

A30 Chiverton to Carland Cross Environmental Statement

**Volume 6 Document Ref 6.4 ES Appendix 11.4
Construction plant machinery**

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Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 (as amended)
APFP Regulation 5(2)(a)

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11.4 Construction plant machinery

11.4.1 The type and number of construction plant and the intensity and duration of the construction processes in Table 11.1 has been based on the available construction planning information and data taken from similar highway construction works where construction method information was more developed. These are considered suitable to represent the types works and associated impacts for the A30 scheme assessment.

Table 11-1 Construction plant machinery

Phase	Construction Activity	Plant	Sound Power (dBA)	Reference	Number of plant items	% On time	
1	Site clearance & tree & vegetation removal	Grubbing of existing structures	Tracked Excavator	106	BS5228 Table C 2-3	2	60
		Vegetation clearance	Chain Saw	114	BS522 Table D 2-14	2	25
		Transportation of material	Dump Truck (Tipping Fill)	107	BS5228 Table C 2-30	4	50
2	Traffic Management	Supplying power to lights	Diesel Generator	93	BS5228 Table C 4-86	2	100
3	Boundary Fence	Fence Post Hole Drilling	Petrol Driven Auger	100	Stihl - BT 130 Petrol Earth Auger Technical data	1	25
		Wheeled backhoe loader	Wheeled backhoe loader	96	BS5228 Table C 2-8	1	50
4	Temporary works	Sheet piling	Vibratory Piling Rig	116	BS5228 Table C 2-8	1	50
5	Topsoil strip	Topsoil removal	Scraper	118	BS5228 Table D.9-12	2	75
		Spoil transportation	Bulldozer	111	BS5228 Table C 5-15	2	50
		Transporting material	Dump Truck (Tipping Fill)	107	BS5228 Table C 2-30	2	50
6	Earthworks cut/fill	Earthworks	Tracked Excavator	106	BS5228 Table C 2-3	2	80
		Earthworks	Mini Excavator with Hydraulic Breaker	111	BS5228 Table C 5-2	1	10

Phase		Construction Activity	Plant	Sound Power (dBA)	Reference	Number of plant items	% On time
		Earthworks	Dump Truck (Tipping Fill)	107	BS5228 Table C 2-30	2	50
		Transportating material	Tipper Lorry	107	BS5228 Table C 8-20	2	50
		Earthworks	Vibratory Roller	103	BS5228 Table C 5-25	2	75
7	Drainage	Trenches, ponds, lifting pipes, backfilling with stone	Tracked Excavator	106	BS5228 Table C 2-3	3	75
		Earthworks	Dump Truck (Tipping Fill)	107	BS5228 Table C 2-30	2	50
		Transporting material		107	BS5228 Table C 8-20	2	50
8	Subbase	Earthworks	Dump Truck (Tipping Fill)	107	BS5228 Table C 2-30	2	50
		Transportating material	Tipper Lorry	107	BS5228 Table C 8-20	2	50
		Ground compaction	Roller	101	BS5228 Table C 2-38	2	75
9	Surface water channel	Trenching	Wheeled Backhoe Loader	97	BS5228 Table C 4-66	2	80
		Transporting material	Dump Truck (Tipping Fill)	107	BS5228 Table C 2-30	2	50
10	Pavement / surfacing	Road Surfacing	Paving Machine	105	BSS522 Table C.5.31	1	80
		Transporting material	Lorry	108	BS5228 Table C 2-34	2	50
		Road Surfacing	Road Roller	108	BS5228 Table C 5-19	2	50
		Road Surfacing	Dump Truck	109	BSS522 Table D3-52	2	50
11	Concrete barrier	Lifting into place	Wheeled Mobile Telescopic Crane	106	BS5228 Table C 4-38	1	80
		Transporting material	Lorry	111	BS5228 Table C 11-4	2	25
12	Structures	Pumping concrete	Lorry mounted concrete pump	118	BS522 Table D 6-31	3	20

Phase	Construction Activity	Plant	Sound Power (dBA)	Reference	Number of plant items	% On time
	Pumping Concrete / assembling / Welding/assembling form work / Transporting material / Lifting beams	Tracked crane	109	BS522 Table D 6-18	3	20
	Grinding Steel	Angle Grinder	108	BS5228 Table C 4-93	3	25
	Hand Tools	Hand Tools	107	Estimated	3	25
	Concrete mixing	Large Lorry Concrete Mixer	105	BS5228 Table C 4-21	2	25
	Rock drilling - to represent soil nailing (occurs in two locations only)	Hand-held pneumatic rock drill	118	BS5228 Table D.7-68	1	25

If you need help accessing this or any other Highways England information, please call **0300 123 5000** and we will help you.

