

# **A1 in Northumberland: Morpeth to Ellingham**

**Scheme Number: TR010041**

## **6.7 Environmental Statement – Appendix 6.4 Source Information and Assumptions for Construction Noise Assessment**

**Part A**

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009

June 2020

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning  
(Applications: Prescribed Forms and  
Procedure) Regulations 2009**

**The A1 in Northumberland: Morpeth to Ellingham  
Development Consent Order 20[xx]**

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**Environmental Statement - Appendix**

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<b>Regulation Reference:</b>	APFP Regulation 5(2)(a)
<b>Planning Inspectorate Scheme Reference</b>	TR010041
<b>Application Document Reference</b>	TR010041/APP/6.7
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<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev 0	June 2020	Application Issue

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## SOURCE INFORMATION AND ASSUMPTIONS FOR CONSTRUCTION NOISE ASSESSMENT

Table 6-1 - Construction Noise Assessment Plant Source Noise Level Assumptions

Construction Activity	Equipment	L <sub>Aeq</sub> at 10 m	SWL	Source BS 5228-1	No. Items	Worst Case on-time, % of Working Period
Site Clearance	Petrol driven chain saw (sawing timber)	86	114	D.2-14	1	10%
	Tracked Excavator	80	108	C.5-18	4	50%
	Lorry	80	108	C.2-34	4	10%
	Wheeled Excavator	73	101	C.5-11	4	20%
Earthworks	Dozer	75	103	C.2-1	2	60%
	Tracked excavator	77	105	C.2-2	2	60%
	Lorry	80	108	C.2-34	2	20%
	8 Wheeled road wagon	56	84	C.4-85	2	20%
	Land Rover 4x4	76	104	C.2-28	2	20%
Bridge Construction	Concrete mixer truck + truck mounted concrete pump + boom arm	78	106	C.4-32	1	10%
	Tracked excavator	85	113	C.1-10	1	50%
	Poker vibrator	69	97	C.4-34	1	10%
	400 t wheeled mobile telescopic crane	78	106	C.4-41	1	20%
	Hydraulic hammer rig	89	117	C.3-1	1	10%
	Dozer	75	103	C.2-1	1	15%
	Lorry	80	108	C.2-34	2	20%

Construction Activity	Equipment	L <sub>Aeq</sub> at 10 m	SWL	Source BS 5228-1	No. Items	Worst Case on-time, % of Working Period
Road Construction	Road Roller	80	108	C.5-19	2	10%
	Vibratory Compacter	82	110	C.5-29	1	10%
	Asphalt paver (+ tipper lorry)	75	103	C.5-33	2	60%
	8 wheeled road wagon	56	84	C.4-85	3	60%
	Compressor	65	93	C.5-5	1	70%
	Dozer	75	103	C.2-1	2	60%
Compound Operation	Generator	61	89	C.4-76	1	100%
	Lorry	80	108	C.2-34	2	20%
	Dozer	75	103	C.2-1	2	20%
Noise Barrier Construction	Hydraulic hammer rig	89	117	C.3-1	1	10 %
	Wheeled mobile crane	70	98	C.3-30	1	50 %
	Gas cutter (cutting top of pile)	68	96	C.3-34	1	20 %
	Tracked excavator	77	105	C.2-2	1	30 %
	Lorry	80	108	C.2-34	2	20 %
Cycle Path Construction	Dozer	75	103	C.2-1	1	30 %
	Tracked excavator	77	105	C.2-2	1	30 %
	Lorry	80	108	C.2-34	1	20 %
	Road Roller	80	108	C.5-19	1	10 %
	Vibratory compacter	82	110	C.5-29	1	10 %
	Asphalt paver (+ tipper lorry)	75	103	C.5-33	1	30 %

- 6.1.1. The plant assumptions stated in **Table 6-1** above were used to calculate the SOAEL zones for both daytime and nighttime referenced in **Section 6.8** of **Chapter 6: Noise and Vibration, Volume 2** of this ES (**Application Document Reference: TR010041/APP/6.2**).
- 6.1.2. It is common practice for the main contractor to work 10 out of 12 hours in the daytime and six out of eight hours in the nighttime. As such, the above percentage on-time have been further corrected for these hours.

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