

Appendix 11.5: Predicted noise levels for 102.5m hub height

Table A.1: Predicted noise levels at varying wind speeds for hub height of 102.5m at standardised to 10m height wind speed

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H1	512160	578211	30.7	37.2	39.7	39.7	39.7	39.7	39.7
H2	513445	578031	31.1	37.6	40.1	40.1	40.1	40.1	40.1
H3	513072	579801	30.4	36.9	39.4	39.4	39.4	39.4	39.4
H4	514329	579384	30	36.5	39	39	39	39	39
H5	514339	577982	28.2	34.7	37.2	37.2	37.2	37.2	37.2
H6	514756	578856	28	34.5	37	37	37	37	37
H7	513435	577744	28.6	35.1	37.6	37.6	37.6	37.6	37.6
H8	512511	577570	26.9	33.4	35.9	35.9	35.9	35.9	35.9
H9	513762	577696	27.6	34.1	36.6	36.6	36.6	36.6	36.6
H10	513449	577603	27.4	33.9	36.4	36.4	36.4	36.4	36.4
H11	513566	577655	27.6	34.1	36.6	36.6	36.6	36.6	36.6
H12	514700	579510	26.3	32.8	35.3	35.3	35.3	35.3	35.3
H13	513505	577609	27.3	33.8	36.3	36.3	36.3	36.3	36.3
H14	513565	577612	27.3	33.8	36.3	36.3	36.3	36.3	36.3
H15	512009	577691	25.9	32.4	34.9	34.9	34.9	34.9	34.9
H16	513794	577514	26.1	32.6	35.1	35.1	35.1	35.1	35.1
H17	511756	577894	25.8	32.3	34.8	34.8	34.8	34.8	34.8
H18	511689	577885	25.3	31.8	34.3	34.3	34.3	34.3	34.3
H19	513838	580300	25.2	31.7	34.2	34.2	34.2	34.2	34.2
H20	513548	577431	25.9	32.4	34.9	34.9	34.9	34.9	34.9
H21	514950	577873	23.6	30.1	32.6	32.6	32.6	32.6	32.6
H22	515053	579406	24.1	30.6	33.1	33.1	33.1	33.1	33.1
H23	513747	577308	24.7	31.2	33.7	33.7	33.7	33.7	33.7
H24	514759	577513	22.9	29.4	31.9	31.9	31.9	31.9	31.9
H25	513572	577269	24.7	31.2	33.7	33.7	33.7	33.7	33.7
H26	513974	577197	23.6	30.1	32.6	32.6	32.6	32.6	32.6
H27	515322	579275	22.6	29.1	31.6	31.6	31.6	31.6	31.6
H28	513631	577179	24.1	30.6	33.1	33.1	33.1	33.1	33.1
H29	515488	579130	21.8	28.3	30.8	30.8	30.8	30.8	30.8
H30	514568	577209	22	28.5	31	31	31	31	31

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H31	514413	577149	22.2	28.7	31.2	31.2	31.2	31.2	31.2
H32	511831	577246	22.5	29	31.5	31.5	31.5	31.5	31.5
H33	515603	579094	21.1	27.6	30.1	30.1	30.1	30.1	30.1
H34	512444	580689	22.7	29.2	31.7	31.7	31.7	31.7	31.7
H35	515614	578103	20.5	27	29.5	29.5	29.5	29.5	29.5
H36	515672	578122	20.2	26.7	29.2	29.2	29.2	29.2	29.2
H37	515646	578046	20.2	26.7	29.2	29.2	29.2	29.2	29.2
H38	515525	579630	20.7	27.2	29.7	29.7	29.7	29.7	29.7
H39	515332	577403	19.9	26.4	28.9	28.9	28.9	28.9	28.9

Table A2: Margin between predicted cumulative noise levels, LA 90, 40dB limit at less than 5m/s and LA90, 43dB for all other wind speeds

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H1	512160	578211	-9.3	-5.8	-3.3	-3.3	-3.3	-3.3	-3.3
H2	513445	578031	-8.9	-5.4	-2.9	-2.9	-2.9	-2.9	-2.9
H3	513072	579801	-9.6	-6.1	-3.6	-3.6	-3.6	-3.6	-3.6
H4	514329	579384	-10	-6.5	-4	-4	-4	-4	-4
H5	514339	577982	-11.8	-8.3	-5.8	-5.8	-5.8	-5.8	-5.8
H6	514756	578856	-12	-8.5	-6	-6	-6	-6	-6
H7	513435	577744	-11.4	-7.9	-5.4	-5.4	-5.4	-5.4	-5.4
H8	512511	577570	-13.1	-9.6	-7.1	-7.1	-7.1	-7.1	-7.1
H9	513762	577696	-12.4	-8.9	-6.4	-6.4	-6.4	-6.4	-6.4
H10	513449	577603	-12.6	-9.1	-6.6	-6.6	-6.6	-6.6	-6.6
H11	513566	577655	-12.4	-8.9	-6.4	-6.4	-6.4	-6.4	-6.4
H12	514700	579510	-13.7	-10.2	-7.7	-7.7	-7.7	-7.7	-7.7
H13	513505	577609	-12.7	-9.2	-6.7	-6.7	-6.7	-6.7	-6.7
H14	513565	577612	-12.7	-9.2	-6.7	-6.7	-6.7	-6.7	-6.7
H15	512009	577691	-14.1	-10.6	-8.1	-8.1	-8.1	-8.1	-8.1
H16	513794	577514	-13.9	-10.4	-7.9	-7.9	-7.9	-7.9	-7.9
H17	511756	577894	-14.2	-10.7	-8.2	-8.2	-8.2	-8.2	-8.2
H18	511689	577885	-14.7	-11.2	-8.7	-8.7	-8.7	-8.7	-8.7

	ITM	ITM	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9+m/s
House ID	Easting	Northing	dBA	dBA	dBA	dBA	dBA	dBA	dBA
H19	513838	580300	-14.8	-8.3	-8.8	-8.8	-8.8	-8.8	-8.8
H20	513548	577431	-14.1	-7.6	-8.1	-8.1	-8.1	-8.1	-8.1
H21	514950	577873	-16.4	-9.9	-10.4	-10.4	-10.4	-10.4	-10.4
H22	515053	579406	-15.9	-9.4	-9.9	-9.9	-9.9	-9.9	-9.9
H23	513747	577308	-15.3	-8.8	-9.3	-9.3	-9.3	-9.3	-9.3
H24	514759	577513	-17.1	-10.6	-11.1	-11.1	-11.1	-11.1	-11.1
H25	513572	577269	-15.3	-8.8	-9.3	-9.3	-9.3	-9.3	-9.3
H26	513974	577197	-16.4	-9.9	-10.4	-10.4	-10.4	-10.4	-10.4
H27	515322	579275	-17.4	-10.9	-11.4	-11.4	-11.4	-11.4	-11.4
H28	513631	577179	-15.9	-9.4	-9.9	-9.9	-9.9	-9.9	-9.9
H29	515488	579130	-18.2	-11.7	-12.2	-12.2	-12.2	-12.2	-12.2
H30	514568	577209	-18	-11.5	-12	-12	-12	-12	-12
H31	514413	577149	-17.8	-11.3	-11.8	-11.8	-11.8	-11.8	-11.8
H32	511831	577246	-17.5	-11	-11.5	-11.5	-11.5	-11.5	-11.5
H33	515603	579094	-18.9	-12.4	-12.9	-12.9	-12.9	-12.9	-12.9
H34	512444	580689	-17.3	-10.8	-11.3	-11.3	-11.3	-11.3	-11.3
H35	515614	578103	-19.5	-13	-13.5	-13.5	-13.5	-13.5	-13.5
H36	515672	578122	-19.8	-13.3	-13.8	-13.8	-13.8	-13.8	-13.8
H37	515646	578046	-19.8	-13.3	-13.8	-13.8	-13.8	-13.8	-13.8
H38	515525	579630	-19.3	-12.8	-13.3	-13.3	-13.3	-13.3	-13.3
H39	515332	577403	-20.1	-13.6	-14.1	-14.1	-14.1	-14.1	-14.1