



## **APPENDIX 11-4**

### **SOUND POWER LEVELS**

## SOUND POWER LEVELS

*Table 11-4A Sound Power Level Spectra Used for Prediction Model – Glenard Wind Farm – 96m Hub Height*

Wind Speed (m/s)	Octave Band Centre Frequency (Hz)								dB L <sub>WA</sub>
	63	125	250	500	1000	2000	4000	8000	
4	76.6	83.6	88.4	90.3	89.1	87.5	83.2	74.0	95.6
5	81.9	88.9	93.4	95.2	94.0	92.8	88.5	79.3	100.7
6	85.6	92.6	96.7	98.5	97.8	96.5	92.2	83.0	104.2
7	86.2	93.2	97.2	99.0	98.4	97.1	92.8	83.6	104.8
8	86.2	93.2	97.2	99.0	98.4	97.1	92.8	83.6	104.8
≥9	86.2	93.2	97.2	99.0	98.4	97.1	92.8	83.6	104.8

*Table 11-4B Sound Power Level Spectra Used for Prediction Model – Glenard Wind Farm – 105m Hub Height*

Wind Speed (m/s)	Octave Band Centre Frequency (Hz)								dB L <sub>WA</sub>
	63	125	250	500	1000	2000	4000	8000	
4	76.7	83.8	88.6	90.5	89.3	87.6	83.3	74.1	95.8
5	82.2	89.2	93.7	95.5	94.3	93.1	88.8	79.6	101.0
6	85.8	92.8	96.8	98.6	98.0	96.7	92.4	83.2	104.4
7	86.2	93.2	97.2	99.0	98.4	97.1	92.8	83.6	104.8
8	86.2	93.2	97.2	99.0	98.4	97.1	92.8	83.6	104.8
≥9	86.2	93.2	97.2	99.0	98.4	97.1	92.8	83.6	104.8

Table 11-4C Sound Power Level Spectra Used for Prediction Model – Glenard Wind Farm – 107m Hub Height

Wind Speed (m/s)	Octave Band Centre Frequency (Hz)								dB L <sub>WA</sub>
	63	125	250	500	1000	2000	4000	8000	
4	74.7	81.7	85.5	86.9	86.9	85.6	81.3	72.1	93.1
5	76.7	83.8	88.6	90.5	89.3	87.6	83.3	74.1	95.8
6	82.3	89.3	93.8	95.6	94.4	93.2	88.9	79.7	101.1
7	85.9	92.9	96.8	98.6	98.1	96.8	92.5	83.3	104.4
8	86.2	93.2	97.2	99.0	98.4	97.1	92.8	83.6	104.8
≥9	86.2	93.2	97.2	99.0	98.4	97.1	92.8	83.6	104.8