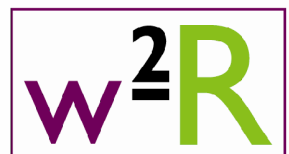


Appendix 6.4

Modelled Concentrations At Specified Locations





APPENDIX 6.4: MODELLED CONCENTRATIONS AT SPECIFIED LOCATIONS

The modelled process contribution values (i.e. maximum concentrations due to emissions from the proposed facility) at the individual locations considered in the study are set out in this appendix.



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Table A6.4.1 : Modelled Results at Specified Locations (Locations 1 to 18) (inclined stack)

Substance	Averaging period	Wood View	Deeppure Cottages	Deeppure Farm W	Deeppure Farm E	Station Rd/Straight Mile	Oak Lea	Straight Mile Farm	Calf Heath	Aspley Farm	Public house, Station Drive	Station Drive	Woodside Farm	Towpath 1	Towpath 2	Industrial Estate 1	Industrial Estate 2	Industrial Estate 3	Industrial Estate 4
Particulate matter	Annual mean	0.13	0.01	0.03	0.03	0.13	0.07	0.04	0.04	0.03	0.03	0.02	0.10	0.02	0.04	0.00128	0.00070	0.00038	0.00034
Particulate matter	90.4th percentile of 24 hour means	0.52	0.02	0.11	0.10	0.42	0.24	0.13	0.14	0.09	0.09	0.06	0.32	0.06	0.15	0.00011	0.00001	0.00000	0.00000
Volatile organic compounds	Annual mean	0.13	0.01	0.03	0.03	0.13	0.07	0.04	0.04	0.03	0.03	0.02	0.10	0.02	0.04	0.00128	0.00070	0.00038	0.00034
Volatile organic compounds	Maximum 1 hour mean	5.7	2.8	2.6	2.4	3.9	3.3	1.9	1.3	1.9	1.9	2.1	2.7	3.2	2.1	2.5	2.1	1.6	1.3
Hydrogen chloride	Annual mean	0.13	0.01	0.03	0.03	0.13	0.07	0.04	0.04	0.03	0.03	0.02	0.10	0.02	0.04	0.00128	0.00070	0.00038	0.00034
Hydrogen chloride	Maximum 1 hour mean	17.1	8.5	7.7	7.2	11.7	9.8	5.7	3.8	5.7	5.7	6.4	8.0	9.6	6.4	7.6	6.3	4.7	3.8
Hydrogen fluoride	Maximum 1 hour mean	1.14	0.56	0.51	0.48	0.78	0.65	0.38	0.26	0.38	0.38	0.43	0.54	0.64	0.42	0.51	0.42	0.31	0.25
Sulphur dioxide	Annual mean	0.66	0.04	0.15	0.14	0.63	0.34	0.21	0.20	0.13	0.13	0.08	0.49	0.09	0.21	0.00638	0.00349	0.00192	0.00171
Sulphur dioxide	99.9th percentile of 15 minute means	58	23	31	29	45	37	23	15	24	24	25	35	28	25	9.5	4.4	2.0	1.9
Sulphur dioxide	99.7th percentile of 1 hour means	39	11	21	20	31	25	15	11	17	17	15	25	15	16	2.18	0.92	0.50	0.44
Sulphur dioxide	99.2nd percentile of 24 hour means	24	3	9	8	16	10	5	5	8	8	6	13	5	6	1.02	0.41	0.23	0.30



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Substance	Averaging period	Wood View	Deeppure Cottages	Deeppure Farm W	Deeppure Farm E	Station Rd/Straight Mile	Oak Lea	Straight Mile Farm	Cafr Heath	Aspley Farm	Public house, Station Drive	Station Drive	Woodside Farm	Towpath 1	Towpath 2	Industrial Estate 1	Industrial Estate 2	Industrial Estate 3	Industrial Estate 4
Nitrogen dioxide	Annual mean	1.9	0.1	0.4	0.4	1.8	0.9	0.6	0.6	0.4	0.4	0.2	1.4	0.3	0.6	0.0179	0.0098	0.0054	0.0048
Nitrogen dioxide	99.8th percentile of 1 hour means	27.5	9.7	15.2	14.4	22.2	17.6	10.8	7.9	12.3	12.3	11.8	17.5	11.0	12.1	2.9	1.01	0.49	0.48
Cadmium	Annual mean	0.00066	0.00004	0.00015	0.00014	0.00063	0.00034	0.00021	0.00020	0.00013	0.00013	0.00008	0.00049	0.00009	0.00021	0.0000064	0.0000035	0.0000019	0.0000017
Cadmium	Maximum 1 hour mean	0.0142	0.0070	0.0064	0.0060	0.0098	0.0082	0.0048	0.0032	0.0048	0.0048	0.0053	0.0067	0.0080	0.0053	0.0063	0.0052	0.0039	0.0032
Thallium	Annual mean	0.0007	0.0000	0.0002	0.0001	0.0006	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0005	0.0001	0.0002	0.0000064	0.0000035	0.0000019	0.0000017
Thallium	Maximum 1 hour mean	0.0142	0.0070	0.0064	0.0060	0.0098	0.0082	0.0048	0.0032	0.0048	0.0048	0.0053	0.0067	0.0080	0.0053	0.0063	0.0052	0.0039	0.0032
Mercury	Annual mean	0.0007	0.0000	0.0002	0.0001	0.0006	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001	0.0005	0.0001	0.0002	0.0000064	0.0000035	0.0000019	0.0000017
Mercury	Maximum 1 hour mean	0.0142	0.0070	0.0064	0.0060	0.0098	0.0082	0.0048	0.0032	0.0048	0.0048	0.0053	0.0067	0.0080	0.0053	0.0063	0.0052	0.0039	0.0032
Antimony	Annual mean	0.0016	0.0001	0.0004	0.0003	0.0015	0.0008	0.0005	0.0005	0.0003	0.0003	0.0002	0.0012	0.0002	0.0005	0.0000152	0.0000083	0.0000046	0.0000041
Antimony	Maximum 1 hour mean	0.0339	0.0168	0.0152	0.0143	0.0233	0.0195	0.0113	0.0076	0.0113	0.0113	0.0127	0.0159	0.0190	0.0126	0.0151	0.0124	0.0093	0.0075
Arsenic	Annual mean	0.0015	0.0001	0.0003	0.0003	0.0014	0.0007	0.0005	0.0004	0.0003	0.0003	0.0002	0.0011	0.0002	0.0005	0.0000140	0.0000076	0.0000042	0.0000037
Arsenic	Maximum 1 hour mean	0.0311	0.0154	0.0139	0.0132	0.0214	0.0179	0.0104	0.0070	0.0104	0.0104	0.0116	0.0146	0.0175	0.0116	0.0139	0.0114	0.0085	0.0069
Lead	Annual mean	0.0012	0.0001	0.0003	0.0003	0.0012	0.0006	0.0004	0.0004	0.0002	0.0002	0.0001	0.0009	0.0002	0.0004	0.0000120	0.0000065	0.0000036	0.0000032
Chromium (as VI)	Annual mean	0.0016	0.0001	0.0004	0.0003	0.0015	0.0008	0.0005	0.0005	0.0003	0.0003	0.0002	0.0012	0.0002	0.0005	0.0000152	0.0000083	0.0000046	0.0000041
Chromium (as VI)	Maximum 1 hour mean	0.0339	0.0168	0.0152	0.0143	0.0233	0.0195	0.0113	0.0076	0.0113	0.0113	0.0127	0.0159	0.0190	0.0126	0.0151	0.0124	0.0093	0.0075
Cobalt	Annual mean	0.0016	0.0001	0.0004	0.0003	0.0015	0.0008	0.0005	0.0005	0.0003	0.0003	0.0002	0.0012	0.0002	0.0005	0.0000152	0.0000083	0.0000046	0.0000041



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Substance	Averaging period	Wood View	Deepmore Cottages	Deepmore Farm W	Deepmore Farm E	Station Rd/Straight Mile	Oak Lea	Straight Mile Farm	Cafr Heath	Aspley Farm	Public house, Station Drive	Station Drive	Woodside Farm	Towpath 1	Towpath 2	Industrial Estate 1	Industrial Estate 2	Industrial Estate 3	Industrial Estate 4
Cobalt	Maximum 1 hour mean	0.0339	0.0168	0.0152	0.0143	0.0233	0.0195	0.0113	0.0076	0.0113	0.0113	0.0127	0.0159	0.0190	0.0126	0.0151	0.0124	0.0093	0.0075
Copper	Annual mean	0.0026	0.0002	0.0006	0.0005	0.0024	0.0013	0.0008	0.0008	0.0005	0.0005	0.0003	0.0019	0.0004	0.0008	0.0000245	0.0000134	0.0000074	0.0000066
Copper	Maximum 1 hour mean	0.055	0.027	0.025	0.023	0.038	0.031	0.018	0.012	0.018	0.018	0.020	0.026	0.031	0.020	0.0244	0.0201	0.0150	0.0122
Manganese	Annual mean	0.0015	0.0001	0.0003	0.0003	0.0014	0.0007	0.0005	0.0004	0.0003	0.0003	0.0002	0.0011	0.0002	0.0005	0.0000140	0.0000076	0.0000042	0.0000037
Manganese	Maximum 24 hour mean	0.0172	0.0035	0.0078	0.0073	0.0144	0.0084	0.0038	0.0037	0.0074	0.0074	0.0060	0.0114	0.0048	0.0049	0.0025	0.0015	0.0009	0.0006
Nickel	Annual mean	0.0025	0.0002	0.0006	0.0005	0.0023	0.0013	0.0008	0.0008	0.0005	0.0005	0.0003	0.0019	0.0003	0.0008	0.0000239	0.0000131	0.0000072	0.0000064
Nickel	Maximum 1 hour mean	0.0534	0.0264	0.0239	0.0226	0.0366	0.0307	0.0179	0.0120	0.0179	0.0179	0.0199	0.0251	0.0299	0.0198	0.0238	0.0196	0.0146	0.0119
Vanadium	Annual mean	0.0037	0.0002	0.0008	0.0008	0.0035	0.0019	0.0012	0.0011	0.0007	0.0007	0.0004	0.0027	0.0005	0.0012	0.0000355	0.0000194	0.0000107	0.0000095
Vanadium	Maximum 24 hour mean	0.044	0.009	0.020	0.018	0.037	0.021	0.010	0.010	0.019	0.019	0.015	0.029	0.012	0.012	0.00644	0.00371	0.00239	0.00148
Dioxins and furans	Annual mean	1.3×10^{-9}	8.5×10^{-11}	3.0×10^{-10}	2.8×10^{-10}	1.3×10^{-9}	6.8×10^{-10}	4.2×10^{-10}	4.1×10^{-10}	2.5×10^{-10}	2.5×10^{-10}	1.6×10^{-10}	9.9×10^{-10}	1.8×10^{-10}	4.3×10^{-10}	1.3×10^{-11}	7.0×10^{-12}	3.8×10^{-12}	3.4×10^{-12}
Carbon monoxide	Maximum 8 hour mean	17.6	4.8	9.4	8.3	14.5	9.4	8.6	4.9	7.8	7.8	7.5	10.7	9.0	9.6	5.1	2.9	1.7	1.3
Ammonia	Annual mean	0.133	0.009	0.030	0.028	0.125	0.068	0.042	0.041	0.025	0.025	0.016	0.099	0.018	0.043	0.00128	0.00070	0.00038	0.00034
Ammonia	Maximum 1 hour mean	2.85	1.41	1.28	1.20	1.95	1.64	0.95	0.64	0.95	0.95	1.06	1.34	1.60	1.06	1.27	1.04	0.78	0.63
BaP	Annual mean	3.3E-6	2.1×10^{-7}	7.6×10^{-7}	7.0×10^{-7}	3.1E-6	1.7E-6	1.1E-6	1.0E-6	6.3×10^{-7}	6.3×10^{-7}	3.9×10^{-7}	2.5E-6	4.6×10^{-7}	1.1E-6	3.2×10^{-8}	1.7×10^{-8}	9.6×10^{-9}	8.5×10^{-9}



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Table A6.4.2 : Modelled Results at Specified Locations (Locations 19 to 35) (inclined stack)

Substance	Averaging period	Industrial Estate 5	Industrial Estate 6	Industrial Estate 7	Industrial Estate 8	Industrial Estate 9	Industrial Estate 10	Industrial Estate 11	Industrial Estate 12	Industrial Estate 13	Industrial Estate 14	Industrial Estate 15 (monitoring station)	Industrial Estate 16 (north of road)	Industrial Estate 17 (Veolia)	Site to north 1	Site to north 2	Site to north 3	Site to north 4
Particulate matter	Annual mean	0.00038	0.00015	0.00013	0.005	0.005	0.004	0.003	0.002	0.010	0.012	0.0090	0.0119	0.0105	0.0000084	0.00000054	0.000074	0.0014
Particulate matter	90.4th percentile of 24 hour means	0.00000	0.00000	0.00002	0.004	0.003	0.003	0.001	0.003	0.022	0.043	0.025	0.048	0.025	0.000000021	0.0000000004	0.000029	0.0042
Volatile organic compounds	Annual mean	0.00038	0.00015	0.00013	0.005	0.005	0.004	0.003	0.002	0.010	0.012	0.0090	0.0119	0.0105	0.0000084	0.00000054	0.000074	0.0014
Volatile organic compounds	Maximum 1 hour mean	1.1	0.6	0.8	3.2	3.1	3.3	3.2	2.2	2.7	2.3	2.8	2.7	3.4	0.065	0.0068	1.01	1.5
Hydrogen chloride	Annual mean	0.00038	0.00015	0.00013	0.00497	0.00453	0.00427	0.00337	0.00218	0.00965	0.01234	0.00900	0.01191	0.01049	0.0000084	0.00000054	0.000074	0.0014
Hydrogen chloride	Maximum 1 hour mean	3.2	1.7	2.5	9.6	9.2	9.9	9.5	6.6	8.0	7.0	8.5	8.1	10.2	0.19	0.020	3.0	4.6
Hydrogen fluoride	Maximum 1 hour mean	0.21	0.11	0.17	0.64	0.61	0.66	0.64	0.44	0.53	0.46	0.57	0.54	0.68	0.013	0.0014	0.20	0.31
Sulphur dioxide	Annual mean	0.00188	0.00077	0.00063	0.025	0.023	0.021	0.017	0.011	0.048	0.062	0.045	0.060	0.052	0.000042	0.0000027	0.00037	0.0071
Sulphur dioxide	99.9th percentile of 15 minute means	2.6	1.2	0.7	27	27	27	22	11	30	27	30	29	35	0.028	0.00028	0.36	3.4
Sulphur dioxide	99.7th percentile of 1 hour means	0.45	0.04	0.09	11	11	9	7	4	17	16	16	17	18	0.00037	0.0000059	0.057	1.2
Sulphur dioxide	99.2nd percentile of 24 hour means	0.39	0.19	0.11	4.0	4	3	2	1.4	5	5	5	5	5	0.0079	0.00050	0.059	0.41
Nitrogen dioxide	Annual mean	0.0053	0.0022	0.0018	0.07	0.06	0.06	0.05	0.030	0.14	0.2	0.1	0.2	0.15	0.00012	0.0000075	0.00103	0.020
Nitrogen dioxide	99.8th percentile of	0.72	0.11	0.1	10.6	10.1	9.4	7.2	3.8	13.0	12.3	12.3	13.7	14.9	0.0013	0.000016	0.093	0.94



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Substance	Averaging period	Industrial Estate 5	Industrial Estate 6	Industrial Estate 7	Industrial Estate 8	Industrial Estate 9	Industrial Estate 10	Industrial Estate 11	Industrial Estate 12	Industrial Estate 13	Industrial Estate 14	Industrial Estate 15 (monitoring station)	Industrial Estate 16 (north of road)	Industrial Estate 17 (Veolia)	Site to north 1	Site to north 2	Site to north 3	Site to north 4
	1 hour means																	
Cadmium	Annual mean	0.0000019	0.0000008	0.0000006	0.000002	0.000002	0.000002	0.000002	0.000001	0.000005	0.000006	0.000005	0.000006	0.000005	0.000000042	0.000000027	0.000000037	0.0000071
Cadmium	Maximum 1 hour mean	0.0026	0.0014	0.0021	0.0080	0.0076	0.0082	0.0079	0.0055	0.0066	0.0058	0.0071	0.0068	0.0085	0.00016	0.000017	0.0025	0.0039
Thallium	Annual mean	0.0000019	0.0000008	0.0000006	0.0000	0.000002	0.000002	0.000002	0.000001	0.000005	0.000006	0.000005	0.000006	0.000005	0.000000042	0.000000027	0.000000037	0.0000071
Thallium	Maximum 1 hour mean	0.0026	0.0014	0.0021	0.0080	0.0076	0.0082	0.0079	0.0055	0.0066	0.0058	0.0071	0.0068	0.0085	0.00016	0.000017	0.0025	0.0039
Mercury	Annual mean	0.0000019	0.0000008	0.0000006	0.0000	0.000002	0.000002	0.000002	0.000001	0.000005	0.000006	0.000005	0.000006	0.000005	0.000000042	0.000000027	0.000000037	0.0000071
Mercury	Maximum 1 hour mean	0.0026	0.0014	0.0021	0.0080	0.0076	0.0082	0.0079	0.0055	0.0066	0.0058	0.0071	0.0068	0.0085	0.00016	0.000017	0.0025	0.0039
Antimony	Annual mean	0.0000045	0.0000018	0.0000015	0.0001	0.000005	0.000005	0.000004	0.000003	0.000011	0.000015	0.000011	0.000014	0.000012	0.000000100	0.000000064	0.000000088	0.0000017
Antimony	Maximum 1 hour mean	0.0063	0.0033	0.0050	0.0191	0.018	0.020	0.019	0.013	0.016	0.014	0.017	0.016	0.020	0.00039	0.000041	0.0060	0.0092
Arsenic	Annual mean	0.0000041	0.0000017	0.0000014	0.0001	0.000005	0.000005	0.000004	0.000002	0.000011	0.000014	0.000010	0.000013	0.000011	0.000000092	0.000000059	0.000000081	0.0000015
Arsenic	Maximum 1 hour mean	0.0058	0.0031	0.0045	0.0176	0.017	0.018	0.017	0.012	0.014	0.013	0.015	0.015	0.019	0.00035	0.000037	0.0055	0.0084
Lead	Annual mean	0.0000035	0.0000014	0.0000012	0.0000	0.000004	0.000004	0.000003	0.000002	0.000009	0.000012	0.000008	0.000011	0.000010	0.000000079	0.000000050	0.000000069	0.0000013
Chromium (as VI)	Annual mean	0.0000045	0.0000018	0.0000002	0.0001	0.000005	0.000005	0.000004	0.000003	0.000011	0.000015	0.000011	0.000014	0.000012	0.000000100	0.000000064	0.000000088	0.0000017
Chromium (as VI)	Maximum 1 hour mean	0.0063	0.0033	0.0050	0.0191	0.018	0.020	0.019	0.013	0.016	0.014	0.017	0.016	0.020	0.00039	0.000041	0.0060	0.0092
Cobalt	Annual mean	0.0000045	0.0000018	0.0000002	0.0001	0.000005	0.000005	0.000004	0.000003	0.000011	0.000015	0.000011	0.000014	0.000012	0.000000100	0.000000064	0.000000088	0.0000017
Cobalt	Maximum 1 hour mean	0.0063	0.0033	0.0050	0.0191	0.018	0.020	0.019	0.013	0.016	0.014	0.017	0.016	0.020	0.00039	0.000041	0.0060	0.0092
Copper	Annual mean	0.0000072	0.0000030	0.0000002	0.0001	0.000009	0.000008	0.000006	0.000004	0.000019	0.000024	0.000017	0.000023	0.000020	0.000000016	0.0000000103	0.000000014	0.0000027
Copper	Maximum 1 hour mean	0.0101	0.0054	0.0080	0.031	0.029	0.032	0.031	0.021	0.025	0.022	0.027	0.026	0.033	0.00062	0.000066	0.0097	0.015
Manganese	Annual mean	0.0000041	0.0000017	0.0000001	0.0001	0.000005	0.000005	0.000004	0.000002	0.000011	0.000014	0.000010	0.000013	0.000011	0.000000092	0.000000059	0.000000081	0.0000015
Manganese	Maximum	0.0006	0.0004	0.0003	0.0066	0.006	0.004	0.003	0.002	0.010	0.007	0.007	0.006	0.006	0.000041	0.0000020	0.00029	0.0012



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Substance	Averaging period	Industrial Estate 5	Industrial Estate 6	Industrial Estate 7	Industrial Estate 8	Industrial Estate 9	Industrial Estate 10	Industrial Estate 11	Industrial Estate 12	Industrial Estate 13	Industrial Estate 14	Industrial Estate 15 (monitoring station)	Industrial Estate 16 (north of road)	Industrial Estate 17 (Veolia)	Site to north 1	Site to north 2	Site to north 3	Site to north 4
	24 hour mean																	
Nickel	Annual mean	0.0000071	0.0000029	0.000002	0.0001	0.00008	0.00008	0.00006	0.00004	0.00018	0.00023	0.00017	0.00022	0.00020	0.00000016	0.00000001	0.0000014	0.000026
Nickel	Maximum 1 hour mean	0.0099	0.0052	0.008	0.0301	0.029	0.031	0.030	0.021	0.025	0.022	0.027	0.025	0.032	0.0006	0.0001	0.009	0.014
Vanadium	Annual mean	0.0000104	0.0000043	0.000004	0.0001	0.00013	0.00012	0.00009	0.00006	0.00027	0.00034	0.00025	0.00033	0.00029	0.00000023	0.00000001	0.0000020	0.000039
Vanadium	Maximum 24 hour mean	0.00152	0.00093	0.0008	0.017	0.016	0.011	0.008	0.005	0.025	0.017	0.017	0.016	0.015	0.000105	0.000005	0.0007	0.0031
Dioxins and furans	Annual mean	3.8×10^{-12}	1.5×10^{-12}	1.3×10^{-12}	5.0×10^{-11}	4.5×10^{-11}	4.3×10^{-11}	3.4×10^{-11}	2.2×10^{-11}	9.7×10^{-11}	1.2×10^{-10}	9.0×10^{-11}	1.2×10^{-10}	1.0×10^{-10}	8.4×10^{-14}	5.4×10^{-15}	7.4×10^{-13}	1.4×10^{-11}
Carbon monoxide	Maximum 8 hour mean	1.2	1.0	0.7	7.2	7.0	7.5	6.6	3.6	8.2	7.4	8.6	9.9	9.1	0.041	0.004	0.6	1.8
Ammonia	Annual mean	0.00038	0.00015	0.00013	0.005	0.005	0.004	0.003	0.002	0.010	0.012	0.009	0.012	0.010	0.000008	0.0000005	0.00007	0.0014
Ammonia	Maximum 1 hour mean	0.53	0.28	0.42	1.61	1.53	1.64	1.59	1.10	1.33	1.16	1.41	1.35	1.69	0.032	0.003	0.50	0.77
BaP	Annual mean	9.4×10^{-9}	3.9×10^{-9}	3.2×10^{-9}	1.2×10^{-7}	1.1×10^{-7}	1.1×10^{-7}	8.4×10^{-8}	5.4×10^{-8}	2.4×10^{-7}	3.1×10^{-7}	2.3×10^{-7}	3.0×10^{-7}	2.6×10^{-7}	2.1×10^{-10}	1.3×10^{-11}	1.8×10^{-9}	3.5×10^{-8}

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Table A6.4.3 : Modelled Results at Specified Locations (Locations 1 to 18) (vertical stack)

Substance	Averaging period	Wood View	Deeprnore Cottages	Deeprmore Farm W	Deeprmore Farm E	Station Rd/Straight Mile	Oak Lea	Straight Mile Farm	Calf Heath	Aspley Farm	Public house, Station Drive	Station Drive	Woodside Farm	Towpath 1	Towpath 2	Industrial Estate 1	Industrial Estate 2	Industrial Estate 3	Industrial Estate 4
Particulate matter	Annual mean	0.12	0.01	0.03	0.03	0.14	0.13	0.07	0.05	0.03	0.03	0.02	0.10	0.02	0.10	0.00176	0.00102	0.00073	0.00057
Particulate matter	90.4th percentile of 24 hour means	0.48	0.03	0.10	0.09	0.46	0.46	0.24	0.15	0.10	0.10	0.06	0.33	0.05	0.32	0.00077	0.00021	0.00015	0.00005
Volatile organic compounds	Annual mean	0.12	0.01	0.03	0.03	0.14	0.13	0.07	0.05	0.03	0.03	0.02	0.10	0.02	0.10	0.00176	0.00102	0.00073	0.00057
Volatile organic compounds	Maximum 1 hour mean	5.2	2.9	2.6	2.4	4.0	3.3	2.3	1.6	2.0	2.0	2.3	2.8	3.4	2.6	2.4	1.9	1.4	1.0
Hydrogen chloride	Annual mean	0.12	0.01	0.03	0.03	0.14	0.13	0.07	0.05	0.03	0.03	0.02	0.10	0.02	0.10	0.00176	0.00102	0.00073	0.00057
Hydrogen chloride	Maximum 1 hour mean	15.5	8.6	7.7	7.2	12.1	10.0	6.9	4.7	6.0	6.0	6.8	8.5	10.1	7.8	7.2	5.6	4.1	3.0
Hydrogen fluoride	Maximum 1 hour mean	1.04	0.58	0.51	0.48	0.81	0.67	0.46	0.32	0.40	0.40	0.45	0.57	0.67	0.52	0.48	0.37	0.27	0.20
Sulphur dioxide	Annual mean	0.62	0.05	0.14	0.13	0.69	0.65	0.36	0.24	0.13	0.13	0.09	0.51	0.08	0.49	0.00878	0.00508	0.00366	0.00283
Sulphur dioxide	99.9th percentile of 15 minute means	56	20	30	28	46	41	29	18	25	25	27	36	23	33	12.2	5.9	5.3	4.2
Sulphur dioxide	99.7th percentile of 1 hour means	39	10	21	20	32	29	21	13	17	17	17	26	13	24	3.40	1.92	1.47	1.08
Sulphur dioxide	99.2nd percentile of 24 hour means	25	3	8	7	17	19	10	6	7	7	7	13	5	12	1.25	0.69	0.52	0.49



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Substance	Averaging period	Wood View	Deeptime Cottages	Deeptime Farm W	Deeptime Farm E	Station Rd/Straight Mile	Oak Lea	Straight Mile Farm	Cafr Heath	Aspley Farm	Public house, Station Drive	Station Drive	Woodside Farm	Towpath 1	Towpath 2	Industrial Estate 1	Industrial Estate 2	Industrial Estate 3	Industrial Estate 4
Nitrogen dioxide	Annual mean	1.7	0.1	0.4	0.4	1.9	1.8	1.0	0.7	0.4	0.4	0.3	1.4	0.2	1.4	0.0246	0.0142	0.0102	0.0079
Nitrogen dioxide	99.8th percentile of 1 hour means	28.2	9.0	15.0	14.1	23.1	20.2	15.1	9.3	12.4	12.4	12.9	18.4	9.8	16.8	3.1	2.38	1.62	1.21
Cadmium	Annual mean	0.00062	0.00005	0.00014	0.00013	0.00069	0.00065	0.00036	0.00024	0.00013	0.00013	0.00009	0.00051	0.00008	0.00049	0.0000088	0.0000051	0.0000037	0.0000028
Cadmium	Maximum 1 hour mean	0.0129	0.0072	0.0064	0.0060	0.0101	0.0083	0.0057	0.0039	0.0050	0.0050	0.0056	0.0071	0.0084	0.0065	0.0060	0.0046	0.0034	0.0025
Thallium	Annual mean	0.0006	0.0000	0.0001	0.0001	0.0007	0.0007	0.0004	0.0002	0.0001	0.0001	0.0001	0.0005	0.0001	0.0005	0.0000088	0.0000051	0.0000037	0.0000028
Thallium	Maximum 1 hour mean	0.0129	0.0072	0.0064	0.0060	0.0101	0.0083	0.0057	0.0039	0.0050	0.0050	0.0056	0.0071	0.0084	0.0065	0.0060	0.0046	0.0034	0.0025
Mercury	Annual mean	0.0006	0.0000	0.0001	0.0001	0.0007	0.0007	0.0004	0.0002	0.0001	0.0001	0.0001	0.0005	0.0001	0.0005	0.0000088	0.0000051	0.0000037	0.0000028
Mercury	Maximum 1 hour mean	0.0129	0.0072	0.0064	0.0060	0.0101	0.0083	0.0057	0.0039	0.0050	0.0050	0.0056	0.0071	0.0084	0.0065	0.0060	0.0046	0.0034	0.0025
Antimony	Annual mean	0.0015	0.0001	0.0003	0.0003	0.0016	0.0016	0.0008	0.0006	0.0003	0.0003	0.0002	0.0012	0.0002	0.0012	0.0000209	0.0000121	0.0000087	0.0000067
Antimony	Maximum 1 hour mean	0.0308	0.0171	0.0152	0.0144	0.0240	0.0199	0.0136	0.0094	0.0119	0.0119	0.0134	0.0169	0.0200	0.0155	0.0143	0.0111	0.0081	0.0060
Arsenic	Annual mean	0.0013	0.0001	0.0003	0.0003	0.0015	0.0014	0.0008	0.0005	0.0003	0.0003	0.0002	0.0011	0.0002	0.0011	0.0000192	0.0000111	0.0000080	0.0000062
Arsenic	Maximum 1 hour mean	0.0283	0.0157	0.0140	0.0132	0.0221	0.0183	0.0125	0.0086	0.0109	0.0109	0.0123	0.0155	0.0184	0.0142	0.0131	0.0102	0.0074	0.0055
Lead	Annual mean	0.0012	0.0001	0.0003	0.0002	0.0013	0.0012	0.0007	0.0004	0.0002	0.0002	0.0002	0.0010	0.0001	0.0009	0.0000165	0.0000095	0.0000069	0.0000053
Chromium (as VI)	Annual mean	0.0015	0.0001	0.0003	0.0003	0.0016	0.0016	0.0008	0.0006	0.0003	0.0003	0.0002	0.0012	0.0002	0.0012	0.0000209	0.0000121	0.0000087	0.0000067
Chromium (as VI)	Maximum 1 hour mean	0.0308	0.0171	0.0152	0.0144	0.0240	0.0199	0.0136	0.0094	0.0119	0.0119	0.0134	0.0169	0.0200	0.0155	0.0143	0.0111	0.0081	0.0060
Cobalt	Annual mean	0.0015	0.0001	0.0003	0.0003	0.0016	0.0016	0.0008	0.0006	0.0003	0.0003	0.0002	0.0012	0.0002	0.0012	0.0000209	0.0000121	0.0000087	0.0000067



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Substance	Averaging period	Wood View	Deeppure Cottages	Deeppure Farm W	Deeppure Farm E	Station Rd/Straight Mile	Oak Lea	Straight Mile Farm	Cafr Heath	Aspley Farm	Public house, Station Drive	Station Drive	Woodside Farm	Towpath 1	Towpath 2	Industrial Estate 1	Industrial Estate 2	Industrial Estate 3	Industrial Estate 4
Cobalt	Maximum 1 hour mean	0.0308	0.0171	0.0152	0.0144	0.0240	0.0199	0.0136	0.0094	0.0119	0.0119	0.0134	0.0169	0.0200	0.0155	0.0143	0.0111	0.0081	0.0060
Copper	Annual mean	0.0024	0.0002	0.0005	0.0005	0.0026	0.0025	0.0014	0.0009	0.0005	0.0005	0.0004	0.0019	0.0003	0.0019	0.0000338	0.0000195	0.0000141	0.0000109
Copper	Maximum 1 hour mean	0.050	0.028	0.025	0.023	0.039	0.032	0.022	0.015	0.019	0.019	0.022	0.027	0.032	0.025	0.0231	0.0179	0.0131	0.0097
Manganese	Annual mean	0.0013	0.0001	0.0003	0.0003	0.0015	0.0014	0.0008	0.0005	0.0003	0.0003	0.0002	0.0011	0.0002	0.0011	0.0000192	0.0000111	0.0000080	0.0000062
Manganese	Maximum 24 hour mean	0.0184	0.0031	0.0072	0.0068	0.0154	0.0127	0.0074	0.0047	0.0074	0.0074	0.0061	0.0114	0.0044	0.0104	0.0024	0.0014	0.0009	0.0007
Nickel	Annual mean	0.0023	0.0002	0.0005	0.0005	0.0026	0.0025	0.0013	0.0009	0.0005	0.0005	0.0003	0.0019	0.0003	0.0018	0.0000329	0.0000191	0.0000137	0.0000106
Nickel	Maximum 1 hour mean	0.0485	0.0270	0.0240	0.0226	0.0378	0.0313	0.0215	0.0148	0.0187	0.0187	0.0212	0.0266	0.0315	0.0244	0.0225	0.0174	0.0128	0.0095
Vanadium	Annual mean	0.0034	0.0003	0.0008	0.0007	0.0038	0.0036	0.0020	0.0013	0.0007	0.0007	0.0005	0.0028	0.0004	0.0027	0.0000488	0.0000282	0.0000203	0.0000157
Vanadium	Maximum 24 hour mean	0.047	0.008	0.018	0.017	0.039	0.032	0.019	0.012	0.019	0.019	0.015	0.029	0.011	0.027	0.00612	0.00345	0.00221	0.00169
Dioxins and furans	Annual mean	1.2×10^{-9}	9.0×10^{-11}	2.8×10^{-10}	2.6×10^{-10}	1.4×10^{-9}	1.3×10^{-9}	7.1×10^{-10}	4.7×10^{-10}	2.6×10^{-10}	2.6×10^{-10}	1.8×10^{-10}	1.0×10^{-9}	1.5×10^{-10}	9.8×10^{-10}	1.8×10^{-11}	1.0×10^{-11}	7.3×10^{-12}	5.7×10^{-12}
Carbon monoxide	Maximum 8 hour mean	18.3	4.3	9.2	8.0	14.7	12.5	8.5	5.3	7.5	7.5	7.3	10.8	7.0	11.1	4.9	2.7	1.6	1.3
Ammonia	Annual mean	0.123	0.009	0.028	0.026	0.137	0.131	0.071	0.047	0.026	0.026	0.018	0.101	0.015	0.098	0.00176	0.00102	0.00073	0.00057
Ammonia	Maximum 1 hour mean	2.59	1.44	1.28	1.21	2.02	1.67	1.15	0.79	1.00	1.00	1.13	1.42	1.68	1.30	1.20	0.93	0.68	0.51
BaP	Annual mean	3.1E-6	2.3×10^{-7}	7.0×10^{-7}	6.5×10^{-7}	3.4E-6	3.3E-6	1.8E-6	1.2E-6	6.5×10^{-7}	6.5×10^{-7}	4.6×10^{-7}	2.5E-6	3.9×10^{-7}	2.5E-6	4.4×10^{-8}	2.5×10^{-8}	1.8×10^{-8}	1.4×10^{-8}

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Table A6.4.4 : Modelled Results at Specified Locations (Locations 19 to 35) (vertical stack)

Substance	Averaging period	Industrial Estate 5	Industrial Estate 6	Industrial Estate 7	Industrial Estate 8	Industrial Estate 9	Industrial Estate 10	Industrial Estate 11	Industrial Estate 12	Industrial Estate 13	Industrial Estate 14	Industrial Estate 15 (monitoring station)	Industrial Estate 16 (north of road)	Industrial Estate 17 (Veolia)	Site to north 1	Site to north 2	Site to north 3	Site to north 4
Particulate matter	Annual mean	0.00076	0.00031	0.00026	0.015	0.012	0.004	0.003	0.002	0.028	0.018	0.0118	0.0118	0.0090	0.000019	0.000007	0.0002	0.0018
Particulate matter	90.4th percentile of 24 hour means	0.00004	0.00000	0.00002	0.027	0.025	0.005	0.002	0.002	0.064	0.044	0.025	0.044	0.020	0.0000012	0.00000004	0.0001	0.0058
Volatile organic compounds	Annual mean	0.00076	0.00031	0.00026	0.015	0.012	0.004	0.003	0.002	0.028	0.018	0.0118	0.0118	0.0090	0.000019	0.000007	0.0002	0.0018
Volatile organic compounds	Maximum 1 hour mean	1.8	1.5	1.5	3.5	3.6	3.6	3.0	2.0	3.0	2.7	3.1	2.7	3.2	0.1	0.09	1.8	1.9
Hydrogen chloride	Annual mean	0.00076	0.00031	0.00026	0.01452	0.01203	0.00386	0.00295	0.00171	0.02801	0.01797	0.01177	0.01180	0.00897	0.000019	0.000007	0.00016	0.00176
Hydrogen chloride	Maximum 1 hour mean	5.5	4.4	4.4	10.6	10.9	10.8	8.9	6.1	9.0	8.0	9.4	8.0	9.5	0.4	0.3	5.3	5.6
Hydrogen fluoride	Maximum 1 hour mean	0.36	0.30	0.30	0.71	0.73	0.72	0.59	0.40	0.60	0.53	0.63	0.53	0.63	0.026	0.02	0.36	0.37
Sulphur dioxide	Annual mean	0.00380	0.00154	0.00131	0.073	0.060	0.019	0.015	0.009	0.140	0.090	0.059	0.059	0.045	0.00010	0.000036	0.001	0.009
Sulphur dioxide	99.9th percentile of 15 minute means	5.6	1.8	1.6	36	38	24	24	10	37	31	34	27	31	0.11	0.014	0.9	5
Sulphur dioxide	99.7th percentile of 1 hour means	0.93	0.20	0.11	19	20	8	5	3	24	20	18	16	17	0.0087	0.00077	0.1	1.8
Sulphur dioxide	99.2nd percentile of 24 hour means	0.75	0.30	0.11	6.8	6	3	2	1.0	12	8	6	5	4	0.016	0.0053	0.12	0.6
Nitrogen dioxide	Annual mean	0.0106	0.0043	0.0037	0.20	0.17	0.05	0.04	0.024	0.39	0.3	0.2	0.2	0.13	0.00027	0.00010	0.002	0.025
Nitrogen dioxide	99.8th percentile of	1.34	0.45	0.3	15.3	17.5	8.4	6.5	3.1	17.7	15.1	15.4	12.9	13.5	0.014	0.0015	0.1	1.6



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Substance	Averaging period	Industrial Estate 5	Industrial Estate 6	Industrial Estate 7	Industrial Estate 8	Industrial Estate 9	Industrial Estate 10	Industrial Estate 11	Industrial Estate 12	Industrial Estate 13	Industrial Estate 14	Industrial Estate 15 (monitoring station)	Industrial Estate 16 (north of road)	Industrial Estate 17 (Veolia)	Site to north 1	Site to north 2	Site to north 3	Site to north 4
	1 hour means																	
Cadmium	Annual mean	0.0000038	0.0000015	0.0000013	0.00007	0.00006	0.00002	0.00001	0.00001	0.00014	0.00009	0.00006	0.00006	0.00004	0.00000010	0.000000036	0.00000082	0.0000088
Cadmium	Maximum 1 hour mean	0.0045	0.0037	0.0037	0.0088	0.0091	0.0090	0.0074	0.0051	0.0075	0.0066	0.0078	0.0067	0.0079	0.0003	0.0002	0.0044	0.0047
Thallium	Annual mean	0.0000038	0.0000015	0.0000013	0.0001	0.00006	0.00002	0.00001	0.00001	0.00014	0.00009	0.00006	0.00006	0.00004	0.00000010	0.000000036	0.00000082	0.0000088
Thallium	Maximum 1 hour mean	0.0045	0.0037	0.0037	0.0088	0.0091	0.0090	0.0074	0.0051	0.0075	0.0066	0.0078	0.0067	0.0079	0.0003	0.00023	0.0044	0.0047
Mercury	Annual mean	0.0000038	0.0000015	0.0000013	0.0001	0.00006	0.00002	0.00001	0.00001	0.00014	0.00009	0.00006	0.00006	0.00004	0.00000010	0.000000036	0.00000082	0.0000088
Mercury	Maximum 1 hour mean	0.0045	0.0037	0.0037	0.0088	0.0091	0.0090	0.0074	0.0051	0.0075	0.0066	0.0078	0.0067	0.0079	0.0003	0.00023	0.0044	0.0047
Antimony	Annual mean	0.0000090	0.0000037	0.0000031	0.0002	0.00014	0.00005	0.00004	0.00002	0.00033	0.00021	0.00014	0.00014	0.00011	0.00000023	0.000000086	0.0000020	0.000021
Antimony	Maximum 1 hour mean	0.0108	0.0088	0.0088	0.0210	0.022	0.021	0.018	0.012	0.018	0.016	0.019	0.016	0.019	0.0008	0.00056	0.011	0.011
Arsenic	Annual mean	0.0000083	0.0000034	0.0000029	0.0002	0.00013	0.00004	0.00003	0.00002	0.00031	0.00020	0.00013	0.00013	0.00010	0.00000021	0.000000079	0.0000018	0.000019
Arsenic	Maximum 1 hour mean	0.0099	0.0081	0.0081	0.0193	0.020	0.020	0.016	0.011	0.016	0.015	0.017	0.015	0.017	0.00070	0.00051	0.010	0.010
Lead	Annual mean	0.0000071	0.0000029	0.0000025	0.0001	0.00011	0.00004	0.00003	0.00002	0.00026	0.00017	0.00011	0.00011	0.00008	0.00000018	0.000000068	0.0000015	0.000016
Chromium (as VI)	Annual mean	0.0000090	0.0000037	0.000003	0.0002	0.00014	0.00005	0.00004	0.00002	0.00033	0.00021	0.00014	0.00014	0.00011	0.00000023	0.000000086	0.0000020	0.000021
Chromium (as VI)	Maximum 1 hour mean	0.0108	0.0088	0.0088	0.0210	0.022	0.021	0.018	0.012	0.018	0.016	0.019	0.016	0.019	0.00076	0.00056	0.011	0.011
Cobalt	Annual mean	0.0000090	0.0000037	0.000003	0.0002	0.00014	0.00005	0.00004	0.00002	0.00033	0.00021	0.00014	0.00014	0.00011	0.00000023	0.000000086	0.0000020	0.000021
Cobalt	Maximum 1 hour mean	0.0108	0.0088	0.0088	0.0210	0.022	0.021	0.018	0.012	0.018	0.016	0.019	0.016	0.019	0.00076	0.00056	0.011	0.011
Copper	Annual mean	0.0000146	0.0000059	0.000005	0.0003	0.00023	0.00007	0.00006	0.00003	0.00054	0.00035	0.00023	0.00023	0.00017	0.00000037	0.00000014	0.0000032	0.000034
Copper	Maximum 1 hour mean	0.0175	0.0142	0.0142	0.034	0.035	0.035	0.029	0.019	0.029	0.026	0.030	0.026	0.030	0.0012	0.00090	0.017	0.018
Manganese	Annual mean	0.0000083	0.0000034	0.000003	0.0002	0.00013	0.00004	0.00003	0.00002	0.00031	0.00020	0.00013	0.00013	0.00010	0.00000021	0.000000079	0.0000018	0.000019
Manganese	Maximum	0.0012	0.0006	0.0007	0.0075	0.007	0.005	0.003	0.002	0.011	0.008	0.007	0.006	0.005	0.000036	0.000027	0.00051	0.001



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Substance	Averaging period	Industrial Estate 5	Industrial Estate 6	Industrial Estate 7	Industrial Estate 8	Industrial Estate 9	Industrial Estate 10	Industrial Estate 11	Industrial Estate 12	Industrial Estate 13	Industrial Estate 14	Industrial Estate 15 (monitoring station)	Industrial Estate 16 (north of road)	Industrial Estate 17 (Veolia)	Site to north 1	Site to north 2	Site to north 3	Site to north 4
	24 hour mean																	
Nickel	Annual mean	0.0000142	0.0000058	0.000005	0.0003	0.00023	0.00007	0.00006	0.00003	0.00053	0.00034	0.00022	0.00022	0.00017	0.00000036	0.00000014	0.0000031	0.000033
Nickel	Maximum 1 hour mean	0.0170	0.0139	0.014	0.0331	0.034	0.034	0.028	0.019	0.028	0.025	0.029	0.025	0.030	0.0012	0.0009	0.017	0.018
Vanadium	Annual mean	0.0000211	0.0000086	0.000007	0.0004	0.00033	0.00011	0.00008	0.00005	0.00078	0.00050	0.00033	0.00033	0.00025	0.00000054	0.00000020	0.0000046	0.000049
Vanadium	Maximum 24 hour mean	0.00296	0.00162	0.0018	0.019	0.017	0.012	0.009	0.006	0.027	0.019	0.019	0.015	0.014	0.000091	0.000068	0.0013	0.0024
Dioxins and furans	Annual mean	7.6×10^{-12}	3.1×10^{-12}	2.6×10^{-12}	1.5×10^{-10}	1.2×10^{-10}	3.9×10^{-11}	3.0×10^{-11}	1.7×10^{-11}	2.8×10^{-10}	1.8×10^{-10}	1.2×10^{-10}	1.2×10^{-10}	9.0×10^{-11}	1.9×10^{-13}	7.2×10^{-14}	1.6×10^{-12}	1.8×10^{-11}
Carbon monoxide	Maximum 8 hour mean	2.2	1.0	1.2	10.1	9.3	8.2	6.2	4.0	10.8	8.5	8.9	9.6	8.2	0.081	0.058	1.1	1.4
Ammonia	Annual mean	0.00076	0.00031	0.00026	0.015	0.012	0.004	0.003	0.002	0.028	0.018	0.012	0.012	0.009	0.000019	0.0000072	0.00016	0.0018
Ammonia	Maximum 1 hour mean	0.91	0.74	0.74	1.76	1.82	1.80	1.48	1.01	1.49	1.33	1.57	1.34	1.58	0.064	0.047	0.89	0.94
BaP	Annual mean	1.9×10^{-8}	7.7×10^{-9}	6.5×10^{-9}	3.6×10^{-7}	3.0×10^{-7}	9.7×10^{-8}	7.4×10^{-8}	4.3×10^{-8}	7.0×10^{-7}	4.5×10^{-7}	2.9×10^{-7}	2.9×10^{-7}	2.2×10^{-7}	4.9×10^{-10}	1.8×10^{-10}	4.1×10^{-9}	4.4×10^{-8}

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Table A6.4.5 : Modelled Results at Designated Habitat Sites (Inclined stack option)

Site	NOx					SO2					Ammonia				
	Background	PC	PEC	PC/EAL	PEC/EAL	Background	PC	PEC	PC/EAL	PEC/EAL	Background	PC	PEC	PC/EAL	PEC/EAL
Stowe Pool and Walk Mill Clay Pit	42	0.149	42.1	0.50%	140%	3.82	0.037	3.9	0.186%	19%	4.5	0.0074	4.51	0.093%	56%
Big Hyde Rough	11.2	0.075	11.3	0.25%	38%	2.79	0.019	2.8	0.093%	14%	4.5	0.0037	4.50	0.047%	56%
Belvide Reservoir	12	0.079	12.1	0.26%	40%	2.95	0.020	3.0	0.099%	15%	4.5	0.0040	4.50	0.050%	56%
Allimore Green Common	9.83	0.030	9.9	0.10%	33%	3	0.0076	3.0	0.038%	15%	4.5	0.0015	4.50	0.019%	56%
Baswich Meadows	15.1	0.055	15.2	0.18%	51%	3.53	0.014	3.5	0.069%	18%	4.5	0.0027	4.50	0.034%	56%
Daw End Railway Cutting	35.5	0.042	35.5	0.14%	118%	4.82	0.0105	4.8	0.053%	24%	4.5	0.0021	4.50	0.026%	56%
Clayhanger	27.2	0.042	27.2	0.14%	91%	3.67	0.0105	3.7	0.052%	18%	4.5	0.0021	4.50	0.026%	56%
Biddulph's Pool and No Man's Bank	19.7	0.092	19.8	0.31%	66%	4.46	0.023	4.5	0.115%	22%	4.5	0.0046	4.50	0.057%	56%
Gentleshaw Common	20.5	0.071	20.6	0.24%	69%	5.11	0.018	5.1	0.089%	26%	4.5	0.0035	4.50	0.044%	56%
Jockey Fields	32.4	0.034	32.4	0.11%	108%	4.36	0.0085	4.4	0.042%	22%	4.5	0.0017	4.50	0.021%	56%
Swan Pool and the Swag	31.1	0.036	31.1	0.12%	104%	4.04	0.0089	4.0	0.044%	20%	4.5	0.0018	4.50	0.022%	56%
Motley Meadows	9.98	0.037	10.0	0.12%	33%	2.92	0.0092	2.9	0.046%	15%	4.5	0.0018	4.50	0.023%	56%
Stubbers Green Bog	35.5	0.033	35.5	0.11%	118%	3.93	0.0083	3.9	0.042%	20%	4.5	0.0017	4.50	0.021%	56%
Stafford Brook	13.5	0.043	13.5	0.14%	45%	4.01	0.0109	4.0	0.054%	20%	4.5	0.0022	4.50	0.027%	56%
Cannock Chase	14.4	0.075	14.5	0.25%	48%	3.63	0.019	3.6	0.093%	18%	4.5	0.0037	4.50	0.047%	56%
Cannock Chase Extension Canal	33.8	0.050	33.8	0.17%	113%	3.4	0.012	3.4	0.062%	17%	4.5	0.0025	4.50	0.031%	56%
Gospel End Road Cutting	21.5	0.023	21.5	0.08%	72%	3.07	0.0058	3.1	0.029%	15%	4.5	0.0012	4.50	0.015%	56%
Milford Quarry	12.6	0.068	12.7	0.23%	42%	3.17	0.017	3.2	0.085%	16%	4.5	0.0034	4.50	0.042%	56%
Rawbones Meadow	11.7	0.051	11.8	0.17%	39%	3.43	0.013	3.4	0.063%	17%	4.5	0.0025	4.50	0.032%	56%
Chasewater Heaths	32.5	0.066	32.6	0.22%	109%	4.35	0.017	4.4	0.083%	22%	4.5	0.0033	4.50	0.041%	56%



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Table A6.4.6 : Modelled Results at Designated Habitat Sites (Vertical stack option)

Site	NOx					SO2					Ammonia				
	Background	PC	PEC	PC/EAL	PEC/EAL	Background	PC	PEC	PC/EAL	PEC/EAL	Background	PC	PEC	PC/EAL	PEC/EAL
Stowe Pool and Walk Mill Clay Pit	42	0.145	42.1	0.48%	140%	3.82	0.036	3.9	0.182%	19%	4.5	0.0073	4.51	0.091%	56%
Big Hyde Rough	11.2	0.073	11.3	0.24%	38%	2.79	0.018	2.8	0.091%	14%	4.5	0.0036	4.50	0.045%	56%
Belvide Reservoir	12	0.078	12.1	0.26%	40%	2.95	0.019	3.0	0.097%	15%	4.5	0.0039	4.50	0.049%	56%
Allimore Green Common	9.83	0.030	9.9	0.10%	33%	3	0.0075	3.0	0.038%	15%	4.5	0.0015	4.50	0.019%	56%
Baswich Meadows	15.1	0.056	15.2	0.19%	51%	3.53	0.014	3.5	0.070%	18%	4.5	0.0028	4.50	0.035%	56%
Daw End Railway Cutting	35.5	0.042	35.5	0.14%	118%	4.82	0.0104	4.8	0.052%	24%	4.5	0.0021	4.50	0.026%	56%
Clayhanger	27.2	0.041	27.2	0.14%	91%	3.67	0.0104	3.7	0.052%	18%	4.5	0.0021	4.50	0.026%	56%
Biddulph's Pool and No Man's Bank	19.7	0.090	19.8	0.30%	66%	4.46	0.023	4.5	0.113%	22%	4.5	0.0045	4.50	0.056%	56%
Gentleshaw Common	20.5	0.070	20.6	0.23%	69%	5.11	0.017	5.1	0.087%	26%	4.5	0.0035	4.50	0.044%	56%
Jockey Fields	32.4	0.034	32.4	0.11%	108%	4.36	0.0084	4.4	0.042%	22%	4.5	0.0017	4.50	0.021%	56%
Swan Pool and the Swag	31.1	0.035	31.1	0.12%	104%	4.04	0.0088	4.0	0.044%	20%	4.5	0.0018	4.50	0.022%	56%
Motley Meadows	9.98	0.036	10.0	0.12%	33%	2.92	0.0090	2.9	0.045%	15%	4.5	0.0018	4.50	0.023%	56%
Stubbers Green Bog	35.5	0.033	35.5	0.11%	118%	3.93	0.0083	3.9	0.041%	20%	4.5	0.0017	4.50	0.021%	56%
Stafford Brook	13.5	0.041	13.5	0.14%	45%	4.01	0.0102	4.0	0.051%	20%	4.5	0.0020	4.50	0.025%	56%
Cannock Chase	14.4	0.073	14.5	0.24%	48%	3.63	0.018	3.6	0.092%	18%	4.5	0.0037	4.50	0.046%	56%
Cannock Chase Extension Canal	33.8	0.049	33.8	0.16%	113%	3.4	0.012	3.4	0.062%	17%	4.5	0.0025	4.50	0.031%	56%
Gospel End Road Cutting	21.5	0.024	21.5	0.08%	72%	3.07	0.0059	3.1	0.029%	15%	4.5	0.0012	4.50	0.015%	56%
Milford Quarry	12.6	0.065	12.7	0.22%	42%	3.17	0.016	3.2	0.081%	16%	4.5	0.0032	4.50	0.040%	56%
Rawbones Meadow	11.7	0.049	11.7	0.16%	39%	3.43	0.012	3.4	0.062%	17%	4.5	0.0025	4.50	0.031%	56%
Chasewater Heaths	32.5	0.065	32.6	0.22%	109%	4.35	0.016	4.4	0.082%	22%	4.5	0.0033	4.50	0.041%	56%