

Great Yarmouth Third River Crossing

Application for Development Consent Order

Document 6.2: Environmental Statement Volume II: Technical Appendix 7C: Noise and Vibration Generating Construction Phases and Plant Items

Planning Act 2008

**The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 (as amended) (“APFP”)**

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1 Noise and Vibration Generating Construction Phases and Plant Items

1.1.1 Table 1.1 lists the key noise and vibration generating construction phases together with the equipment used during each phase. The combined noise level for each phase forms the basis of the construction noise assessment in Chapter 7: Noise and Vibration.

1.1.2 For each of the construction phases identified, the Contractor has provided the following information which is the basis of the construction noise and vibration assessment: working hours, duration of works, construction plant type and number, location of plant, on-times, methods of working and screening.

Table 1.1: Noise Generating Construction Phases and Plant Items

Phase	Plant item	BS 5228 ref.	Plant noise level L_{Aeq} at 10m	No. of items	On-time ¹
Demolition West Bank	30t Excavator with hydraulic muncher	C.1 #1	92	1	80%
	Crane	C.3 #29	70	1	80%
West Bascule Pit Combi-Wall	Vibro hammer	C.3 #8	88	1	20%
	Crane	C.3 #29	70	1	40%
	Hydraulic drop hammer	D.4 #50	107	1	40%
West Abutment Combi-Wall	Hydraulic hammer rig	C.3 #1	89	1	50%
	Hydraulic drop hammer	C.12 #35	94	1	50%
West Embankment Support Piles	Hydraulic hammer rig	C.3 #1	89	2	50%
	Hydraulic drop hammer	C.12 #35	94	2	50%
East Bascule Pit Combi-	Vibro hammer	C.3 #8	88	1	20%
	Crane	C.3 #29	70	1	40%

¹ On-time is the percentage time that the plant item is working over an assumed 10 hour working day. Except for the East Abutment Combi-Wall, where the working day is assumed to be 11 hours.

Phase	Plant item	BS 5228 ref.	Plant noise level L _{Aeq} at 10m	No. of items	On- time ¹
Wall	Hydraulic drop hammer	D.4 #50	107	1	40%
East Abutment Combi-Wall	Vibro hammer	C.3 #8	88	1	18%
	Crane	C.3 #29	70	1	55%
	Hydraulic drop hammer	D.4 #50	107	1	55%
East Embankment Support Piles	Hydraulic hammer rig	C.3 #1	89	2	50%
	Hydraulic drop hammer	C.12 #35	94	2	50%