



Cambridge South East Transport Phase 2

Environmental Statement

Appendix 7.2 Construction Noise Assessment

31st July 2023

Table 7.2.1 Construction plant assumptions

Phase	Activity	Equipment	BS522 8-1 Ref	L _{Aeq,T} dB at 10m per plant unit	Quantity	% on-time
Site Setup	Clearances and Enabling Works	30t Tracked excavator	C.2.16	75	2	50
		9t dumper	C.4.4	76	2	50
		Wheeled backhoe loader	C.4.14	67	2	50
		Lorry	C.2.34	80	2	10
		Lorry with lifting boom	C.4.53	77	2	25
Earthworks / Stockpiling	Travel hub earthworks and footbridge substructure/ earthworks	30t Tracked excavator	C.2.16	75	2	50
		Articulated dump truck	C.4.2	78	2	50
		9t dumper	C.4.4	76	1	50
		Roller	C.5.20	75	1	50
		Dozer	C.2.10	80	1	50
		Lorry	C.2.34	80	1	10
		Lorry with lifting boom	C.4.53	77	2	25
		Drainage	Travel hub drainage	30t Tracked excavator	C.2.16	75
Compacting earth, compacting rammer	D.3.118			80	1	25
9t dumper	C.4.4			76	2	50
Hand-held circular saw (petrol) cutting concrete	C.5.36			87	1	5

Phase	Activity	Equipment	BS522 8-1 Ref	L _{Aeq,T} dB at 10m per plant unit	Quantity	% on-time
Structures	Concrete/Structure and external works	Vibratory plate (petrol)	C.2.41	80	1	10
		Lorry with lifting boom	C.4.53	77	2	25
		Mobile telescopic crane, 100t	C.4.41	71	1	50
		CFA Crawler rig	C.3.22	80	1	75
		Concrete mixer truck (discharging) & concrete pump (pumping)	C.4.28	75	1	75
		30t Tracked excavator	C.2.16	75	1	50
		Roller	C.5.20	75	1	20
		Poker vibrator	C.4.33	78	1	25
		Hand-held circular saw (petrol) cutting concrete	C.5.36	87	1	5
		Vibratory plate (petrol)	C.2.41	80	1	10
Car Park/ Road Construction	Internal site roads, junctions and highways	Lorry with lifting boom	C.4.53	77	2	25
		30t Tracked excavator	C.2.16	75	2	50
		9t dumper	C.4.4	76	2	50
		Roller	C.5.20	75	2	20
		Concrete mixer truck (discharging) & concrete pump (pumping)	C.4.28	75	2	40

Phase	Activity	Equipment	BS522 8-1 Ref	L _{Aeq,T} dB at 10m per plant unit	Quantity	% on-time
		Lorry	C.2.34	80	1	10
		Hand-held circular saw (petrol) cutting concrete	C.5.36	87	1	5
		Vibratory plate (petrol)	C.2.41	80	1	10
		Lorry with lifting boom	C.4.53	77	2	25
Surfacing	Surfacing travel hub and highways	Asphalt paver (+ tipper lorry)	C.5.30	75	1	50
		Roller	C.5.20	75	1	50
		Wheeled backhoe loader	C.4.14	67	1	50
		Lorry	C.2.34	80	2	25
		Road sweeper	C.4.90	76	1	25
		Roller	C.5.20	75	2	50
		Road planer	C.5.7	82	1	20
		Lorry with lifting boom	C.4.53	77	2	25
Minor Civils (Road marking, lights, signals)	Site wide	Mini tracked excavator	C.3.20	68	1	75
		Hand-held circular saw (petrol) cutting concrete	C.5.36	87	1	5
		Lorry with lifting boom	C.4.53	77	1	25
Main Compound	Operation of Main Compound	Telescopic handler	C.4.54	79	2	40
		Diesel generator	C.6.39	65	1	100

Phase	Activity	Equipment	BS522 8-1 Ref	L _{Aeq,T} dB at 10m per plant unit	Quantity	% on-time
	within travel hub site	Lorry	C.2.34	80	2	10
		Lorry with lifting boom	C.4.53	77	1	25
		Wheel wash	N/A	78	1	10
Satellite Compound	Operation of Satellite Compound	Telescopic handler	C.4.54	79	1	40
		Diesel generator	C.6.39	65	1	100
		Lorry	C.2.34	80	1	10
		Lorry with lifting boom	C.4.53	77	1	25
Concrete Compound	Operation of Concrete Compound	Wheel wash	N/A	78	1	10
		Telescopic handler	C.4.54	79	1	40
		Diesel generator	C.6.39	65	1	100
		Lorry	C.2.34	80	1	10
		Wheel wash	N/A	78	1	10
		Lorry with lifting boom	C.4.53	77	1	25
		Batching plant	D.6.10	78	1	100