

Fanellan Hub 400 kV Substation and Converter Station

Environmental Impact Assessment Report

Volume 4 | Technical Appendices

Appendix 14.15 – Fanellan Hub Worst Case Construc- tion Activities and Associated Noise Levels for Civils

February 2025



TECHNICAL APPENDIX 14: NOISE IMPACT ASSESSMENT

14.15 Fanellan HUB Worst Case Construction Activities and Associated Noise Levels for Civils

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)
Civils	C2.16 Tracked Excavator	76	70%	103	104	76
	C2.24 Tracked Excavator	81	70%	101	109	81
	C6.26 Articulated Dump Truck	89	70%	107	117	89
	C5.27 Vibratory Roller	67	40%	95	95	67
	C5.28 Vibratory Roller	77	40%	104	105	77
	C4.88 Water Pump (Diesel)	72	20%	97	100	72
	C2.34 Lorry	89	70%	108	117	89
	C8.20 Tipper Lorry	77	60%	107	105	77
	C4.55 Telescopic Handler	78	70%	99	106	78
	C4.41 Mobile Telescopic Crane	74	90%	99	102	74
	C6.38 Tractor (Towing Water Bowser)	86	60%	111	114	86
	C4.21 Large Lorry Concrete Mixer	84	60%	105	112	84
	C3.25 Concrete Pump	71	10%	106	99	71
	C5.15 Bulldozer	82	80%	111	110	82
	C4.50 Tracked Mobile Crane	70	90%	99	98	70
	C5.32 Asphalt Paver (+ Tipper Lorry)	83	90%	112	111	83
	C4.86 Diesel Generator	74	40%	93	102	74
	Diesel Generator For Lights	97	30%	124	125	97
Total					127	99