

Appendix 11.5: Predicted noise levels for 102.5m hub height

Table A.1: Predicted Noise Levels from the Development at Varying Wind Speeds for Hub Height of 102.5m at Standardised 10m Height Wind Speed

	ITM	ITM	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA
H1	535070	822103	33	37.6	42	43.4	43.4	43.4
H2	535267	821598	32.9	37.5	41.9	43.3	43.3	43.3
H3	535188	821210	31.2	35.8	40.2	41.7	41.7	41.7
H4	535124	823263	28.7	33.3	37.7	39.1	39.1	39.1
H5	535061	823316	27.9	32.5	36.9	38.3	38.3	38.3
H6	535574	819899	28.2	32.8	37.2	38.6	38.6	38.6
H7	535387	820024	28	32.6	37	38.4	38.4	38.4
H8	535857	819660	27.5	32.1	36.5	37.9	37.9	37.9
H9	535644	819809	27.9	32.5	36.9	38.3	38.3	38.3
H10	535747	819724	27.7	32.3	36.7	38.1	38.1	38.1
H11	535966	819584	27.2	31.8	36.2	37.6	37.6	37.6
H12	535210	820136	27.6	32.2	36.6	38	38	38
H13	534401	822381	26.7	31.3	35.7	37.1	37.1	37.1
H14	534306	822410	26	30.6	35	36.4	36.4	36.4
H15	534999	823644	25.3	29.9	34.3	35.7	35.7	35.7
H16	534907	820371	26.7	31.3	35.7	37.1	37.1	37.1
H17	534321	822162	26.1	30.7	35.1	36.5	36.5	36.5
H18	534233	822602	25.2	29.8	34.2	35.6	35.6	35.6
H19	536282	819253	25	29.6	34	35.4	35.4	35.4
H20	534230	822231	25.5	30.1	34.5	35.9	35.9	35.9
H21	535711	819425	25.4	30	34.4	35.8	35.8	35.8
H22	534198	822255	25.3	29.9	34.3	35.7	35.7	35.7
H23	535670	819393	25.1	29.7	34.1	35.5	35.5	35.5
H24	534175	822187	25.1	29.7	34.1	35.5	35.5	35.5
H25	534988	823817	24.2	28.8	33.2	34.6	34.6	34.6
H26	534775	820212	25.3	29.9	34.3	35.7	35.7	35.7
H27	535082	823941	23.7	28.3	32.7	34.1	34.1	34.1
H28	536542	819091	23.9	28.5	32.9	34.3	34.3	34.3
H29	534421	820709	24.8	29.4	33.8	35.2	35.2	35.2
H30	536673	818878	22.5	27.1	31.5	32.9	32.9	32.9

	ITM	ITM	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA
H31	534352	820705	24.4	29	33.4	34.8	34.8	34.8
H32	534961	824183	22.2	26.8	31.2	32.6	32.6	32.6
H33	533812	822112	22.9	27.5	31.9	33.3	33.3	33.3
H34	533788	822143	22.8	27.4	31.8	33.2	33.2	33.2
H35	535220	824333	21.9	26.5	30.9	32.3	32.3	32.3
H36	534326	820215	23.1	27.7	32.1	33.5	33.5	33.5
H37	536569	818707	21.7	26.3	30.7	32.1	32.1	32.1
H38	534868	824326	21.3	25.9	30.3	31.7	31.7	31.7
H39	534270	820167	22.7	27.3	31.7	33.1	33.1	33.1
H40	534280	820106	22.5	27.1	31.5	32.9	32.9	32.9
H41	536492	818590	21.1	25.7	30.1	31.5	31.5	31.5
H42	535188	824469	21.2	25.8	30.2	31.6	31.6	31.6
H43	536527	818584	21	25.6	30	31.4	31.4	31.4
H44	533553	822169	21.6	26.2	30.6	32	32	32
H45	534052	820668	22.8	27.4	31.8	33.2	33.2	33.2
H46	533495	822184	21.3	25.9	30.3	31.7	31.7	31.7

NB: H1 and H2 are derelict buildings

Table A2: Margin between Predicted Development Noise Levels for Hub Height of 102.5m and Lower Fixed Limit of 43dBA at Standardised 10m Height Wind Speed

	ITM	ITM	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA
H1	535070	822103	-7.0	-5.4	-1.0	0.4	0.4	0.4
H2	535267	821598	-7.1	-5.5	-1.1	0.3	0.3	0.3
H3	535188	821210	-8.8	-7.2	-2.8	-1.3	-1.3	-1.3
H4	535124	823263	-11.3	-9.7	-5.3	-3.9	-3.9	-3.9
H5	535061	823316	-12.1	-10.5	-6.1	-4.7	-4.7	-4.7
H6	535574	819899	-11.8	-10.2	-5.8	-4.4	-4.4	-4.4
H7	535387	820024	-12.0	-10.4	-6.0	-4.6	-4.6	-4.6
H8	535857	819660	-12.5	-10.9	-6.5	-5.1	-5.1	-5.1
H9	535644	819809	-12.1	-10.5	-6.1	-4.7	-4.7	-4.7
H10	535747	819724	-12.3	-10.7	-6.3	-4.9	-4.9	-4.9

	ITM	ITM	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA
H11	535966	819584	-12.8	-11.2	-6.8	-5.4	-5.4	-5.4
H12	535210	820136	-12.4	-10.8	-6.4	-5	-5	-5
H13	534401	822381	-13.3	-11.7	-7.3	-5.9	-5.9	-5.9
H14	534306	822410	-14.0	-12.4	-8.0	-6.6	-6.6	-6.6
H15	534999	823644	-14.7	-13.1	-8.7	-7.3	-7.3	-7.3
H16	534907	820371	-13.3	-11.7	-7.3	-5.9	-5.9	-5.9
H17	534321	822162	-13.9	-12.3	-7.9	-6.5	-6.5	-6.5
H18	534233	822602	-14.8	-13.2	-8.8	-7.4	-7.4	-7.4
H19	536282	819253	-15.0	-13.4	-9.0	-7.6	-7.6	-7.6
H20	534230	822231	-14.5	-12.9	-8.5	-7.1	-7.1	-7.1
H21	535711	819425	-14.6	-13.0	-8.6	-7.2	-7.2	-7.2
H22	534198	822255	-14.7	-13.1	-8.7	-7.3	-7.3	-7.3
H23	535670	819393	-14.9	-13.3	-8.9	-7.5	-7.5	-7.5
H24	534175	822187	-14.9	-13.3	-8.9	-7.5	-7.5	-7.5
H25	534988	823817	-15.8	-14.2	-9.8	-8.4	-8.4	-8.4
H26	534775	820212	-14.7	-13.1	-8.7	-7.3	-7.3	-7.3
H27	535082	823941	-16.3	-14.7	-10.3	-8.9	-8.9	-8.9
H28	536542	819091	-16.1	-14.5	-10.1	-8.7	-8.7	-8.7
H29	534421	820709	-15.2	-13.6	-9.2	-7.8	-7.8	-7.8
H30	536673	818878	-17.5	-15.9	-11.5	-10.1	-10.1	-10.1
H31	534352	820705	-15.6	-14.0	-9.6	-8.2	-8.2	-8.2
H32	534961	824183	-17.8	-16.2	-11.8	-10.4	-10.4	-10.4
H33	533812	822112	-17.1	-15.5	-11.1	-9.7	-9.7	-9.7
H34	533788	822143	-17.2	-15.6	-11.2	-9.8	-9.8	-9.8
H35	535220	824333	-18.1	-16.5	-12.1	-10.7	-10.7	-10.7
H36	534326	820215	-16.9	-15.3	-10.9	-9.5	-9.5	-9.5
H37	536569	818707	-18.3	-16.7	-12.3	-10.9	-10.9	-10.9
H38	534868	824326	-18.7	-17.1	-12.7	-11.3	-11.3	-11.3
H39	534270	820167	-17.3	-15.7	-11.3	-9.9	-9.9	-9.9
H40	534280	820106	-17.5	-15.9	-11.5	-10.1	-10.1	-10.1
H41	536492	818590	-18.9	-17.3	-12.9	-11.5	-11.5	-11.5
H42	535188	824469	-18.8	-17.2	-12.8	-11.4	-11.4	-11.4
H43	536527	818584	-19.0	-17.4	-13.0	-11.6	-11.6	-11.6

	ITM	ITM	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA
H44	533553	822169	-18.4	-16.8	-12.4	-11	-11	-11
H45	534052	820668	-17.2	-15.6	-11.2	-9.8	-9.8	-9.8
H46	533495	822184	-18.7	-17.1	-12.7	-11.3	-11.3	-11.3

NB: H1 and H2 are derelict buildings