0.7	0.860	225.95	169.46
CB0170	-0.2	0.9	0.922	225.89	169.42
CB0384	0.8	0.4	0.894	225.18	168.89
CB0352	0.6	-0.6	0.849	224.65	168.49
CB0108	-0.5	0.8	0.943	224.35	168.26
CB0253	0.2	0.9	0.922	224.12	168.09
CB0362	0.7	0.5	0.860	224.11	168.08
CB0212	0	0.9	0.900	224.04	168.03
CB0033	-0.9	-0.1	0.906	223.96	167.97
CB0229	0	-0.9	0.900	223.85	167.89
CB0191	-0.1	0.9	0.906	223.37	167.53
CB0383	0.8	0.5	0.943	222.8	167.10
CB0123	-0.5	-0.7	0.860	222.71	167.03
CB0209	-0.1	-0.9	0.906	222.47	166.85
CB0088	-0.6	0.7	0.922	222.25	166.69
CB0390	0.8	-0.2	0.825	222.2	166.65
CB0361	0.7	0.6	0.922	222.17	166.63
CB0031	-0.9	0.1	0.906	221.81	166.36
CB0035	-0.9	-0.3	0.949	221.12	165.84
CB0332	0.5	-0.7	0.860	220.95	165.71
CB0373	0.7	-0.6	0.922	220.67	165.50
CB0050	-0.8	0.3	0.854	220.1	165.08
CB0150	-0.3	0.8	0.854	219.68	164.76
CB0058	-0.8	-0.5	0.943	219.61	164.71
CB0149	-0.3	0.9	0.949	219.5	164.63
CB0034	-0.9	-0.2	0.922	219.16	164.37
CB0080	-0.7	-0.6	0.922	218.47	163.85
CB0011	-1	0	1.000	218.21	163.66
CB0312	0.4	-0.8	0.894	217.42	163.07
CB0291	0.3	-0.8	0.854	217	162.75
CB0232	0.1	0.9	0.906	216.96	162.72
CB0407	0.9	0.2	0.922	216.44	162.33
CB0059	-0.8	-0.6	1.000	215.92	161.94
CB0406	0.9	0.3	0.949	215.81	161.86
CB0087	-0.6	0.8	1.000	215.69	161.77
CB0392	0.8	-0.4	0.894	214.93	161.20
CB0353	0.6	-0.7	0.922	214.89	161.17
CB0030	-0.9	0.2	0.922	214.69	161.02
CB0250	0.1	-0.9	0.906	214.05	160.54
CB0317	0.5	0.8	0.943	213.96	160.47
CB0409	0.9	0	0.900	213.85	160.39
CB0102	-0.6	-0.7	0.922	213.56	160.17

CB0128	-0.4	0.9	0.985	211.81	158.86
CB0408	0.9	0.1	0.906	211.58	158.69
CB0271	0.2	-0.9	0.922	210.84	158.13
CB0067	-0.7	0.7	0.990	210.11	157.58
CB0167	-0.3	-0.9	0.949	209.93	157.45
CB0274	0.3	0.9	0.949	209.8	157.35
CB0333	0.5	-0.8	0.943	209.57	157.18
CB0188	-0.2	-0.9	0.922	209.54	157.16
CB0412	0.9	-0.3	0.949	209.09	156.82
CB0028	-0.9	0.4	0.985	208.86	156.65
CB0360	0.7	0.7	0.990	208.31	156.23
CB0295	0.4	0.9	0.985	207.99	155.99
CB0124	-0.5	-0.8	0.943	207.83	155.87
CB0405	0.9	0.4	0.985	207.52	155.64
CB0210	-0.1	-1	1.005	206.04	154.53
CB0014	-1	-0.3	1.044	205.84	154.38
CB0036	-0.9	-0.4	0.985	205.84	154.38
CB0029	-0.9	0.3	0.949	205.34	154.01
CB0148	-0.3	1	1.044	205.2	153.90
CB0316	0.5	0.9	1.030	204.97	153.73
CB0338	0.6	0.8	1.000	204.47	153.35
CB0107	-0.5	0.9	1.030	204.21	153.16
CB0411	0.9	-0.2	0.922	203.85	152.89
CB0292	0.3	-0.9	0.949	203.67	152.75
CB0404	0.9	0.5	1.030	203.14	152.36
CB0190	-0.1	1	1.005	202.93	152.20
CB0273	0.3	1	1.044	202.69	152.02
CB0230	0	-1	1.000	202.19	151.64
CB0048	-0.8	0.5	0.943	201.81	151.36
CB0010	-1	0.1	1.005	201.58	151.19
CB0169	-0.2	1	1.020	201.46	151.10
CB0012	-1	-0.1	1.005	201.26	150.95
CB0403	0.9	0.6	1.082	201.24	150.93
CB0037	-0.9	-0.5	1.030	201.07	150.80
CB0359	0.7	0.8	1.063	201.03	150.77
CB0146	-0.4	-0.9	0.985	201.01	150.76
CB0211	0	1	1.000	200.97	150.73
CB0427	1	0.3	1.044	200.41	150.31
CB0060	-0.8	-0.7	1.063	200.33	150.25
CB0106	-0.5	1	1.118	200.32	150.24
CB0081	-0.7	-0.7	0.990	200.19	150.14
CB0047	-0.8	0.6	1.000	199.8	149.85
CB0432	1	-0.2	1.020	199.52	149.64
CB0231	0.1	1	1.005	199.36	149.52
CB0313	0.4	-0.9	0.985	199.34	149.51
CB0414	0.9	-0.5	1.030	198.98	149.24
CB0431	1	-0.1	1.005	198.96	149.22

CB0382	0.8	0.6	1.000	198.73	149.05
CB0430	1	0	1.000	198.73	149.05
CB0013	-1	-0.2	1.020	197.77	148.33
CB0394	0.8	-0.6	1.000	197.36	148.02
CB0009	-1	0.2	1.020	197.12	147.84
CB0103	-0.6	-0.8	1.000	196.5	147.38
CB0066	-0.7	0.8	1.063	196.32	147.24
CB0068	-0.7	0.6	0.922	196.2	147.15
CB0433	1	-0.3	1.044	196.13	147.10
CB0429	1	0.1	1.005	195.72	146.79
CB0027	-0.9	0.5	1.030	195.71	146.78
CB0252	0.2	1	1.020	195.51	146.63
CB0374	0.7	-0.7	0.990	195.09	146.32
CB0125	-0.5	-0.9	1.030	194.82	146.12
CB0426	1	0.4	1.077	194.46	145.85
CB0393	0.8	-0.5	0.943	194.25	145.69
CB0251	0.1	-1	1.005	193.67	145.25
CB0038	-0.9	-0.6	1.082	193.52	145.14
CB0434	1	-0.4	1.077	193.52	145.14
CB0413	0.9	-0.4	0.985	193.38	145.04
CB0082	-0.7	-0.8	1.063	193.11	144.83
CB0294	0.4	1	1.077	193.07	144.80
CB0026	-0.9	0.6	1.082	192.57	144.43
CB0147	-0.4	-1	1.077	192.49	144.37
CB0395	0.8	-0.7	1.063	192.15	144.11
CB0168	-0.3	-1	1.044	191.73	143.80
CB0381	0.8	0.7	1.063	190.94	143.21
CB0424	1	0.6	1.166	190.79	143.09
CB0189	-0.2	-1	1.020	190.75	143.06
CB0039	-0.9	-0.7	1.140	190.69	143.02
CB0016	-1	-0.5	1.118	190.1	142.58
CB0375	0.7	-0.8	1.063	189.31	141.98
CB0315	0.5	1	1.118	189	141.75
CB0380	0.8	0.8	1.131	188.32	141.24
CB0086	-0.6	0.9	1.082	187.87	140.90
CB0354	0.6	-0.8	1.000	187.76	140.82
CB0065	-0.7	0.9	1.140	187.63	140.72
CB0045	-0.8	0.8	1.131	187.62	140.72
CB0272	0.2	-1	1.020	186.91	140.18
CB0104	-0.6	-0.9	1.082	185.92	139.44
CB0337	0.6	0.9	1.082	185.63	139.22
CB0018	-1	-0.7	1.221	185.5	139.13
CB0428	1	0.2	1.020	185.25	138.94
CB0006	-1	0.5	1.118	184.73	138.55
CB0085	-0.6	1	1.166	184.08	138.06
CB0008	-1	0.3	1.044	183.92	137.94
CB0402	0.9	0.7	1.140	183.64	137.73

CB0425	1	0.5	1.118	183.45	137.59
CB0046	-0.8	0.7	1.063	183.28	137.46
CB0334	0.5	-0.9	1.030	183.09	137.32
CB0007	-1	0.4	1.077	183.08	137.31
CB0436	1	-0.6	1.166	182.93	137.20
CB0015	-1	-0.4	1.077	182.66	137.00
CB0336	0.6	1	1.166	182.63	136.97
CB0126	-0.5	-1	1.118	181.98	136.49
CB0040	-0.9	-0.8	1.204	181.5	136.13
CB0017	-1	-0.6	1.166	181.47	136.10
CB0127	-0.4	1	1.077	181.05	135.79
CB0314	0.4	-1	1.077	180.6	135.45
CB0335	0.5	-1	1.118	179.6	134.70
CB0061	-0.8	-0.8	1.131	179.15	134.36
CB0293	0.3	-1	1.044	178.94	134.21
CB0435	1	-0.5	1.118	178.83	134.12
CB0423	1	0.7	1.221	178.6	133.95
CB0357	0.7	1	1.221	178.1	133.58
CB0083	-0.7	-0.9	1.140	177.59	133.19
CB0379	0.8	0.9	1.204	177.58	133.19
CB0358	0.7	0.9	1.140	177.52	133.14
CB0416	0.9	-0.7	1.140	177.24	132.93
CB0105	-0.6	-1	1.166	176.08	132.06
CB0355	0.6	-0.9	1.082	175.42	131.57
CB0415	0.9	-0.6	1.082	175.25	131.44
CB0397	0.8	-0.9	1.204	174.66	131.00
CB0064	-0.7	1	1.221	174.2	130.65
CB0084	-0.7	-1	1.221	174.1	130.58
CB0024	-0.9	0.8	1.204	173.72	130.29
CB0376	0.7	-0.9	1.140	173.45	130.09
CB0005	-1	0.6	1.166	173.34	130.01
CB0401	0.9	0.8	1.204	173.22	129.92
CB0400	0.9	0.9	1.273	172.69	129.52
CB0025	-0.9	0.7	1.140	172.43	129.32
CB0062	-0.8	-0.9	1.204	171.88	128.91
CB0356	0.6	-1	1.166	171.77	128.83
CB0437	1	-0.7	1.221	171.54	128.66
CB0004	-1	0.7	1.221	171.14	128.36
CB0044	-0.8	0.9	1.204	170.99	128.24
CB0023	-0.9	0.9	1.273	170.79	128.09
CB0396	0.8	-0.8	1.131	170.39	127.79
CB0043	-0.8	1	1.281	170.23	127.67
CB0417	0.9	-0.8	1.204	169.78	127.34
CB0063	-0.8	-1	1.281	169.5	127.13
CB0020	-1	-0.9	1.345	168.94	126.71
CB0041	-0.9	-0.9	1.273	168.94	126.71
CB0422	1	0.8	1.281	168.84	126.63

CB0398	0.8	-1	1.281	168.41	126.31
CB0019	-1	-0.8	1.281	168.27	126.20
CB0419	0.9	-1	1.345	166.08	124.56
CB0003	-1	0.8	1.281	164.6	123.45
CB0399	0.9	1	1.345	164.53	123.40
CB0378	0.8	1	1.281	164.19	123.14
CB0438	1	-0.8	1.281	163.81	122.86
CB0002	-1	0.9	1.345	162.84	122.13
CB0042	-0.9	-1	1.345	162.68	122.01
CB0001	-1	1	1.414	161.72	121.29
CB0421	1	0.9	1.345	160.62	120.47
CB0021	-1	-1	1.414	158.69	119.02
CB0420	1	1	1.414	158.48	118.86
CB0022	-0.9	1	1.345	156.02	117.02
CB0439	1	-0.9	1.345	155	116.25
CB0377	0.7	-1	1.221	154.77	116.08
CB0418	0.9	-0.9	1.273	150.76	113.07
CB0440	1	-1	1.414	143.9	107.93

Maximum distance of grid 1.414 km

Distance to compliance undetermined

ARM used to convert NOx to NO2

Receptor grid based on 100-m spacing out to 1 km east, west, north and south of vessel

	x (km)	y (km)	dist (km)	max 1-hr NOx (ug/m3)	max 1-hr NO2 (ug/m3)
CB0221	0	-0.2	0.200	868.22	651.17
CB0241	0.2	0	0.200	785.87	589.40
CB0200	-0.2	0	0.200	757.75	568.31
CB0220	0	0.2	0.200	712.12	534.09
CB0242	0.2	-0.2	0.283	628.45	471.34
CB0240	0.2	0.2	0.283	620.19	465.14
CB0201	-0.2	-0.2	0.283	618.28	463.71
CB0199	-0.2	0.2	0.283	612.98	459.74
CB0262	0.4	0	0.400	458.36	343.77
CB0222	0	-0.4	0.400	448.55	336.41
CB0219	0	0.4	0.400	445.26	333.95
CB0179	-0.4	0	0.400	441.06	330.80
CB0239	0.2	0.4	0.447	419.79	314.84
CB0178	-0.4	0.2	0.447	418.24	313.68
CB0198	-0.2	0.4	0.447	417.86	313.40
CB0202	-0.2	-0.4	0.447	410.03	307.52
CB0261	0.4	0.2	0.447	409	306.75
CB0263	0.4	-0.2	0.447	406.94	305.21
CB0180	-0.4	-0.2	0.447	404.33	303.25
CB0243	0.2	-0.4	0.447	397.75	298.31
CB0177	-0.4	0.4	0.566	336.26	252.20
CB0260	0.4	0.4	0.566	327.77	245.83
CB0181	-0.4	-0.4	0.566	326.13	244.60
CB0264	0.4	-0.4	0.566	324.71	243.53
CB0158	-0.6	0	0.600	320.6	240.45
CB0218	0	0.6	0.600	319.64	239.73
CB0223	0	-0.6	0.600	310.89	233.17
CB0157	-0.6	0.2	0.632	300.54	225.41
CB0244	0.2	-0.6	0.632	299.91	224.93
CB0282	0.6	0.2	0.632	298.35	223.76
CB0284	0.6	-0.2	0.632	297.59	223.19
CB0238	0.2	0.6	0.632	296.26	222.20
CB0197	-0.2	0.6	0.632	295.27	221.45
CB0159	-0.6	-0.2	0.632	293.65	220.24
CB0283	0.6	0	0.600	292.59	219.44
CB0203	-0.2	-0.6	0.632	289.58	217.19
CB0281	0.6	0.4	0.721	275.41	206.56
CB0156	-0.6	0.4	0.721	271.45	203.59
CB0259	0.4	0.6	0.721	268.95	201.71
CB0176	-0.4	0.6	0.721	265.46	199.10
CB0182	-0.4	-0.6	0.721	265.45	199.09
CB0160	-0.6	-0.4	0.721	261.12	195.84
CB0137	-0.8	0	0.800	260.74	195.56
CB0237	0.2	0.8	0.825	256.4	192.30
CB0265	0.4	-0.6	0.721	255.19	191.39
CB0217	0	0.8	0.800	251.21	188.41

CB0224	0	-0.8	0.800	249.32	186.99
CB0136	-0.8	0.2	0.825	248.42	186.32
CB0285	0.6	-0.4	0.721	247.22	185.42
CB0196	-0.2	0.8	0.825	244.13	183.10
CB0204	-0.2	-0.8	0.825	242.86	182.15
CB0138	-0.8	-0.2	0.825	242.69	182.02
CB0280	0.6	0.6	0.849	239.37	179.53
CB0175	-0.4	0.8	0.894	237.71	178.28
CB0155	-0.6	0.6	0.849	235.18	176.39
CB0303	0.8	0.2	0.825	233.78	175.34
CB0245	0.2	-0.8	0.825	233.51	175.13
CB0258	0.4	0.8	0.894	233.48	175.11
CB0135	-0.8	0.4	0.894	231.07	173.30
CB0161	-0.6	-0.6	0.849	230.1	172.58
CB0304	0.8	0	0.800	229.57	172.18
CB0139	-0.8	-0.4	0.894	227.97	170.98
CB0183	-0.4	-0.8	0.894	227.26	170.45
CB0302	0.8	0.4	0.894	225.18	168.89
CB0286	0.6	-0.6	0.849	224.65	168.49
CB0305	0.8	-0.2	0.825	222.2	166.65
CB0116	-1	0	1.000	218.21	163.66
CB0266	0.4	-0.8	0.894	217.42	163.07
CB0140	-0.8	-0.6	1.000	215.92	161.94
CB0154	-0.6	0.8	1.000	215.69	161.77
CB0306	0.8	-0.4	0.894	214.93	161.20
CB0279	0.6	0.8	1.000	204.47	153.35
CB0225	0	-1	1.000	202.19	151.64
CB0195	-0.2	1	1.020	201.46	151.10
CB0216	0	1	1.000	200.97	150.73
CB0134	-0.8	0.6	1.000	199.8	149.85
CB0326	1	-0.2	1.020	199.52	149.64
CB0301	0.8	0.6	1.000	198.73	149.05
CB0325	1	0	1.000	198.73	149.05
CB0117	-1	-0.2	1.020	197.77	148.33
CB0307	0.8	-0.6	1.000	197.36	148.02
CB0115	-1	0.2	1.020	197.12	147.84
CB0162	-0.6	-0.8	1.000	196.5	147.38
CB0236	0.2	1	1.020	195.51	146.63
CB0323	1	0.4	1.077	194.46	145.85
CB0327	1	-0.4	1.077	193.52	145.14
CB0257	0.4	1	1.077	193.07	144.80
CB0184	-0.4	-1	1.077	192.49	144.37
CB0322	1	0.6	1.166	190.79	143.09
CB0205	-0.2	-1	1.020	190.75	143.06
CB0095	-1.2	0	1.200	190.47	142.85
CB0300	0.8	0.8	1.131	188.32	141.24
CB0287	0.6	-0.8	1.000	187.76	140.82

CB0133	-0.8	0.8	1.131	187.62	140.72
CB0246	0.2	-1	1.020	186.91	140.18
CB0324	1	0.2	1.020	185.25	138.94
CB0153	-0.6	1	1.166	184.08	138.06
CB0114	-1	0.4	1.077	183.08	137.31
CB0328	1	-0.6	1.166	182.93	137.20
CB0118	-1	-0.4	1.077	182.66	137.00
CB0278	0.6	1	1.166	182.63	136.97
CB0119	-1	-0.6	1.166	181.47	136.10
CB0174	-0.4	1	1.077	181.05	135.79
CB0267	0.4	-1	1.077	180.6	135.45
CB0141	-0.8	-0.8	1.131	179.15	134.36
CB0163	-0.6	-1	1.166	176.08	132.06
CB0346	1.2	0	1.200	175.49	131.62
CB0094	-1.2	0.2	1.217	174.81	131.11
CB0194	-0.2	1.2	1.217	174.32	130.74
CB0113	-1	0.6	1.166	173.34	130.01
CB0226	0	-1.2	1.200	173.11	129.83
CB0345	1.2	0.2	1.217	173.01	129.76
CB0215	0	1.2	1.200	172.42	129.32
CB0173	-0.4	1.2	1.265	172.3	129.23
CB0288	0.6	-1	1.166	171.77	128.83
CB0235	0.2	1.2	1.217	170.95	128.21
CB0096	-1.2	-0.2	1.217	170.66	128.00
CB0268	0.4	-1.2	1.265	170.52	127.89
CB0308	0.8	-0.8	1.131	170.39	127.79
CB0132	-0.8	1	1.281	170.23	127.67
CB0093	-1.2	0.4	1.265	170.21	127.66
CB0152	-0.6	1.2	1.342	169.92	127.44
CB0348	1.2	-0.4	1.265	169.86	127.40
CB0142	-0.8	-1	1.281	169.5	127.13
CB0321	1	0.8	1.281	168.84	126.63
CB0309	0.8	-1	1.281	168.41	126.31
CB0120	-1	-0.8	1.281	168.27	126.20
CB0185	-0.4	-1.2	1.265	167.93	125.95
CB0097	-1.2	-0.4	1.265	167.55	125.66
CB0347	1.2	-0.2	1.217	167.53	125.65
CB0344	1.2	0.4	1.265	167.36	125.52
CB0074	-1.4	0	1.400	166.48	124.86
CB0343	1.2	0.6	1.342	165.79	124.34
CB0247	0.2	-1.2	1.217	165.64	124.23
CB0289	0.6	-1.2	1.342	165.51	124.13
CB0098	-1.2	-0.6	1.342	165.45	124.09
CB0349	1.2	-0.6	1.342	165.34	124.01
CB0112	-1	0.8	1.281	164.6	123.45
CB0206	-0.2	-1.2	1.217	164.51	123.38
CB0092	-1.2	0.6	1.342	164.19	123.14

CB0299	0.8	1	1.281	164.19	123.14
CB0329	1	-0.8	1.281	163.81	122.86
CB0277	0.6	1.2	1.342	163.33	122.50
CB0256	0.4	1.2	1.265	162.07	121.55
CB0368	1.4	-0.2	1.414	161.73	121.30
CB0111	-1	1	1.414	161.72	121.29
CB0227	0	-1.4	1.400	161.6	121.20
CB0367	1.4	0	1.400	161.6	121.20
CB0131	-0.8	1.2	1.442	159.89	119.92
CB0193	-0.2	1.4	1.414	159.7	119.78
CB0099	-1.2	-0.8	1.442	159.56	119.67
CB0075	-1.4	-0.2	1.414	159.55	119.66
CB0298	0.8	1.2	1.442	159.49	119.62
CB0073	-1.4	0.2	1.414	158.87	119.15
CB0164	-0.6	-1.2	1.342	158.79	119.09
CB0121	-1	-1	1.414	158.69	119.02
CB0143	-0.8	-1.2	1.442	158.54	118.91
CB0320	1	1	1.414	158.48	118.86
CB0091	-1.2	0.8	1.442	158.13	118.60
CB0234	0.2	1.4	1.414	158.11	118.58
CB0214	0	1.4	1.400	157.89	118.42
CB0342	1.2	0.8	1.442	157.05	117.79
CB0255	0.4	1.4	1.456	156.64	117.48
CB0072	-1.4	0.4	1.456	156.52	117.39
CB0269	0.4	-1.4	1.456	156.47	117.35
CB0366	1.4	0.2	1.414	156.26	117.20
CB0207	-0.2	-1.4	1.414	155.9	116.93
CB0172	-0.4	1.4	1.456	155.69	116.77
CB0364	1.4	0.6	1.523	154.38	115.79
CB0077	-1.4	-0.6	1.523	154.21	115.66
CB0165	-0.6	-1.4	1.523	153.56	115.17
CB0151	-0.6	1.4	1.523	152.71	114.53
CB0369	1.4	-0.4	1.456	152.66	114.50
CB0370	1.4	-0.6	1.523	152.57	114.43
CB0186	-0.4	-1.4	1.456	152.19	114.14
CB0122	-1	-1.2	1.562	151.93	113.95
CB0276	0.6	1.4	1.523	151.49	113.62
CB0076	-1.4	-0.4	1.456	151.06	113.30
CB0248	0.2	-1.4	1.414	151.03	113.27
CB0228	0	-1.6	1.600	150.97	113.23
CB0319	1	1.2	1.562	150.75	113.06
CB0389	1.6	-0.2	1.612	150.33	112.75
CB0144	-0.8	-1.4	1.612	150.07	112.55
CB0213	0	1.6	1.600	149.3	111.98
CB0290	0.6	-1.4	1.523	149.27	111.95
CB0090	-1.2	1	1.562	148.95	111.71
CB0053	-1.6	0	1.600	148.65	111.49

CB0110	-1	1.2	1.562	148.59	111.44
CB0078	-1.4	-0.8	1.612	148.18	111.14
CB0388	1.6	0	1.600	148.08	111.06
CB0171	-0.4	1.6	1.649	147.98	110.99
CB0051	-1.6	0.4	1.649	147.89	110.92
CB0052	-1.6	0.2	1.612	147.52	110.64
CB0233	0.2	1.6	1.612	147.21	110.41
CB0363	1.4	0.8	1.612	147.06	110.30
CB0130	-0.8	1.4	1.612	146.85	110.14
CB0070	-1.4	0.8	1.612	146.59	109.94
CB0351	1.2	-1	1.562	146.31	109.73
CB0054	-1.6	-0.2	1.612	146.04	109.53
CB0365	1.4	0.4	1.456	145.95	109.46
CB0331	1	-1.2	1.562	145.9	109.43
CB0100	-1.2	-1	1.562	145.65	109.24
CB0055	-1.6	-0.4	1.649	145.1	108.83
CB0350	1.2	-0.8	1.442	144.75	108.56
CB0071	-1.4	0.6	1.523	144.65	108.49
CB0270	0.4	-1.6	1.649	144.2	108.15
CB0341	1.2	1	1.562	144	108.00
CB0089	-1.2	1.2	1.697	143.92	107.94
CB0275	0.6	1.6	1.709	143.92	107.94
CB0330	1	-1	1.414	143.9	107.93
CB0297	0.8	1.4	1.612	143.66	107.75
CB0101	-1.2	-1.2	1.697	143.23	107.42
CB0371	1.4	-0.8	1.612	143.04	107.28
CB0192	-0.2	1.6	1.612	143.01	107.26
CB0254	0.4	1.6	1.649	142.65	106.99
CB0362	1.4	1	1.720	141.39	106.04
CB0208	-0.2	-1.6	1.612	141.31	105.98
CB0079	-1.4	-1	1.720	140.61	105.46
CB0229	0	-1.8	1.800	140.33	105.25
CB0150	-0.6	1.6	1.709	140.15	105.11
CB0212	0	1.8	1.800	140.01	105.01
CB0318	1	1.4	1.720	139.58	104.69
CB0031	-1.8	0.2	1.811	139.47	104.60
CB0123	-1	-1.4	1.720	139.42	104.57
CB0410	1.8	-0.2	1.811	138.69	104.02
CB0057	-1.6	-0.8	1.789	138.66	104.00
CB0312	0.8	-1.6	1.789	138.49	103.87
CB0032	-1.8	0	1.800	138.42	103.82
CB0340	1.2	1.2	1.697	138.35	103.76
CB0384	1.6	0.8	1.789	138.15	103.61
CB0253	0.4	1.8	1.844	137.65	103.24
CB0109	-1	1.4	1.720	137.61	103.21
CB0392	1.6	-0.8	1.789	137.56	103.17
CB0050	-1.6	0.6	1.709	137.55	103.16

CB0049	-1.6	0.8	1.789	136.72	102.54
CB0387	1.6	0.2	1.612	136.24	102.18
CB0352	1.2	-1.2	1.697	136.1	102.08
CB0372	1.4	-1	1.720	135.94	101.96
CB0409	1.8	0	1.800	135.7	101.78
CB0385	1.6	0.6	1.709	135.58	101.69
CB0271	0.4	-1.8	1.844	135.36	101.52
CB0291	0.6	-1.6	1.709	135.2	101.40
CB0034	-1.8	-0.4	1.844	135.17	101.38
CB0296	0.8	1.6	1.789	134.82	101.12
CB0249	0.2	-1.6	1.612	134.69	101.02
CB0129	-0.8	1.6	1.789	134.51	100.88
CB0048	-1.6	1	1.887	134.43	100.82
CB0058	-1.6	-1	1.887	134.4	100.80
CB0056	-1.6	-0.6	1.709	134.36	100.77
CB0191	-0.2	1.8	1.811	134.35	100.76
CB0170	-0.4	1.8	1.844	134.06	100.55
CB0102	-1.2	-1.4	1.844	134.02	100.52
CB0187	-0.4	-1.6	1.649	133.91	100.43
CB0145	-0.8	-1.6	1.789	133.81	100.36
CB0232	0.2	1.8	1.811	133.52	100.14
CB0339	1.2	1.4	1.844	133.47	100.10
CB0029	-1.8	0.6	1.897	133.37	100.03
CB0209	-0.2	-1.8	1.811	133.09	99.82
CB0391	1.6	-0.6	1.709	132.77	99.58
CB0386	1.6	0.4	1.649	132.55	99.41
CB0108	-1	1.6	1.887	132.51	99.38
CB0036	-1.8	-0.8	1.970	132.24	99.18
CB0030	-1.8	0.4	1.844	132.23	99.17
CB0166	-0.6	-1.6	1.709	132.03	99.02
CB0033	-1.8	-0.2	1.811	132.02	99.02
CB0146	-0.8	-1.8	1.970	131.96	98.97
CB0313	0.8	-1.8	1.970	131.79	98.84
CB0361	1.4	1.2	1.844	131.18	98.39
CB0338	1.2	1.6	2.000	131.17	98.38
CB0310	0.8	-1.2	1.442	131.01	98.26
CB0211	0	2	2.000	130.92	98.19
CB0080	-1.4	-1.2	1.844	130.65	97.99
CB0124	-1	-1.6	1.887	130.55	97.91
CB0405	1.8	0.8	1.970	130.4	97.80
CB0230	0	-2	2.000	130.33	97.75
CB0068	-1.4	1.2	1.844	130.21	97.66
CB0081	-1.4	-1.4	1.980	130.07	97.55
CB0292	0.6	-1.8	1.897	130.06	97.55
CB0010	-2	0.2	2.010	129.61	97.21
CB0406	1.8	0.6	1.897	129.59	97.19
CB0317	1	1.6	1.887	129.46	97.10

CB0412	1.8	-0.6	1.897	129.17	96.88
CB0353	1.2	-1.4	1.844	129.09	96.82
CB0311	0.8	-1.4	1.612	128.87	96.65
CB0011	-2	0	2.000	128.71	96.53
CB0128	-0.8	1.8	1.970	128.64	96.48
CB0390	1.6	-0.4	1.649	128.58	96.44
CB0383	1.6	1	1.887	128.45	96.34
CB0413	1.8	-0.8	1.970	128.42	96.32
CB0404	1.8	1	2.059	128.28	96.21
CB0088	-1.2	1.4	1.844	128.21	96.16
CB0067	-1.4	1.4	1.980	128.12	96.09
CB0252	0.4	2	2.040	128.12	96.09
CB0272	0.4	-2	2.040	127.94	95.96
CB0295	0.8	1.8	1.970	127.88	95.91
CB0028	-1.8	0.8	1.970	127.71	95.78
CB0190	-0.2	2	2.010	127.53	95.65
CB0408	1.8	0.2	1.811	127.42	95.57
CB0069	-1.4	1	1.720	127.23	95.42
CB0394	1.6	-1.2	2.000	126.82	95.12
CB0027	-1.8	1	2.059	126.69	95.02
CB0373	1.4	-1.2	1.844	126.67	95.00
CB0293	0.6	-2	2.088	126.28	94.71
CB0125	-1	-1.8	2.059	126.18	94.64
CB0210	-0.2	-2	2.010	126.08	94.56
CB0431	2	-0.2	2.010	126.07	94.55
CB0374	1.4	-1.4	1.980	125.97	94.48
CB0250	0.2	-1.8	1.811	125.79	94.34
CB0274	0.6	1.8	1.897	125.42	94.07
CB0427	2	0.6	2.088	125.25	93.94
CB0103	-1.2	-1.6	2.000	125.07	93.80
CB0430	2	0	2.000	124.65	93.49
CB0009	-2	0.4	2.040	124.47	93.35
CB0035	-1.8	-0.6	1.897	124.33	93.25
CB0014	-2	-0.6	2.088	124.31	93.23
CB0382	1.6	1.2	2.000	124.29	93.22
CB0407	1.8	0.4	1.844	124.12	93.09
CB0059	-1.6	-1.2	2.000	123.68	92.76
CB0012	-2	-0.2	2.010	123.66	92.75
CB0007	-2	0.8	2.154	123.56	92.67
CB0360	1.4	1.4	1.980	123.53	92.65
CB0107	-1	1.8	2.059	123.43	92.57
CB0231	0.2	2	2.010	123.18	92.39
CB0429	2	0.2	2.010	123	92.25
CB0188	-0.4	-1.8	1.844	122.82	92.12
CB0149	-0.6	1.8	1.897	122.74	92.06
CB0393	1.6	-1	1.887	122.68	92.01
CB0037	-1.8	-1	2.059	122.67	92.00

CB0314	0.8	-2	2.154	122.58	91.94
CB0047	-1.6	1.2	2.000	122.44	91.83
CB0332	1	-1.4	1.720	122.44	91.83
CB0337	1.2	1.8	2.163	122.33	91.75
CB0294	0.8	2	2.154	122.21	91.66
CB0375	1.4	-1.6	2.126	121.47	91.10
CB0426	2	0.8	2.154	121.1	90.83
CB0411	1.8	-0.4	1.844	120.74	90.56
CB0086	-1.2	1.8	2.163	120.3	90.23
CB0038	-1.8	-1.2	2.163	120.18	90.14
CB0008	-2	0.6	2.088	120.06	90.05
CB0359	1.4	1.6	2.126	119.93	89.95
CB0358	1.4	1.8	2.280	119.92	89.94
CB0127	-0.8	2	2.154	119.81	89.86
CB0087	-1.2	1.6	2.000	119.77	89.83
CB0006	-2	1	2.236	119.43	89.57
CB0315	1	2	2.236	119.43	89.57
CB0251	0.2	-2	2.010	119.37	89.53
CB0432	2	-0.4	2.040	119.33	89.50
CB0316	1	1.8	2.059	118.6	88.95
CB0104	-1.2	-1.8	2.163	118.19	88.64
CB0061	-1.6	-1.6	2.263	118.06	88.55
CB0013	-2	-0.4	2.040	117.91	88.43
CB0273	0.6	2	2.088	117.87	88.40
CB0046	-1.6	1.4	2.126	117.76	88.32
CB0045	-1.6	1.6	2.263	117.7	88.28
CB0354	1.2	-1.6	2.000	117.6	88.20
CB0126	-1	-2	2.236	117.27	87.95
CB0026	-1.8	1.2	2.163	117.16	87.87
CB0425	2	1	2.236	116.84	87.63
CB0381	1.6	1.4	2.126	116.81	87.61
CB0025	-1.8	1.4	2.280	116.78	87.59
CB0005	-2	1.2	2.332	116.6	87.45
CB0082	-1.4	-1.6	2.126	116.52	87.39
CB0016	-2	-1	2.236	116.34	87.26
CB0060	-1.6	-1.4	2.126	116.26	87.20
CB0148	-0.6	2	2.088	116.1	87.08
CB0335	1	-2	2.236	116.1	87.08
CB0169	-0.4	2	2.040	116.08	87.06
CB0017	-2	-1.2	2.332	115.85	86.89
CB0396	1.6	-1.6	2.263	115.81	86.86
CB0414	1.8	-1	2.059	115.73	86.80
CB0083	-1.4	-1.8	2.280	115.31	86.48
CB0015	-2	-0.8	2.154	115.22	86.42
CB0435	2	-1	2.236	114.96	86.22
CB0147	-0.8	-2	2.154	114.49	85.87
CB0066	-1.4	1.6	2.126	114.07	85.55

CB0403	1.8	1.2	2.163	113.62	85.22
CB0397	1.6	-1.8	2.408	113.42	85.07
CB0433	2	-0.6	2.088	113.32	84.99
CB0395	1.6	-1.4	2.126	113.21	84.91
CB0402	1.8	1.4	2.280	113.16	84.87
CB0018	-2	-1.4	2.441	113.07	84.80
CB0167	-0.6	-1.8	1.897	112.74	84.56
CB0106	-1	2	2.236	112.65	84.49
CB0428	2	0.4	2.040	112.55	84.41
CB0105	-1.2	-2	2.332	112.12	84.09
CB0380	1.6	1.6	2.263	111.88	83.91
CB0416	1.8	-1.4	2.280	111.53	83.65
CB0424	2	1.2	2.332	111.34	83.51
CB0333	1	-1.6	1.887	111.11	83.33
CB0065	-1.4	1.8	2.280	110.84	83.13
CB0168	-0.6	-2	2.088	110.63	82.97
CB0357	1.4	2	2.441	110.4	82.80
CB0003	-2	1.6	2.561	109.19	81.89
CB0379	1.6	1.8	2.408	108.86	81.65
CB0023	-1.8	1.8	2.546	108.6	81.45
CB0039	-1.8	-1.4	2.280	108.51	81.38
CB0378	1.6	2	2.561	108.11	81.08
CB0041	-1.8	-1.8	2.546	107.55	80.66
CB0334	1	-1.8	2.059	107.53	80.65
CB0044	-1.6	1.8	2.408	107.41	80.56
CB0418	1.8	-1.8	2.546	106.45	79.84
CB0434	2	-0.8	2.154	106.44	79.83
CB0024	-1.8	1.6	2.408	105.87	79.40
CB0064	-1.4	2	2.441	105.87	79.40
CB0085	-1.2	2	2.332	105.8	79.35
CB0423	2	1.4	2.441	105.67	79.25
CB0419	1.8	-2	2.691	105.55	79.16
CB0436	2	-1.2	2.332	105.41	79.06
CB0062	-1.6	-1.8	2.408	105.02	78.77
CB0084	-1.4	-2	2.441	104.74	78.56
CB0336	1.2	2	2.332	104.47	78.35
CB0063	-1.6	-2	2.561	104.3	78.23
CB0376	1.4	-1.8	2.280	104.25	78.19
CB0417	1.8	-1.6	2.408	103.81	77.86
CB0401	1.8	1.6	2.408	103.23	77.42
CB0189	-0.4	-2	2.040	102.99	77.24
CB0415	1.8	-1.2	2.163	102.72	77.04
CB0040	-1.8	-1.6	2.408	102.64	76.98
CB0400	1.8	1.8	2.546	101.75	76.31
CB0422	2	1.6	2.561	100.94	75.71
CB0438	2	-1.6	2.561	100.74	75.56
CB0022	-1.8	2	2.691	100.68	75.51

CB0399	1.8	2	2.691	100.5	75.38
CB0001	-2	2	2.828	100.43	75.32
CB0043	-1.6	2	2.561	100.35	75.26
CB0437	2	-1.4	2.441	98.81	74.11
CB0021	-2	-2	2.828	98.49	73.87
CB0440	2	-2	2.828	98.11	73.58
CB0042	-1.8	-2	2.691	97.9	73.43
CB0398	1.6	-2	2.561	97.45	73.09
CB0019	-2	-1.6	2.561	97.26	72.95
CB0356	1.2	-2	2.332	97.09	72.82
CB0004	-2	1.4	2.441	96.21	72.16
CB0002	-2	1.8	2.691	95.19	71.39
CB0439	2	-1.8	2.691	94.91	71.18
CB0420	2	2	2.828	93.05	69.79
CB0421	2	1.8	2.691	91.42	68.57
CB0020	-2	-1.8	2.691	90.6	67.95
CB0355	1.2	-1.8	2.163	83.15	62.36
CB0377	1.4	-2	2.441	81	60.75

Maximum distance of grid 2.828 km

Distance to compliance 1.897 km

ARM used to convert NOx to NO2

Receptor grid based on 200-m spacing out to 2 km east, west, north and south of vessel

	x (km)	y (km)	dist (km)	max 1-hr NOx (ug/m3)	max 1-hr NO2 (ug/m3)
CB0221	0	-0.25	0.250	702.04	526.53
CB0241	0.25	0	0.250	697.78	523.34
CB0200	-0.25	0	0.250	677.15	507.86
CB0220	0	0.25	0.250	643.51	482.63
CB0240	0.25	0.25	0.354	516.41	387.31
CB0199	-0.25	0.25	0.354	513.95	385.46
CB0242	0.25	-0.25	0.354	511.49	383.62
CB0201	-0.25	-0.25	0.354	509.68	382.26
CB0179	-0.5	0	0.500	363.51	272.63
CB0222	0	-0.5	0.500	362.43	271.82
CB0262	0.5	0	0.500	360.35	270.26
CB0219	0	0.5	0.500	359.86	269.90
CB0261	0.5	0.25	0.559	341.61	256.21
CB0198	-0.25	0.5	0.559	336.75	252.56
CB0178	-0.5	0.25	0.559	336.32	252.24
CB0239	0.25	0.5	0.559	335.42	251.57
CB0243	0.25	-0.5	0.559	334.23	250.67
CB0263	0.5	-0.25	0.559	333.38	250.04
CB0202	-0.25	-0.5	0.559	326.98	245.24
CB0180	-0.5	-0.25	0.559	323.72	242.79
CB0260	0.5	0.5	0.707	277.34	208.01
CB0158	-0.75	0	0.750	273.96	205.47
CB0177	-0.5	0.5	0.707	271.51	203.63
CB0181	-0.5	-0.5	0.707	268.11	201.08
CB0218	0	0.75	0.750	266.51	199.88
CB0223	0	-0.75	0.750	263.45	197.59
CB0264	0.5	-0.5	0.707	260.45	195.34
CB0159	-0.75	-0.25	0.791	256.16	192.12
CB0197	-0.25	0.75	0.791	251.37	188.53
CB0282	0.75	0.25	0.791	250.84	188.13
CB0238	0.25	0.75	0.791	248.16	186.12
CB0157	-0.75	0.25	0.791	246.79	185.09
CB0244	0.25	-0.75	0.791	246.15	184.61
CB0284	0.75	-0.25	0.791	241.62	181.22
CB0283	0.75	0	0.750	240.62	180.47
CB0203	-0.25	-0.75	0.791	233.26	174.95
CB0156	-0.75	0.5	0.901	227.7	170.78
CB0281	0.75	0.5	0.901	227.69	170.77
CB0176	-0.5	0.75	0.901	222.73	167.05
CB0259	0.5	0.75	0.901	218.87	164.15
CB0137	-1	0	1.000	218.21	163.66
CB0182	-0.5	-0.75	0.901	216.42	162.32
CB0160	-0.75	-0.5	0.901	216.21	162.16
CB0265	0.5	-0.75	0.901	210.58	157.94
CB0237	0.25	1	1.031	208.17	156.13
CB0196	-0.25	1	1.031	207.03	155.27

2.5km

CB0136	-1	0.25	1.031	204.72	153.54
CB0224	0	-1	1.000	202.19	151.64
CB0138	-1	-0.25	1.031	202.07	151.55
CB0217	0	1	1.000	200.97	150.73
CB0175	-0.5	1	1.118	200.32	150.24
CB0304	1	0	1.000	198.73	149.05
CB0155	-0.75	0.75	1.061	198.5	148.88
CB0285	0.75	-0.5	0.901	198.31	148.73
CB0280	0.75	0.75	1.061	196.56	147.42
CB0204	-0.25	-1	1.031	194.67	146.00
CB0245	0.25	-1	1.031	190.26	142.70
CB0139	-1	-0.5	1.118	190.1	142.58
CB0303	1	0.25	1.031	189.74	142.31
CB0258	0.5	1	1.118	189	141.75
CB0161	-0.75	-0.75	1.061	188.29	141.22
CB0135	-1	0.5	1.118	184.73	138.55
CB0116	-1.25	0	1.250	184.08	138.06
CB0302	1	0.5	1.118	183.45	137.59
CB0286	0.75	-0.75	1.061	182.17	136.63
CB0183	-0.5	-1	1.118	181.98	136.49
CB0266	0.5	-1	1.118	179.6	134.70
CB0306	1	-0.5	1.118	178.83	134.12
CB0140	-1	-0.75	1.250	178.7	134.03
CB0305	1	-0.25	1.031	177.33	133.00
CB0307	1	-0.75	1.250	172.22	129.17
CB0325	1.25	0	1.250	172.06	129.05
CB0154	-0.75	1	1.250	171.88	128.91
CB0236	0.25	1.25	1.275	171.86	128.90
CB0301	1	0.75	1.250	169.76	127.32
CB0279	0.75	1	1.250	169.59	127.19
CB0225	0	-1.25	1.250	168.75	126.56
CB0326	1.25	-0.25	1.275	168.65	126.49
CB0216	0	1.25	1.250	168.31	126.23
CB0246	0.25	-1.25	1.275	168.25	126.19
CB0162	-0.75	-1	1.250	168.15	126.11
CB0287	0.75	-1	1.250	167.5	125.63
CB0117	-1.25	-0.25	1.275	166.92	125.19
CB0195	-0.25	1.25	1.275	166.56	124.92
CB0115	-1.25	0.25	1.275	166.23	124.67
CB0257	0.5	1.25	1.346	165.57	124.18
CB0184	-0.5	-1.25	1.346	163.89	122.92
CB0323	1.25	0.5	1.346	163.83	122.87
CB0174	-0.5	1.25	1.346	162.7	122.03
CB0134	-1	0.75	1.250	162.47	121.85
CB0324	1.25	0.25	1.275	162.03	121.52
CB0114	-1.25	0.5	1.346	161.87	121.40
CB0133	-1	1	1.414	161.72	121.29

2.5km

CB0118	-1.25	-0.5	1.346	161.19	120.89
CB0205	-0.25	-1.25	1.275	159.27	119.45
CB0141	-1	-1	1.414	158.69	119.02
CB0300	1	1	1.414	158.48	118.86
CB0322	1.25	0.75	1.458	158.22	118.67
CB0327	1.25	-0.5	1.346	157.58	118.19
CB0163	-0.75	-1.25	1.458	156.87	117.65
CB0113	-1.25	0.75	1.458	156.37	117.28
CB0226	0	-1.5	1.500	156.35	117.26
CB0095	-1.5	0	1.500	156.03	117.02
CB0153	-0.75	1.25	1.458	155.25	116.44
CB0119	-1.25	-0.75	1.458	155.24	116.43
CB0096	-1.5	-0.25	1.521	154.98	116.24
CB0328	1.25	-0.75	1.458	154.93	116.20
CB0346	1.5	0	1.500	154.73	116.05
CB0094	-1.5	0.25	1.521	154.37	115.78
CB0215	0	1.5	1.500	153.77	115.33
CB0278	0.75	1.25	1.458	153.48	115.11
CB0247	0.25	-1.5	1.521	152.14	114.11
CB0093	-1.5	0.5	1.581	151.31	113.48
CB0345	1.5	0.25	1.521	151.14	113.36
CB0142	-1	-1.25	1.601	150.33	112.75
CB0299	1	1.25	1.601	149.9	112.43
CB0268	0.5	-1.5	1.581	149.09	111.82
CB0267	0.5	-1.25	1.346	148.88	111.66
CB0347	1.5	-0.25	1.521	148.49	111.37
CB0348	1.5	-0.5	1.581	148.25	111.19
CB0321	1.25	1	1.601	147.97	110.98
CB0132	-1	1.25	1.601	147.96	110.97
CB0288	0.75	-1.25	1.458	147.23	110.42
CB0235	0.25	1.5	1.521	146.68	110.01
CB0194	-0.25	1.5	1.521	146.42	109.82
CB0309	1	-1.25	1.601	145.54	109.16
CB0120	-1.25	-1	1.601	145.36	109.02
CB0098	-1.5	-0.75	1.677	145.08	108.81
CB0289	0.75	-1.5	1.677	144.94	108.71
CB0343	1.5	0.75	1.677	144.71	108.53
CB0349	1.5	-0.75	1.677	144.13	108.10
CB0097	-1.5	-0.5	1.581	144.02	108.02
CB0308	1	-1	1.414	143.9	107.93
CB0173	-0.5	1.5	1.581	143.81	107.86
CB0227	0	-1.75	1.750	142.94	107.21
CB0092	-1.5	0.75	1.677	142.5	106.88
CB0214	0	1.75	1.750	142.34	106.76
CB0329	1.25	-1	1.601	141.18	105.89
CB0277	0.75	1.5	1.677	141	105.75
CB0074	-1.75	0	1.750	140.94	105.71

2.5km

CB0112	-1.25	1	1.601	140.85	105.64
CB0152	-0.75	1.5	1.677	140.79	105.59
CB0344	1.5	0.5	1.581	140.68	105.51
CB0075	-1.75	-0.25	1.768	140.18	105.14
CB0121	-1.25	-1.25	1.768	139.88	104.91
CB0368	1.75	-0.25	1.768	139.88	104.91
CB0298	1	1.5	1.803	139.87	104.90
CB0111	-1.25	1.25	1.768	139.75	104.81
CB0206	-0.25	-1.5	1.521	139.71	104.78
CB0269	0.5	-1.75	1.820	138.82	104.12
CB0367	1.75	0	1.750	138.67	104.00
CB0131	-1	1.5	1.803	138.27	103.70
CB0164	-0.75	-1.5	1.677	137.95	103.46
CB0256	0.5	1.5	1.581	137.43	103.07
CB0099	-1.5	-1	1.803	137.35	103.01
CB0143	-1	-1.5	1.803	136.63	102.47
CB0193	-0.25	1.75	1.768	136.23	102.17
CB0185	-0.5	-1.5	1.581	136.07	102.05
CB0091	-1.5	1	1.803	135.77	101.83
CB0248	0.25	-1.75	1.768	135.42	101.57
CB0364	1.75	0.75	1.904	135.25	101.44
CB0073	-1.75	0.25	1.768	135.13	101.35
CB0072	-1.75	0.5	1.820	134.69	101.02
CB0076	-1.75	-0.5	1.820	134.19	100.64
CB0234	0.25	1.75	1.768	134.15	100.61
CB0077	-1.75	-0.75	1.904	134.12	100.59
CB0320	1.25	1.25	1.768	134.09	100.57
CB0165	-0.75	-1.75	1.904	133.84	100.38
CB0330	1.25	-1.25	1.768	133.66	100.25
CB0290	0.75	-1.75	1.904	133.59	100.19
CB0365	1.75	0.5	1.820	133.52	100.14
CB0255	0.5	1.75	1.820	132.97	99.73
CB0366	1.75	0.25	1.768	132.95	99.71
CB0342	1.5	1	1.803	132.68	99.51
CB0172	-0.5	1.75	1.820	132.2	99.15
CB0319	1.25	1.5	1.953	131.86	98.90
CB0207	-0.25	-1.75	1.768	131.45	98.59
CB0276	0.75	1.75	1.904	131.28	98.46
CB0071	-1.75	0.75	1.904	131.09	98.32
CB0213	0	2	2.000	130.92	98.19
CB0228	0	-2	2.000	130.33	97.75
CB0151	-0.75	1.75	1.904	130.24	97.68
CB0370	1.75	-0.75	1.904	130.03	97.52
CB0070	-1.75	1	2.016	129.74	97.31
CB0389	2	-0.25	2.016	129.33	97.00
CB0122	-1.25	-1.5	1.953	129.31	96.98
CB0363	1.75	1	2.016	129.24	96.93

2.5km

CB0090	-1.5	1.25	1.953	128.83	96.62
CB0053	-2	0	2.000	128.71	96.53
CB0144	-1	-1.75	2.016	128.34	96.26
CB0171	-0.5	2	2.062	127.99	95.99
CB0186	-0.5	-1.75	1.820	127.67	95.75
CB0052	-2	0.25	2.016	126.83	95.12
CB0078	-1.75	-1	2.016	126.77	95.08
CB0192	-0.25	2	2.016	125.88	94.41
CB0270	0.5	-2	2.062	125.85	94.39
CB0051	-2	0.5	2.062	125.75	94.31
CB0369	1.75	-0.5	1.820	125.47	94.10
CB0110	-1.25	1.5	1.953	125.43	94.07
CB0388	2	0	2.000	124.65	93.49
CB0130	-1	1.75	2.016	123.97	92.98
CB0101	-1.5	-1.5	2.121	123.88	92.91
CB0233	0.25	2	2.016	123.79	92.84
CB0318	1.25	1.75	2.151	122.89	92.17
CB0254	0.5	2	2.062	122.84	92.13
CB0089	-1.5	1.5	2.121	122.53	91.90
CB0079	-1.75	-1.25	2.151	122.39	91.79
CB0054	-2	-0.25	2.016	122.37	91.78
CB0331	1.25	-1.5	1.953	122.25	91.69
CB0351	1.5	-1.25	1.953	122.15	91.61
CB0100	-1.5	-1.25	1.953	121.99	91.49
CB0275	0.75	2	2.136	121.75	91.31
CB0055	-2	-0.5	2.062	121.74	91.31
CB0050	-2	0.75	2.136	121.47	91.10
CB0350	1.5	-1	1.803	121.16	90.87
CB0352	1.5	-1.5	2.121	120.82	90.62
CB0291	0.75	-2	2.136	120.65	90.49
CB0341	1.5	1.25	1.953	120.42	90.32
CB0212	0	2.25	2.250	120.38	90.29
CB0049	-2	1	2.236	119.43	89.57
CB0296	1	2	2.236	119.43	89.57
CB0229	0	-2.25	2.250	119.07	89.30
CB0191	-0.25	2.25	2.264	118.75	89.06
CB0362	1.75	1.25	2.151	118.52	88.89
CB0031	-2.25	0.25	2.264	118.14	88.61
CB0032	-2.25	0	2.250	117.7	88.28
CB0150	-0.75	2	2.136	117.62	88.22
CB0340	1.5	1.5	2.121	117.52	88.14
CB0208	-0.25	-2	2.016	117.51	88.13
CB0410	2.25	-0.25	2.264	117.28	87.96
CB0145	-1	-2	2.236	117.27	87.95
CB0253	0.5	2.25	2.305	116.91	87.68
CB0384	2	1	2.236	116.84	87.63
CB0249	0.25	-2	2.016	116.76	87.57

2.5km

CB0058	-2	-1.25	2.358	116.43	87.32
CB0057	-2	-1	2.236	116.34	87.26
CB0123	-1.25	-1.75	2.151	116.25	87.19
CB0312	1	-2	2.236	116.1	87.08
CB0386	2	0.5	2.062	115.81	86.86
CB0297	1	1.75	2.016	115.77	86.83
CB0371	1.75	-1	2.016	115.22	86.42
CB0392	2	-1	2.236	114.96	86.22
CB0271	0.5	-2.25	2.305	114.85	86.14
CB0339	1.5	1.75	2.305	114.82	86.12
CB0109	-1.25	1.75	2.151	114.59	85.94
CB0048	-2	1.25	2.358	114.5	85.88
CB0068	-1.75	1.5	2.305	114.37	85.78
CB0170	-0.5	2.25	2.305	113.65	85.24
CB0385	2	0.75	2.136	113.64	85.23
CB0372	1.75	-1.25	2.151	113.57	85.18
CB0338	1.5	2	2.500	113.37	85.03
CB0406	2.25	0.75	2.372	112.96	84.72
CB0313	1	-2.25	2.462	112.78	84.59
CB0034	-2.25	-0.5	2.305	112.76	84.57
CB0409	2.25	0	2.250	112.68	84.51
CB0387	2	0.25	2.016	112.67	84.50
CB0129	-1	2	2.236	112.65	84.49
CB0353	1.5	-1.75	2.305	112.2	84.15
CB0036	-2.25	-1	2.462	111.66	83.75
CB0102	-1.5	-1.75	2.305	111.49	83.62
CB0029	-2.25	0.75	2.372	111.33	83.50
CB0146	-1	-2.25	2.462	111.33	83.50
CB0295	1	2.25	2.462	111.27	83.45
CB0028	-2.25	1	2.462	111.1	83.33
CB0405	2.25	1	2.462	111.08	83.31
CB0209	-0.25	-2.25	2.264	111.02	83.27
CB0274	0.75	2.25	2.372	111.02	83.27
CB0232	0.25	2.25	2.264	111	83.25
CB0211	0	2.5	2.500	110.98	83.24
CB0056	-2	-0.75	2.136	110.87	83.15
CB0067	-1.75	1.75	2.475	110.79	83.09
CB0108	-1.25	2	2.358	110.78	83.09
CB0190	-0.25	2.5	2.512	110.73	83.05
CB0391	2	-0.75	2.136	110.21	82.66
CB0230	0	-2.5	2.500	110.19	82.64
CB0081	-1.75	-1.75	2.475	110.04	82.53
CB0030	-2.25	0.5	2.305	109.84	82.38
CB0373	1.75	-1.5	2.305	109.4	82.05
CB0187	-0.5	-2	2.062	109.33	82.00
CB0033	-2.25	-0.25	2.264	109.08	81.81
CB0125	-1.25	-2.25	2.574	109	81.75

2.5km

CB0404	2.25	1.25	2.574	108.71	81.53
CB0292	0.75	-2.25	2.372	108.7	81.53
CB0374	1.75	-1.75	2.475	108.7	81.53
CB0069	-1.75	1.25	2.151	108.68	81.51
CB0010	-2.5	0.25	2.512	108.48	81.36
CB0124	-1.25	-2	2.358	108.41	81.31
CB0166	-0.75	-2	2.136	108.41	81.31
CB0361	1.75	1.5	2.305	108.28	81.21
CB0035	-2.25	-0.75	2.372	108.22	81.17
CB0011	-2.5	0	2.500	108.03	81.02
CB0027	-2.25	1.25	2.574	107.86	80.90
CB0427	2.5	0.75	2.610	107.83	80.87
CB0080	-1.75	-1.5	2.305	107.73	80.80
CB0009	-2.5	0.5	2.550	107.61	80.71
CB0252	0.5	2.5	2.550	107.44	80.58
CB0014	-2.5	-0.75	2.610	107.27	80.45
CB0059	-2	-1.5	2.500	107.02	80.27
CB0317	1.25	2	2.358	106.91	80.18
CB0272	0.5	-2.5	2.550	106.76	80.07
CB0293	0.75	-2.5	2.610	106.69	80.02
CB0412	2.25	-0.75	2.372	106.64	79.98
CB0408	2.25	0.25	2.264	106.59	79.94
CB0128	-1	2.25	2.462	106.52	79.89
CB0413	2.25	-1	2.462	106.28	79.71
CB0383	2	1.25	2.358	106.12	79.59
CB0407	2.25	0.5	2.305	105.82	79.37
CB0047	-2	1.5	2.500	105.8	79.35
CB0007	-2.5	1	2.693	105.45	79.09
CB0314	1	-2.5	2.693	105.38	79.04
CB0088	-1.5	1.75	2.305	105.34	79.01
CB0390	2	-0.5	2.062	105.23	78.92
CB0311	1	-1.75	2.016	105.22	78.92
CB0431	2.5	-0.25	2.512	105.1	78.83
CB0394	2	-1.5	2.500	104.8	78.60
CB0250	0.25	-2.25	2.264	104.78	78.59
CB0231	0.25	2.5	2.512	104.62	78.47
CB0210	-0.25	-2.5	2.512	104.36	78.27
CB0360	1.75	1.75	2.475	104.15	78.11
CB0375	1.75	-2	2.658	103.82	77.87
CB0294	1	2.5	2.693	103.72	77.79
CB0103	-1.5	-2	2.500	103.53	77.65
CB0038	-2.25	-1.5	2.704	103.04	77.28
CB0310	1	-1.5	1.803	102.57	76.93
CB0430	2.5	0	2.500	102.5	76.88
CB0273	0.75	2.5	2.610	102.45	76.84
CB0382	2	1.5	2.500	102.44	76.83
CB0149	-0.75	2.25	2.372	102.4	76.80

2.5km

CB0006	-2.5	1.25	2.795	102.15	76.61
CB0315	1.25	2.5	2.795	102.14	76.61
CB0429	2.5	0.25	2.512	102.13	76.60
CB0127	-1	2.5	2.693	102.05	76.54
CB0358	1.75	2.25	2.850	101.8	76.35
CB0012	-2.5	-0.25	2.512	101.74	76.31
CB0037	-2.25	-1.25	2.574	101.73	76.30
CB0107	-1.25	2.25	2.574	101.69	76.27
CB0337	1.5	2.25	2.704	101.59	76.19
CB0251	0.25	-2.5	2.512	101.18	75.89
CB0359	1.75	2	2.658	101.11	75.83
CB0426	2.5	1	2.693	100.9	75.68
CB0046	-2	1.75	2.658	100.79	75.59
CB0045	-2	2	2.828	100.43	75.32
CB0393	2	-1.25	2.358	100.33	75.25
CB0332	1.25	-1.75	2.151	100.17	75.13
CB0188	-0.5	-2.25	2.305	100.03	75.02
CB0425	2.5	1.25	2.795	99.64	74.73
CB0025	-2.25	1.75	2.850	99.52	74.64
CB0126	-1.25	-2.5	2.795	99.41	74.56
CB0086	-1.5	2.25	2.704	99.37	74.53
CB0005	-2.5	1.5	2.915	99.28	74.46
CB0008	-2.5	0.75	2.610	98.98	74.24
CB0411	2.25	-0.5	2.305	98.68	74.01
CB0395	2	-1.75	2.658	98.66	74.00
CB0061	-2	-2	2.828	98.49	73.87
CB0396	2	-2	2.828	98.11	73.58
CB0316	1.25	2.25	2.574	98.1	73.58
CB0087	-1.5	2	2.500	98.03	73.52
CB0017	-2.5	-1.5	2.915	97.55	73.16
CB0432	2.5	-0.5	2.550	97.42	73.07
CB0066	-1.75	2	2.658	97.24	72.93
CB0104	-1.5	-2.25	2.704	97.09	72.82
CB0013	-2.5	-0.5	2.550	96.7	72.53
CB0026	-2.25	1.5	2.704	96.68	72.51
CB0169	-0.5	2.5	2.550	96.09	72.07
CB0018	-2.5	-1.75	3.052	95.82	71.87
CB0354	1.5	-2	2.500	95.73	71.80
CB0397	2	-2.25	3.010	95.71	71.78
CB0016	-2.5	-1.25	2.795	95.61	71.71
CB0015	-2.5	-1	2.693	95.53	71.65
CB0082	-1.75	-2	2.658	95.44	71.58
CB0335	1.25	-2.5	2.795	95.35	71.51
CB0381	2	1.75	2.658	95.35	71.51
CB0060	-2	-1.75	2.658	94.82	71.12
CB0083	-1.75	-2.25	2.850	94.73	71.05
CB0105	-1.5	-2.5	2.915	94.72	71.04

2.5km

CB0148	-0.75	2.5	2.610	94.51	70.88
CB0414	2.25	-1.25	2.574	94.29	70.72
CB0147	-1	-2.5	2.693	94.18	70.64
CB0435	2.5	-1.25	2.795	94.17	70.63
CB0402	2.25	1.75	2.850	93.27	69.95
CB0380	2	2	2.828	93.05	69.79
CB0428	2.5	0.5	2.550	92.76	69.57
CB0357	1.75	2.5	3.052	92.64	69.48
CB0424	2.5	1.5	2.915	92.56	69.42
CB0403	2.25	1.5	2.704	92.44	69.33
CB0106	-1.25	2.5	2.795	92.3	69.23
CB0003	-2.5	2	3.202	92.1	69.08
CB0039	-2.25	-1.75	2.850	91.59	68.69
CB0023	-2.25	2.25	3.182	91.53	68.65
CB0416	2.25	-1.75	2.850	91.08	68.31
CB0433	2.5	-0.75	2.610	90.65	67.99
CB0044	-2	2.25	3.010	90.42	67.82
CB0378	2	2.5	3.202	90.41	67.81
CB0065	-1.75	2.25	2.850	90.24	67.68
CB0333	1.25	-2	2.358	89.51	67.13
CB0168	-0.75	-2.5	2.610	89.45	67.09
CB0379	2	2.25	3.010	89.41	67.06
CB0418	2.25	-2.25	3.182	89.09	66.82
CB0024	-2.25	2	3.010	88.95	66.71
CB0041	-2.25	-2.25	3.182	88.91	66.68
CB0417	2.25	-2	3.010	88.75	66.56
CB0167	-0.75	-2.25	2.372	88.52	66.39
CB0419	2.25	-2.5	3.363	88.33	66.25
CB0062	-2	-2.25	3.010	86.41	64.81
CB0334	1.25	-2.25	2.574	86.39	64.79
CB0064	-1.75	2.5	3.052	86.3	64.73
CB0434	2.5	-1	2.693	86.26	64.70
CB0423	2.5	1.75	3.052	85.93	64.45
CB0085	-1.5	2.5	2.915	85.66	64.25
CB0438	2.5	-2	3.202	85.65	64.24
CB0436	2.5	-1.5	2.915	85.29	63.97
CB0422	2.5	2	3.202	85.21	63.91
CB0063	-2	-2.5	3.202	85.15	63.86
CB0084	-1.75	-2.5	3.052	85.05	63.79
CB0336	1.5	2.5	2.915	84.66	63.50
CB0376	1.75	-2.25	2.850	84.22	63.17
CB0022	-2.25	2.5	3.363	84.06	63.05
CB0001	-2.5	2.5	3.536	83.95	62.96
CB0400	2.25	2.25	3.182	83.88	62.91
CB0401	2.25	2	3.010	83.57	62.68
CB0040	-2.25	-2	3.010	83.01	62.26
CB0415	2.25	-1.5	2.704	82.59	61.94

2.5km

CB0399	2.25	2.5	3.363	82.18	61.64
CB0189	-0.5	-2.5	2.550	81.44	61.08
CB0440	2.5	-2.5	3.536	81.43	61.07
CB0043	-2	2.5	3.202	81.34	61.01
CB0021	-2.5	-2.5	3.536	80.94	60.71
CB0042	-2.25	-2.5	3.363	80.17	60.13
CB0439	2.5	-2.25	3.363	80.02	60.02
CB0437	2.5	-1.75	3.052	79.55	59.66
CB0002	-2.5	2.25	3.363	78.88	59.16
CB0004	-2.5	1.75	3.052	78.71	59.03
CB0398	2	-2.5	3.202	78.65	58.99
CB0019	-2.5	-2	3.202	78.47	58.85
CB0356	1.5	-2.5	2.915	77.72	58.29
CB0420	2.5	2.5	3.536	76.27	57.20
CB0421	2.5	2.25	3.363	74.56	55.92
CB0020	-2.5	-2.25	3.363	72.8	54.60
CB0377	1.75	-2.5	3.052	63.97	47.98
CB0355	1.5	-2.25	2.704	63.95	47.96

Maximum distance of grid 3.536 km

Distance to compliance 1.904 km

ARM used to convert NOx to NO2

Receptor grid based on 200-m spacing out to 2 km east, west, north and south of vessel

Cable Laying

NO₂

1-hr NAAQS	188 ug/m ³	
1-hr Background	88 ug/m ³	
Allowable Modeled to meet NAAQS	100 ug/m ³	
Maximum distance to Allowable Modeled	1904 meters	
Approach and exit distance (high conc. area)	3808 meters	
	4000 meters	round up to next kilometer
Cable Laying Speed	300 ft/hr	
	91.44 m/hr	
Time duration	43.74 hours	
Hrs per day operation	24 hrs/day	
	1.82 days	
	2 calendar days/pass	
# Passes	2 passes	
Total duration of activity within high conc. area	4 calendar days	

SO₂

NO _x emission rate	43.6 lb/hr	5.49 g/sec
SO ₂ emission rate	0.146 lb/hr	0.018 g/sec
Maximum 1-hr NO _x concentration	1124.52 ug/m ³	
Maximum 1-hr SO ₂ concentration	3.69 ug/m ³	

Transit Sources

Vessel Speed	8 knots	
	1853.2 meters/hr = 1 knot	
1-hr vessel travel distance	14825.6 meters	
2008 Source Separation	487 meters	page 2, report
Travel time from source to source	0.032849 hours	
NOx emission rate	118.77 lb/hr	
within source	3.901427 lb/hr	
	0.49158 g/sec	
SO2 emission rate	1.786 lb/hr	
within source	0.058668 lb/hr	
	0.007392 g/sec	
Maximum 1-hr NOx concentration (from OCD output)	100.78 ug/m3	at (0,-0.1)
Maximum 1-hr SO2 concentration	1.52 ug/m3	
8th high daily max 1-hr NOx (from ANALYSIS output)	58.6 ug/m3	at (0.1, -0.1)
8th high daily max 1-hr NO2	43.95 ug/m3	
ARM used for NOx to NO2 conversion		