

Appendix 17.3

Noise Generating Construction Activities and Plant Items

Transport Scotland

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Table 1.1: Noise Generating Construction Activities and Plant Items

Phase ID	Phase Description	Summed noise level L_{Aeq} at 10 m	Plant item	Plant noise level L_{Aeq} at 10 m	BS 5228-1 ⁱ Reference	Number of items	On-time (%)	On-time correction	Resultant noise level
1	Site Clearance	80	Tracked excavator	78	C.2 - 3	1	70	-2	76
			Tipper lorry	79	C.8 - 20	1	30	-5	74
			Tipper lorry	79	C.8 - 20	1	30	-5	74
2	Site Preparation	81	Tracked excavator	78	C.2 - 3	1	70	-2	76
			Tipper lorry	79	C.8 - 20	1	30	-5	74
			Tipper lorry	79	C.8 - 20	1	30	-5	74
			Dozer/Roller	81	C.2 - 36	1	30	-5	76
3	Drainage	79	Tracked excavator	77	C.4 - 63	1	70	-2	75
			Backhoe loader	69	C.4 - 66	1	70	-2	67
			Tipper lorry	79	C.8 - 20	1	30	-5	74
			Tipper lorry	79	C.8 - 20	1	30	-5	74
4	Road Construction	80	Paver + tipper lorry	77	C.5 - 31	1	60	-2	75
			Vibratory roller	80	C.5 - 21	1	30	-5	75
			Road roller	80	C.5 - 19	1	30	-5	75
5	Bridge Construction	80	Mobile crane	70	C.3 - 30	1	30	-5	65
			Vibratory piling rig	88	C.3 - 8	1	10	-10	78
			Lorry	80	C.2 - 34	1	20	-7	73
			Poker vibrator	78	C.4 - 33	1	5	-13	65
			Concrete mixer	78	C.4 - 32	1	30	-5	73

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6	Rock Cutting (excluding blasting)	90	Excavator rock breaker	93	C.9 - 11	1	20	-7	86
			Tracked crusher	90	C.9 - 14	1	20	-7	83
			Wheeled loader	88	C.9 - 7	1	20	-7	81
			Rigid dump truck	90	C.9 - 18	1	30	-5	85
			Tipper lorry	79	C.8 - 20	1	50	-3	76
7	Signage	81	Telescopic handler	70	C.4 - 55	1	40	-4	66
			Mobile crane	78	C.4 - 38	1	40	-4	74
			Hydraulic hammer rig	89	C.3 - 1	1	10	-10	79
			Lorry	80	C.2 - 34	1	20	-7	73

ⁱ The British Standards Institution (2014), BS 5228-1:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites. Part 1: Noise