

Fanellan Hub 400 kV Substation and Converter Station
Environmental Impact Assessment Report
Volume 4 | Technical Appendices

Appendix 14.20 – BD OHL Worst Case Construction
Activities and Associated Noise Levels for Foundations

February 2025



TECHNICAL APPENDIX 14: NOISE IMPACT ASSESSMENT

14.20 BD OHL Worst Case Construction Activities and Associated Noise Levels for Foundations

Activity	Plant Item	Quantity	Utilisation %	Sound Power, LW (dB(A))	Sound Power corrected for quantity and utilisation, LW (dB(A))	L _{Aeq} at 10 m (dB)
Foundations	C4.27 Concrete Mixer Truck	2	50%	107	107	73
	C4.24 Concrete Pump + Cement Mixer Truck (Discharging)	2	50%	96	96	90
	C2.19 Tracked Excavator	2	80%	105	107	92
	C4.14 Wheeled Backhoe Loader	1	80%	95	94	65
	C4.33 Poker Vibrator	2	50%	106	106	80
	C4.88 Water Pump (Diesel)	2	20%	97	93	85
	C2.34 Lorry	2	10%	108	101	74
	C4.95 Handheld Cordless Nail Gun	2	80%	101	103	86
	Compressor (pending SI)	2	100%	100	103	88
	Piling Rig (pending SI)	2	100%	120	123	70
Total					123	95