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APPENDIX 11-1

CONSTRUCTION NOISE LEVELS

Appendix 11-1 Construction Noise Levels

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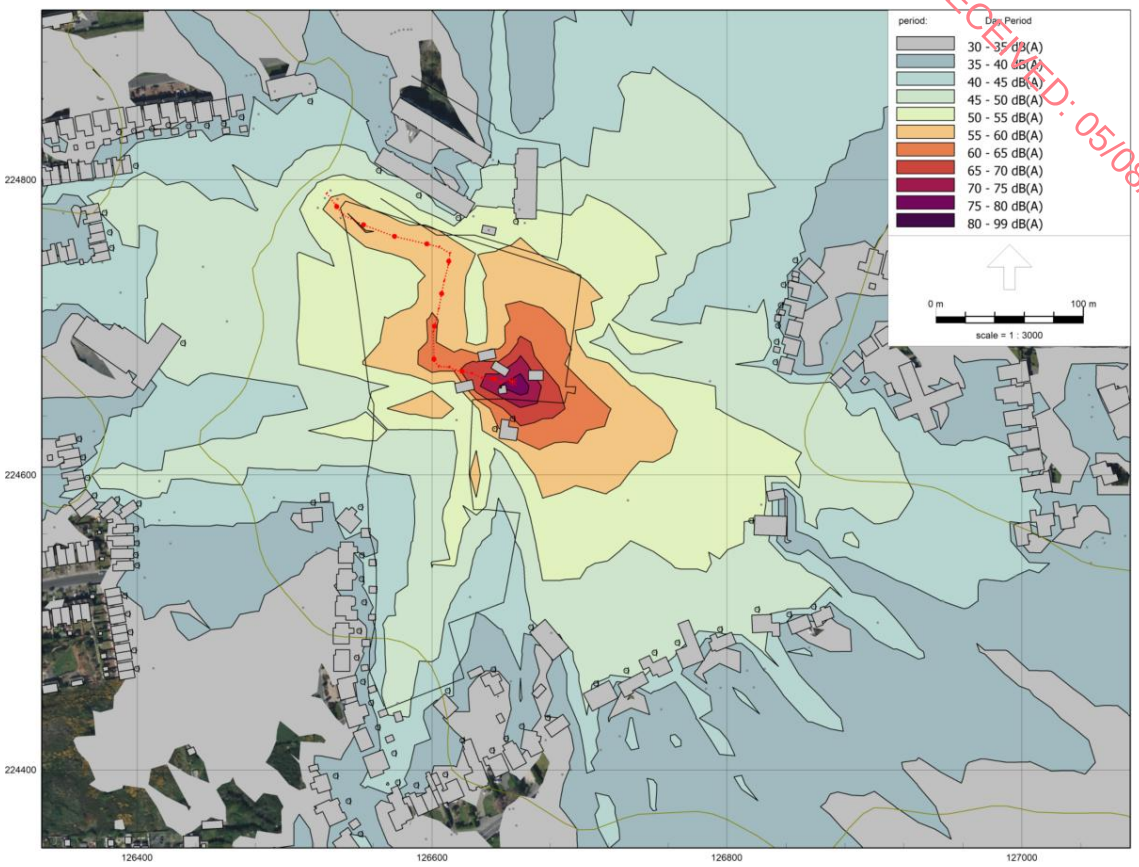


Figure 1 Predicted $L_{Aeq\ 1\ h}$ contours – Construction scenario 1.

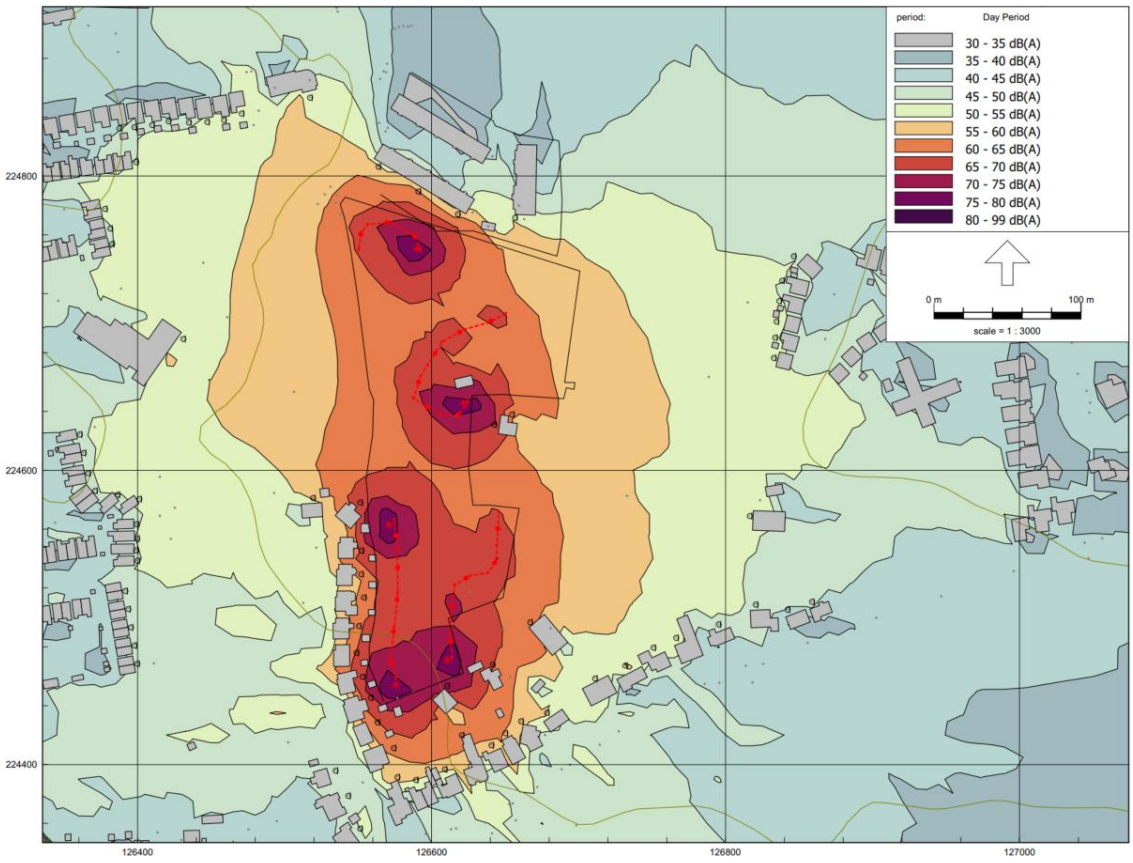


Figure 2 Predicted $L_{Aeq\ 1\ h}$ contours – Construction scenario 2.

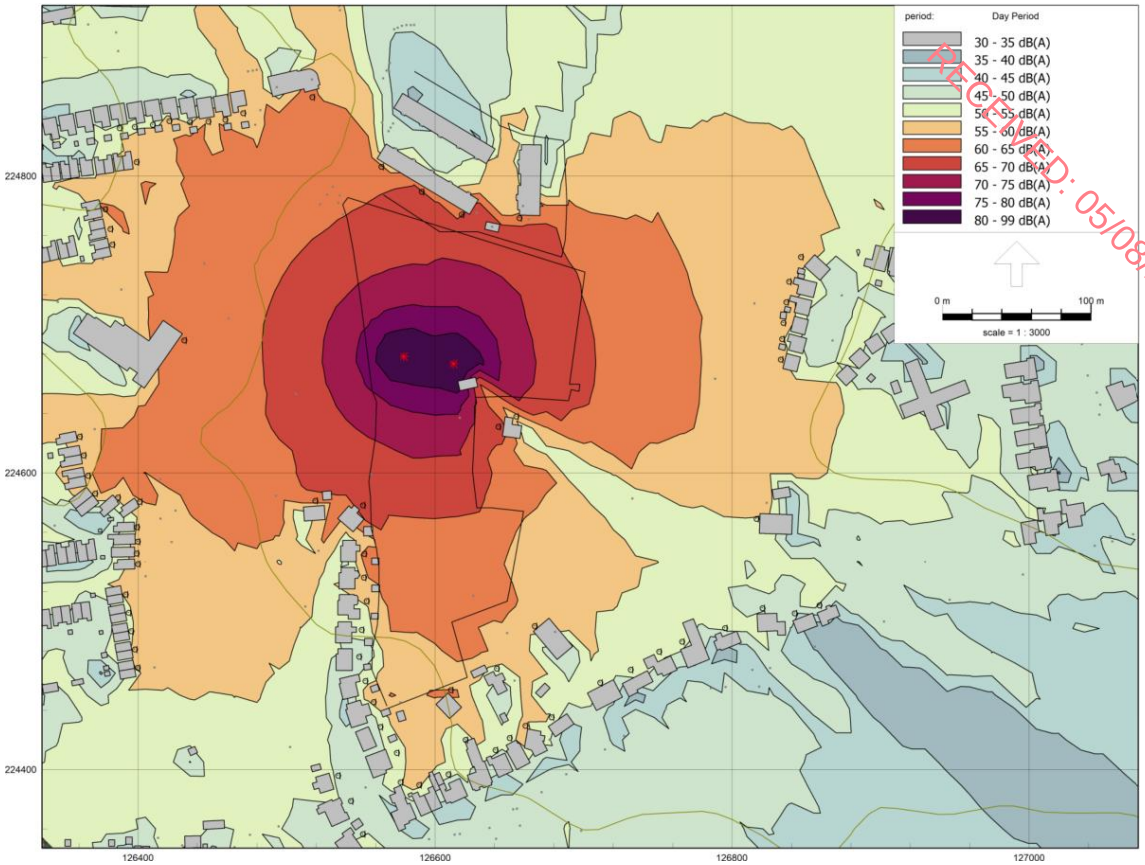


Figure 3 Predicted $L_{Aeq\ 1\ h}$ contours – Construction scenario 3.

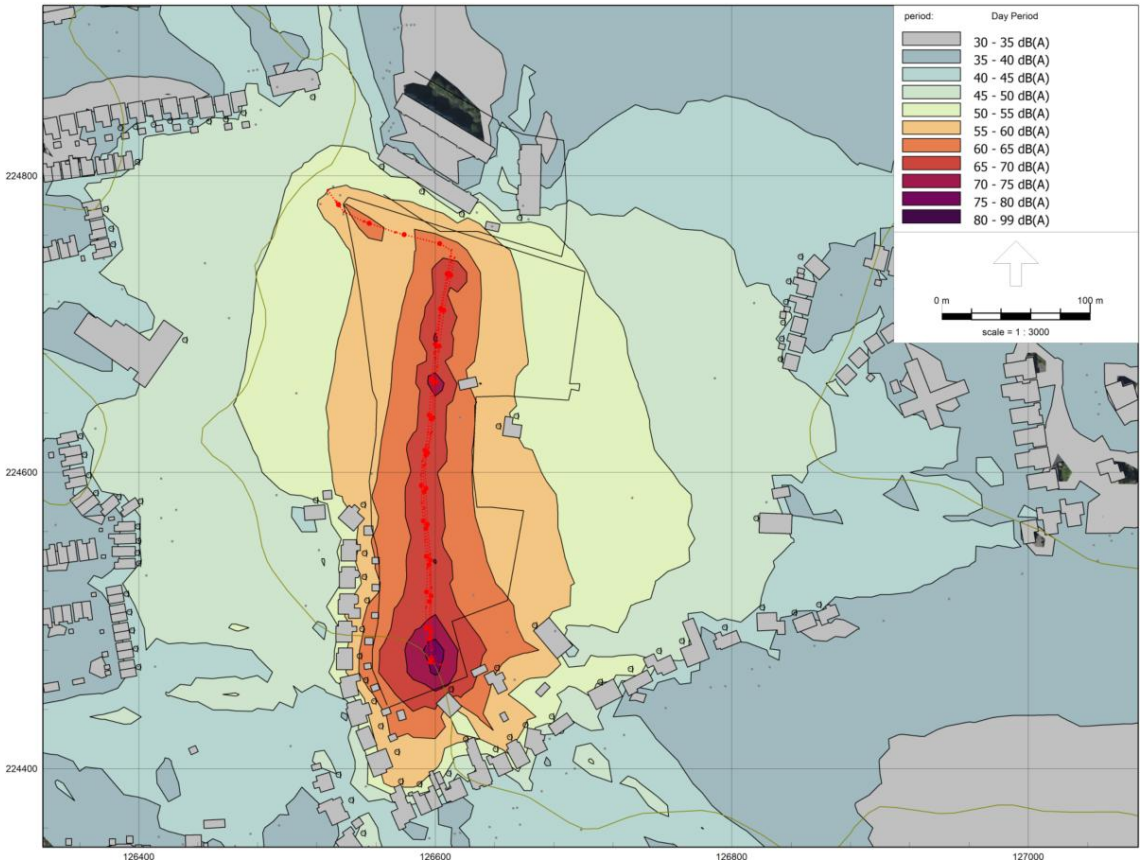


Figure 4 Predicted $L_{Aeq\ 1\ h}$ contours – Construction scenario 4.

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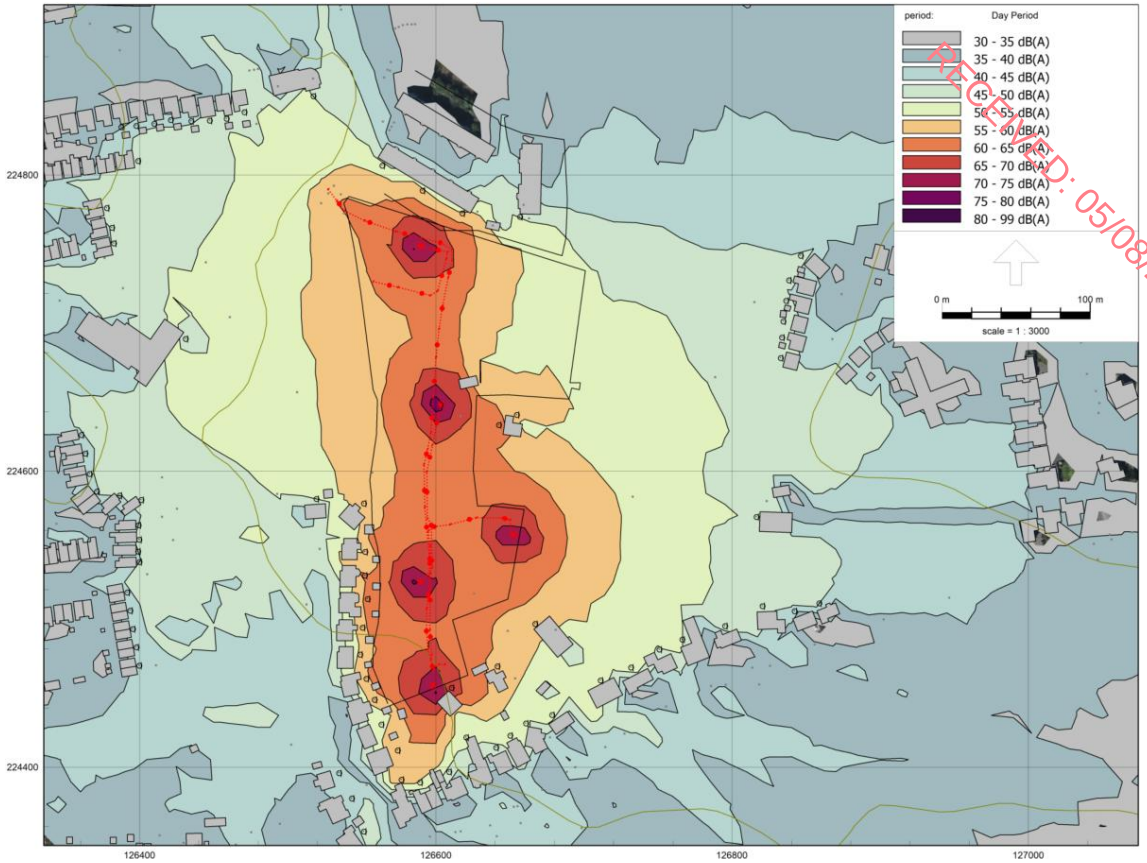


Figure 5 Predicted $L_{Aeq\ 1\ h}$ contours – Construction scenario 5.

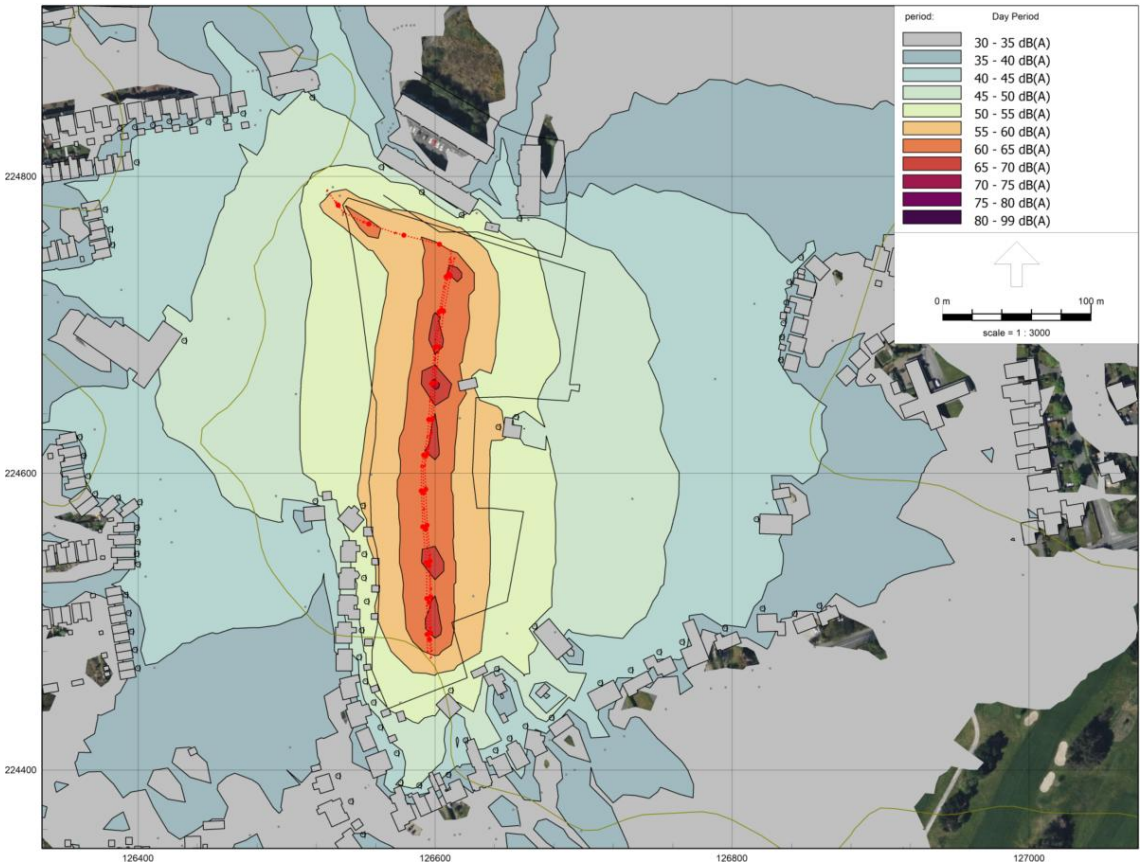


Figure 6 Predicted $L_{Aeq\ 1\ h}$ contours – Construction scenario 6.

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Table 1 Predicted construction phase $L_{Aeq\ 1\ h}$ levels (dB) at receptors – Scenarios 1–3.

Receptor	Scenario 1				Scenario 2				Scenario 3			
	2 m	4 m	6 m	8 m	2 m	4 m	6 m	8 m	2 m	4 m	6 m	8 m
R01	68	-	-	-	68	-	-	-	65	-	-	-
R02	39	39	-	-	52	52	-	-	62	62	-	-
R03	44	43	-	-	67	67	-	-	66	66	-	-
R04	41	40	-	-	67	68	-	-	59	59	-	-
R05	37	37	-	-	63	63	-	-	59	60	-	-
R06	35	35	-	-	63	63	-	-	56	57	-	-
R07	35	35	-	-	63	63	-	-	55	56	-	-
R08	33	34	-	-	64	64	-	-	53	54	-	-
R09	46	46	-	-	69	69	-	-	56	56	-	-
R10	45	45	-	-	71	71	-	-	57	57	-	-
R11	36	38	-	-	62	63	-	-	57	57	-	-
R12	44	45	-	-	58	59	-	-	52	53	-	-
R13	33	37	-	-	45	47	-	-	46	50	-	-
R14	33	37	-	-	44	46	-	-	47	51	-	-
R15	36	38	-	-	52	52	-	-	46	50	-	-
R16	40	40	-	-	71	71	-	-	58	58	-	-
R17	39	39	-	-	61	61	-	-	62	61	-	-
R18	43	43	-	-	62	62	-	-	57	57	-	-
R19	40	40	-	-	58	58	-	-	57	57	-	-
R20	36	37	-	-	59	59	-	-	57	57	-	-
R21	34	36	-	-	61	61	-	-	53	55	-	-
R22	34	35	-	-	62	62	-	-	55	56	-	-
R23	31	32	-	-	60	61	-	-	49	51	-	-
R24	37	37	-	-	60	60	-	-	45	47	-	-
R25	39	39	-	-	58	59	-	-	57	57	-	-
R26	31	33	-	-	55	55	-	-	52	53	-	-
R27	46	46	-	-	53	53	-	-	54	54	-	-
R28	49	49	-	-	54	55	-	-	56	56	-	-
R29	49	49	-	-	54	54	-	-	56	56	-	-
R30	47	46	-	-	54	54	-	-	55	55	-	-
R31	49	48	-	-	50	51	-	-	53	54	-	-
R32	48	48	-	-	50	51	-	-	48	48	-	-
R33	47	47	-	-	48	49	-	-	48	48	-	-
R34	47	47	-	-	48	49	-	-	48	48	-	-
R35	50	50	-	-	53	53	-	-	56	56	-	-
R36	44	44	-	-	52	52	-	-	58	58	-	-
R37	47	47	-	-	53	53	-	-	58	58	-	-
R38	47	46	-	-	54	53	-	-	60	60	-	-
R39	46	46	-	-	52	52	-	-	58	58	-	-
R40	40	41	-	-	52	52	-	-	60	60	-	-
R41	40	40	-	-	50	50	-	-	57	57	-	-
R42	48	53	54	53	48	52	54	55	61	65	66	66
R43	42	48	50	51	56	59	63	64	62	66	67	67
R44	42	46	48	49	55	58	63	63	60	64	64	65
R45	46	47	47	48	55	56	59	60	60	62	63	63
R46	41	41	41	-	53	54	54	-	60	60	59	-
R47	42	42	-	-	55	54	-	-	61	61	-	-
R48	36	36	-	-	48	48	-	-	49	50	-	-
R49	40	40	-	-	53	53	-	-	59	59	-	-
R50	39	39	-	-	49	49	-	-	52	53	-	-
R51	36	36	-	-	48	48	-	-	53	53	-	-
R52	36	36	-	-	47	48	-	-	46	48	-	-
R53	34	35	-	-	45	46	-	-	55	55	-	-
R54	41	41	-	-	48	48	-	-	53	54	-	-
R55	44	44	-	-	52	51	-	-	58	58	-	-
R56	44	44	-	-	51	51	-	-	58	58	-	-
R57	44	44	-	-	52	51	-	-	58	58	-	-

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Receptor	Scenario 1				Scenario 2				Scenario 3			
	2 m	4 m	6 m	8 m	2 m	4 m	6 m	8 m	2 m	4 m	6 m	8 m
R58	44	44	-	-	53	53	-	-	60	60	-	-
R59	48	48	-	-	54	54	-	-	62	61	-	-
R60	38	38	-	-	50	50	-	-	58	58	-	-
R61	40	40	-	-	51	51	-	-	58	58	-	-
R62	44	44	-	-	51	51	-	-	60	60	-	-
R63	46	46	-	-	51	51	-	-	60	60	-	-
R64	44	44	-	-	50	50	-	-	58	58	-	-
R65	47	46	-	-	52	52	-	-	60	60	-	-
R66	40	40	-	-	51	51	-	-	58	58	-	-
R67	39	39	-	-	51	51	-	-	58	58	-	-
R68	39	38	-	-	51	51	-	-	58	58	-	-
R69	38	38	-	-	50	50	-	-	58	58	-	-
R70	38	38	-	-	51	51	-	-	59	59	-	-
R71	36	37	-	-	51	51	-	-	59	59	-	-
R72	36	36	-	-	49	49	-	-	59	59	-	-
R73	35	35	-	-	49	49	-	-	59	59	-	-
R74	34	34	-	-	48	48	-	-	55	55	-	-

Table 2 Predicted construction phase $L_{Aeq\ 1\ h}$ levels (dB) at receptors – Scenarios 4-6.

Receptor	Scenario 4				Scenario 5				Scenario 6			
	2 m	4 m	6 m	8 m	2 m	4 m	6 m	8 m	2 m	4 m	6 m	8 m
R01	58	-	-	-	60	-	-	-	64	-	-	-
R02	46	47	-	-	48	48	-	-	44	44	-	-
R03	59	59	-	-	58	58	-	-	56	56	-	-
R04	60	60	-	-	59	58	-	-	55	55	-	-
R05	60	60	-	-	60	60	-	-	55	55	-	-
R06	62	62	-	-	61	61	-	-	54	54	-	-
R07	62	62	-	-	58	58	-	-	51	52	-	-
R08	62	62	-	-	59	59	-	-	50	50	-	-
R09	62	62	-	-	59	59	-	-	52	52	-	-
R10	62	62	-	-	59	59	-	-	50	50	-	-
R11	54	55	-	-	55	55	-	-	45	45	-	-
R12	58	58	-	-	56	57	-	-	44	44	-	-
R13	39	42	-	-	37	41	-	-	31	35	-	-
R14	39	42	-	-	37	41	-	-	31	35	-	-
R15	45	46	-	-	50	50	-	-	31	34	-	-
R16	68	68	-	-	69	69	-	-	53	53	-	-
R17	57	57	-	-	57	57	-	-	53	53	-	-
R18	59	59	-	-	58	58	-	-	50	50	-	-
R19	57	57	-	-	57	57	-	-	47	47	-	-
R20	56	56	-	-	56	56	-	-	46	46	-	-
R21	53	53	-	-	57	57	-	-	39	41	-	-
R22	48	49	-	-	52	52	-	-	41	42	-	-
R23	57	57	-	-	49	49	-	-	45	45	-	-
R24	57	57	-	-	52	52	-	-	43	43	-	-
R25	56	57	-	-	50	50	-	-	43	43	-	-
R26	50	51	-	-	53	53	-	-	45	45	-	-
R27	49	49	-	-	50	50	-	-	44	44	-	-
R28	53	52	-	-	52	52	-	-	45	45	-	-
R29	48	49	-	-	50	51	-	-	44	44	-	-
R30	49	50	-	-	52	52	-	-	45	45	-	-
R31	45	46	-	-	49	50	-	-	42	43	-	-
R32	45	46	-	-	48	48	-	-	42	42	-	-
R33	44	44	-	-	47	47	-	-	41	41	-	-
R34	44	45	-	-	47	47	-	-	41	41	-	-
R35	49	49	-	-	49	48	-	-	44	43	-	-
R36	47	47	-	-	49	48	-	-	42	42	-	-
R37	48	47	-	-	49	49	-	-	43	43	-	-

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Receptor	Scenario 4				Scenario 5				Scenario 6			
	2 m	4 m	6 m	8 m	2 m	4 m	6 m	8 m	2 m	4 m	6 m	8 m
R38	48	48	-	-	50	50	-	-	44	44	-	-
R39	47	47	-	-	48	48	-	-	43	42	-	-
R40	46	47	-	-	48	48	-	-	43	43	-	-
R41	44	45	-	-	45	46	-	-	40	41	-	-
R42	46	51	52	52	43	49	50	51	43	48	49	50
R43	48	54	55	55	51	55	60	60	46	52	53	53
R44	47	51	54	54	50	54	59	59	45	48	51	52
R45	49	50	52	52	50	52	56	56	47	48	50	50
R46	46	47	47	-	50	50	50	-	44	44	44	-
R47	48	48	-	-	51	50	-	-	46	45	-	-
R48	40	40	-	-	46	46	-	-	38	38	-	-
R49	47	47	-	-	50	49	-	-	44	43	-	-
R50	41	41	-	-	45	45	-	-	39	39	-	-
R51	41	41	-	-	44	43	-	-	39	39	-	-
R52	40	41	-	-	45	45	-	-	38	38	-	-
R53	42	42	-	-	41	41	-	-	39	39	-	-
R54	40	40	-	-	43	43	-	-	38	38	-	-
R55	45	45	-	-	48	47	-	-	43	43	-	-
R56	45	45	-	-	48	48	-	-	43	43	-	-
R57	45	45	-	-	48	48	-	-	42	42	-	-
R58	46	46	-	-	49	49	-	-	44	44	-	-
R59	48	48	-	-	49	49	-	-	45	45	-	-
R60	44	44	-	-	45	45	-	-	41	41	-	-
R61	45	45	-	-	46	46	-	-	42	42	-	-
R62	46	46	-	-	47	47	-	-	43	43	-	-
R63	46	46	-	-	47	46	-	-	43	43	-	-
R64	44	44	-	-	46	45	-	-	41	41	-	-
R65	47	47	-	-	48	48	-	-	44	43	-	-
R66	47	47	-	-	48	48	-	-	42	42	-	-
R67	46	46	-	-	47	47	-	-	42	42	-	-
R68	45	45	-	-	46	46	-	-	42	41	-	-
R69	45	45	-	-	46	46	-	-	41	41	-	-
R70	47	46	-	-	47	47	-	-	42	42	-	-
R71	49	49	-	-	47	46	-	-	42	42	-	-
R72	45	45	-	-	46	46	-	-	41	41	-	-
R73	45	45	-	-	45	45	-	-	41	41	-	-
R74	43	43	-	-	43	43	-	-	38	38	-	-

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