

Appendix 8.12

Construction Noise Predictions

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Table 1 Predicted construction noise levels from main SRFI site construction activities

Receptor	Height (m)	Predicted Construction Noise Level from activity $L_{Aeq,12hr}$ (dB) free field; Levels are when works are in relatively close proximity to receptor.													
		H. Bulk Earthworks & Onsite Infrastructure	I. Demolition of existing structures	J. Main Site Groundworks	K. Rail Terminal Groundworks	L. Rail Terminal Power Float	M. Container Loading Area	N. Rail Ballast Works	O. Rail P-Way Work	P. Rail Walkways	Qa. Road Construction - Part 1	Qb. Road Construction - Part 2	Qc. Road Construction - Part 3	R. Concreting Activities	S. Main Build
R4 Collingtree Ct	1.5	67	35	55	37	30	31	38	36	33	57	48	47	61	50
R5 Collingtree Ct	1.5	71	35	60	37	28	31	36	34	31	62	53	52	59	49
R6 Watering Ln	1.5	51	34	39	34	24	28	31	29	26	47	37	35	45	44
R8 Hilton West	1.5	54	38	41	32	22	26	30	28	25	46	36	34	49	45
R11 Holiday Inn West	1.5	47	33	34	28	18	22	27	25	22	43	33	30	39	38
R13 Maple Farm South	1.5	72	31	61	38	28	32	53	50	47	54	45	43	63	50
R14 Collingtree Rd	1.5	57	30	44	39	29	33	46	43	40	53	44	42	53	46
R16 Collingtree Rd South	1.5	65	31	53	40	30	34	41	39	35	50	40	38	47	46
R19 Collingtree Rd South	1.5	59	29	47	38	29	32	39	37	33	45	36	34	43	42
R21 Barn Lane	1.5	53	29	41	37	28	31	37	35	31	43	34	32	41	39
R23 Barn Ln	1.5	56	33	44	45	35	39	43	40	37	49	40	38	52	43
R24 Lodge Farm	1.5	62	20	50	51	41	46	50	47	44	53	44	42	55	46
R25 Barn Ln	1.5	46	38	33	42	33	36	36	33	30	42	32	30	41	39
R28 Courteenhall Rd	1.5	39	34	26	38	29	32	34	32	29	40	30	29	32	39
R29 West Lodge Cottages West	1.5	49	36	36	34	24	27	32	30	27	44	34	33	42	39
Key to effect levels:		< LOAEL			Between LOAEL and SOAEL					≥ SOAEL					

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Table 2 Predicted construction noise levels from Roade Bypass construction activities

Receptor	Height (m)	Predicted Construction Noise Level from activity $L_{Aeq,12hr}$ (dB) free field Levels are when works are in relatively close proximity to receptor.				
		T. Enabling Works	Ua. Road Construction - Part 1	Ub. Road Construction - Part 2	Uc. Road Construction - Part 3	V. Bridge Over Railway Line
R38 Hyde Farm	1.5	78	79	70	69	39
R39 Bailey Brooks Ln West	1.5	53	52	43	39	48
R39a Bailey Brooks Ln West	1.5	66	62	53	52	56
R40 London Rd	1.5	58	60	50	49	42
R41 Blisworth Rd N	1.5	76	76	67	66	23
R42 Dovecote Road	1.5	63	61	52	50	40
R43 Abbots Way	1.5	55	54	44	43	45
R46 Blisworth Rd S-Left	1.5	63	62	54	53	19
R47 Blisworth Rd S-Right	1.5	63	63	54	53	31
R49 Hyde Farm House	1.5	63	59	50	49	16
R53 Eliz Wood School	1.5	52	51	42	40	15
R56 Northampton Rd	1.5	67	65	57	56	21
Key to effect levels:						
		< LOAEL	Between LOAEL and SOAEL	≥ SOAEL		