

Noise and Vibration Impact Assessment

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Sydney Water
IN.P0001436

Quakers Hill WRRF Advanced Treatment Upgrade
5 September 2025



Noise and Vibration Impact Assessment

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Appendix A. Noise monitoring data

Noise and Vibration Impact Assessment

Measurement point	Noise catchment area	Date	Address	Meteorological data monitoring location	Rating background level, dB(A)			Serial Number
					Day	Eve	Night	
MP1	NCA 01	18 th Mar – 1 st Apr	6 Chaplin Crescent, Quakers Hill	6 Chaplin Crescent, Quakers Hill	40	42	41	131818
MP2	NCA 02	18 th Mar – 1 st Apr	12 Ebony Crescent, Quakers Hill	6 Chaplin Crescent, Quakers Hill	39	43	45	131814
MP3	NCA 03	19 th Mar – 1 st Apr	21 Jasmine Ave, Quakers Hill	6 Chaplin Crescent, Quakers Hill	37	40	38	98091
MP4	NCA 04	26 th Mar – 7 th Apr	83 Harold St, Blacktown	Parramatta North air quality monitoring station	38	38	35	46003
MP5	NAC 05	18 th Mar – 1 st Apr	32A Janice St, Seven Hills	32A Janice St, Seven Hills	38	40	44	131817

A.1 Additional information

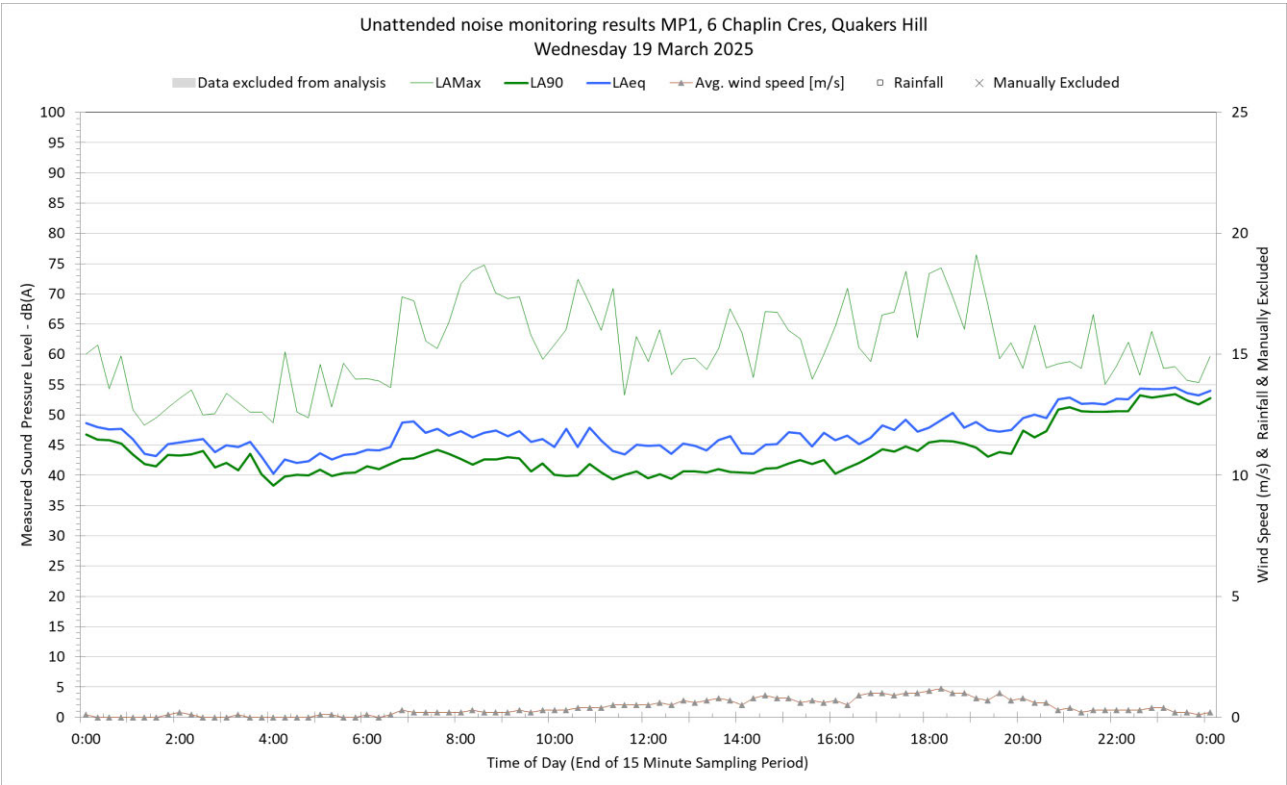
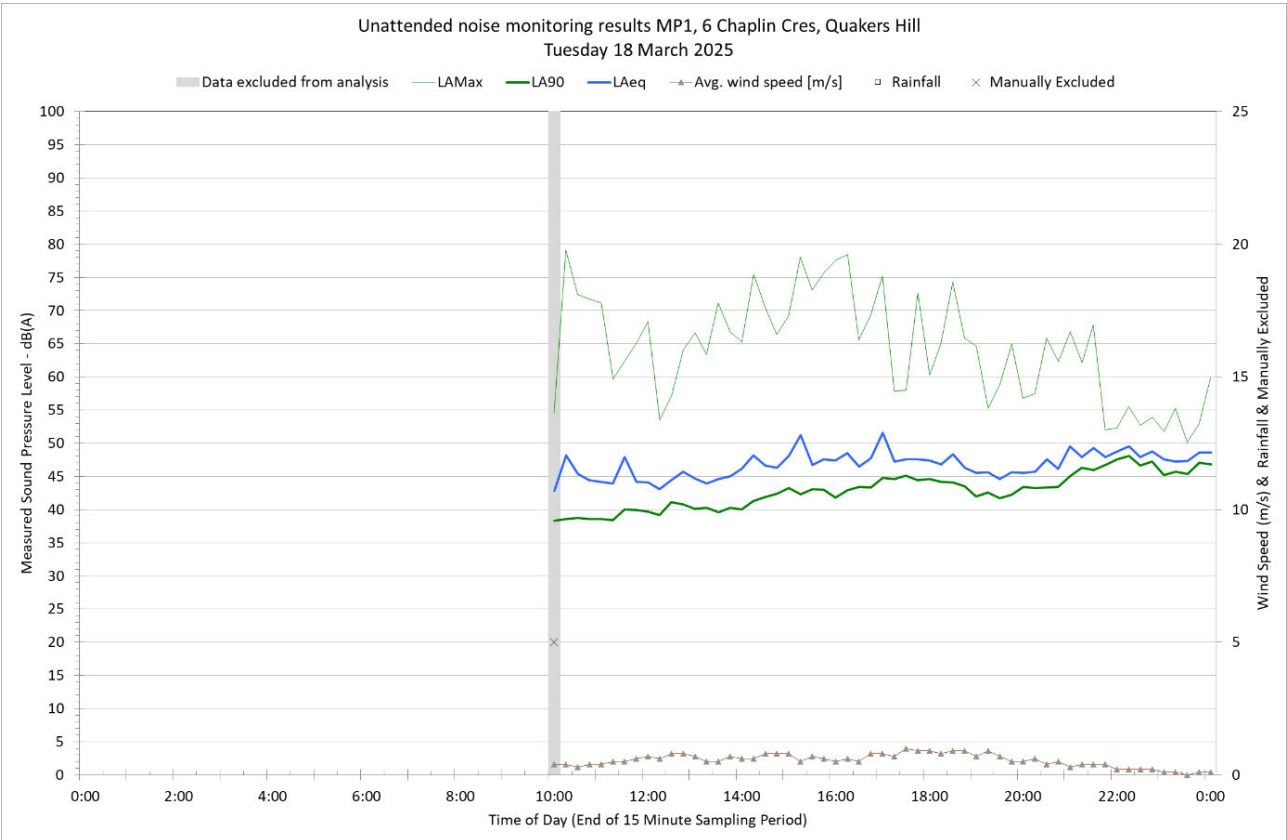
A.1.1 MP1, 6 Chaplin Crescent, Quakers Hill



Noise and Vibration Impact Assessment

Day and date	Parameter	Time period 18 th Mar – 1 st Apr2025		
		Standard hours	OOHW Period 1	OOHW Period 2
Tue 18/03/2025	L _{Aeq,T}	57	47	46
	RBL	39	42	40
Wed 19/03/2025	L _{Aeq,T}	46	50	52
	RBL	40	44	41
Thu 20/03/2025	L _{Aeq,T}	46	49	52
	RBL	40	45	43
Fri 21/03/2025	L _{Aeq,T}	48	49	50
	RBL	41	46	38
Sat 22/03/2025	L _{Aeq,T}	46	49	-
	RBL	38	42	-
Sun 23/03/2025	L _{Aeq,T}	46	46	47
	RBL	42	38	41
Mon 24/12/2024	L _{Aeq,T}	46	49	47
	RBL	41	41	42
Tue 25/03/2025	L _{Aeq,T}	47	48	48
	RBL	39	40	41
Wed 26/03/2025	L _{Aeq,T}	47	48	51
	RBL	40	41	40
Thu 27/03/2025	L _{Aeq,T}	46	48	50
	RBL	39	41	42
Fri 28/03/2025	L _{Aeq,T}	47	-	-
	RBL	39	-	-
Sat 29/03/2025	L _{Aeq,T}	-	47	-
	RBL	-	42	-
Sun 30/03/2025	L _{Aeq,T}	-	-	-
	RBL	-	-	-
Mon 31/03/2025	L _{Aeq,T}	51	47	45
	RBL	44	42	39
Average	L _{Aeq,T}	48	48	49
	RBL	40	42	41

Noise and Vibration Impact Assessment



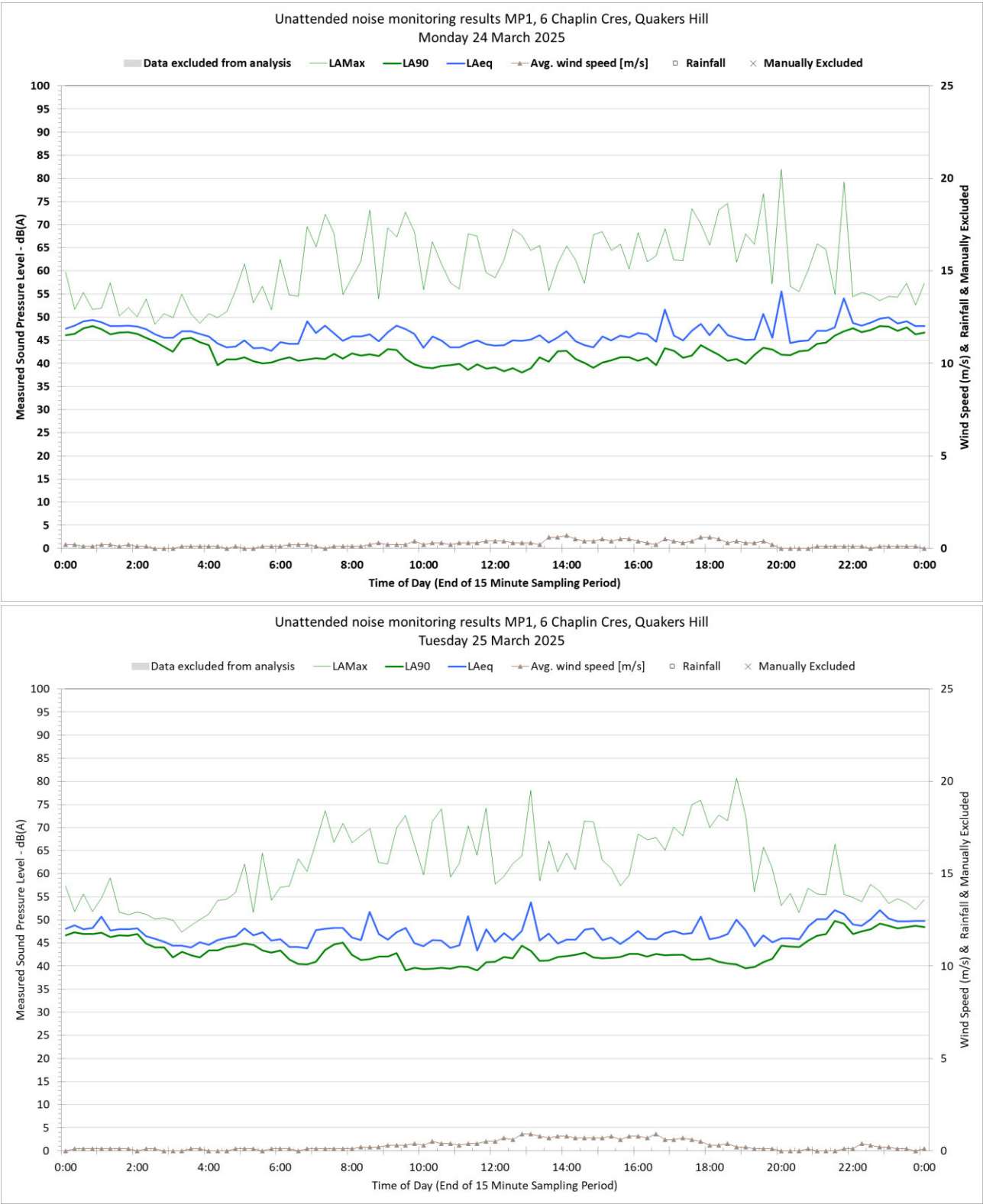
Noise and Vibration Impact Assessment



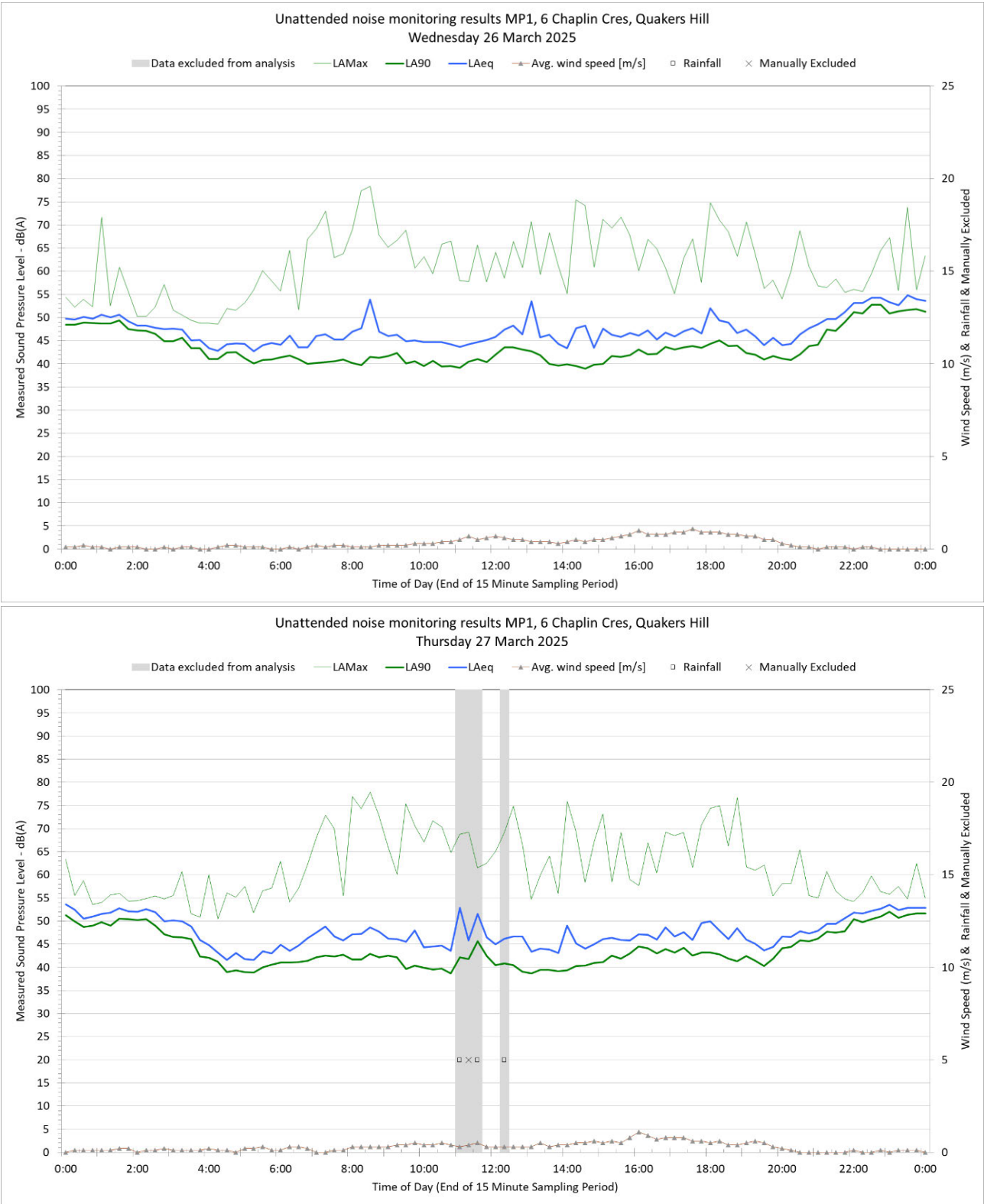
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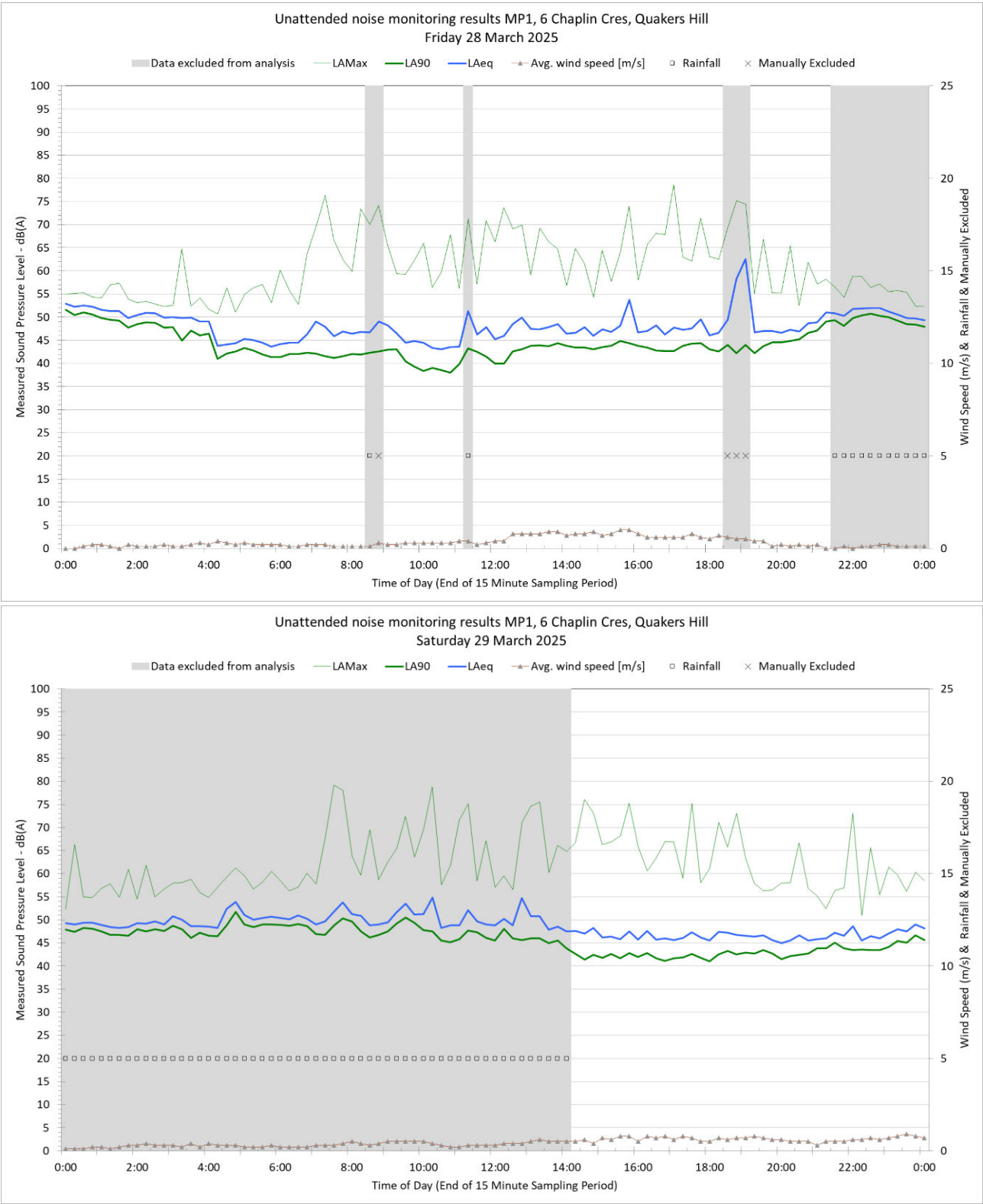
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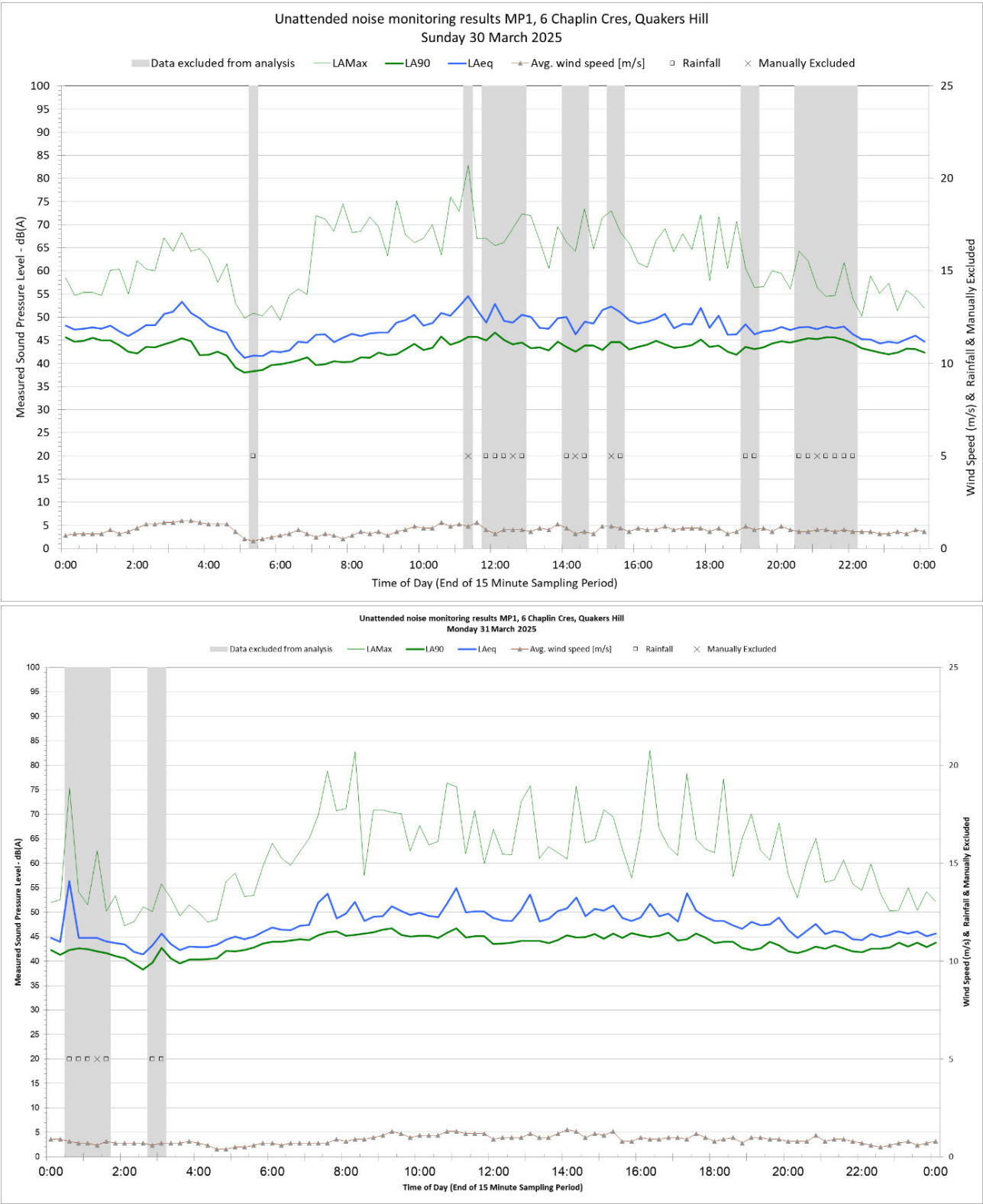
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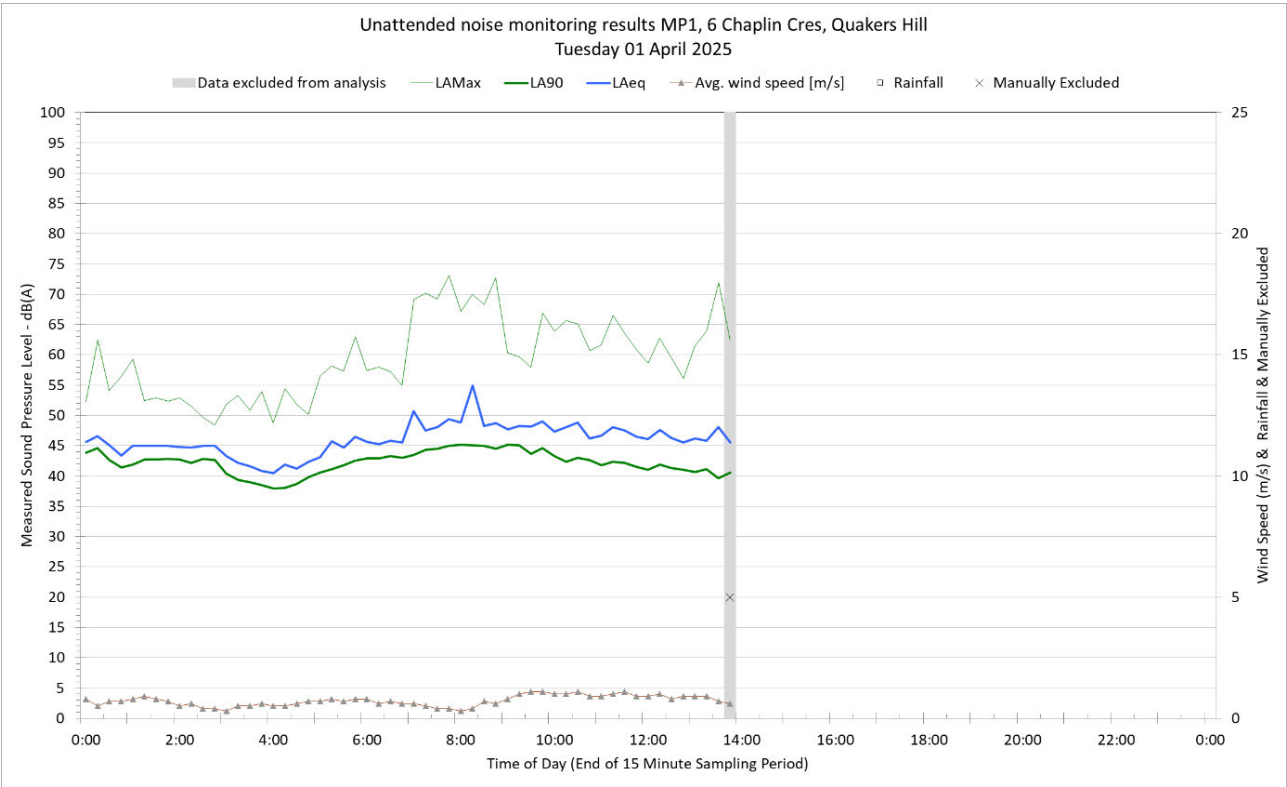
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A.1.2 MP2, 12 Ebony Crescent, Quakers Hill



Noise and Vibration Impact Assessment

Day and date	Parameter	Time period 18 th Mar – 1 st Apr2025		
		Standard hours	OOHW Period 1	OOHW Period 2
Tue 18/03/2025	L _{Aeq,T}	53	-	59
	RBL	38	-	45
Wed 19/03/2025	L _{Aeq,T}	56	51	58
	RBL	39	45	48
Thu 20/03/2025	L _{Aeq,T}	53	51	59
	RBL	39	45	46
Fri 21/03/2025	L _{Aeq,T}	-	50	58
	RBL	-	46	47
Sat 22/03/2025	L _{Aeq,T}	55	49	-
	RBL	37	42	-
Sun 23/03/2025	L _{Aeq,T}	48	50	60
	RBL	44	38	40
Mon 24/12/2024	L _{Aeq,T}	49	50	59
	RBL	40	41	43
Tue 25/03/2025	L _{Aeq,T}	50	48	58
	RBL	40	39	42
Wed 26/03/2025	L _{Aeq,T}	53	49	57
	RBL	39	45	45
Thu 27/03/2025	L _{Aeq,T}	48	48	54
	RBL	38	42	41
Fri 28/03/2025	L _{Aeq,T}	51	50	-
	RBL	39	43	-
Sat 29/03/2025	L _{Aeq,T}	-	53	57
	RBL	-	44	45
Sun 30/03/2025	L _{Aeq,T}	-	-	-
	RBL	-	-	-
Mon 31/03/2025	L _{Aeq,T}	54	55	-
	RBL	44	45	-
Average	L _{Aeq,T}	52	50	58
	RBL	39	43	45

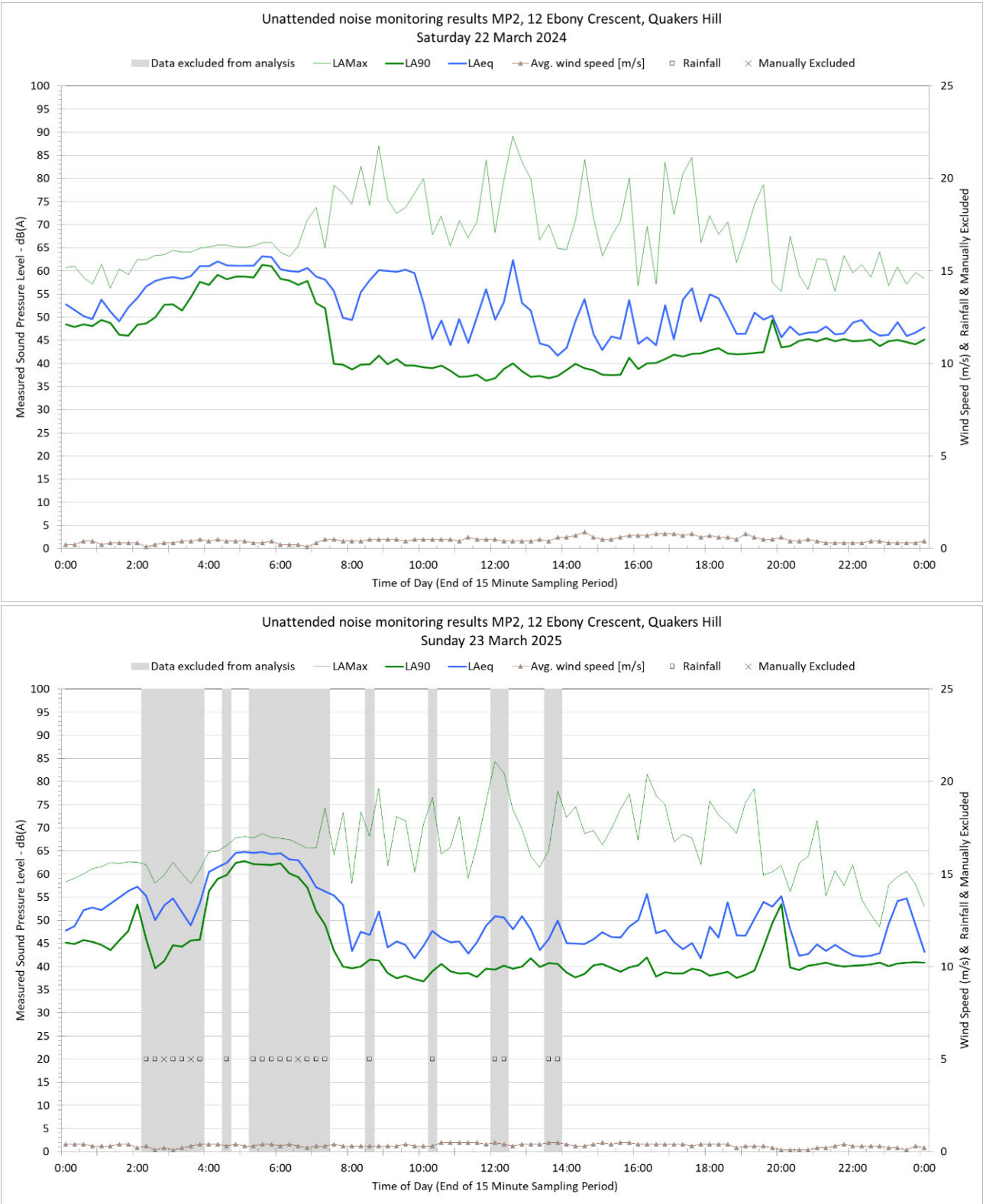
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Noise and Vibration Impact Assessment



Noise and Vibration Impact Assessment



Noise and Vibration Impact Assessment



Noise and Vibration Impact Assessment



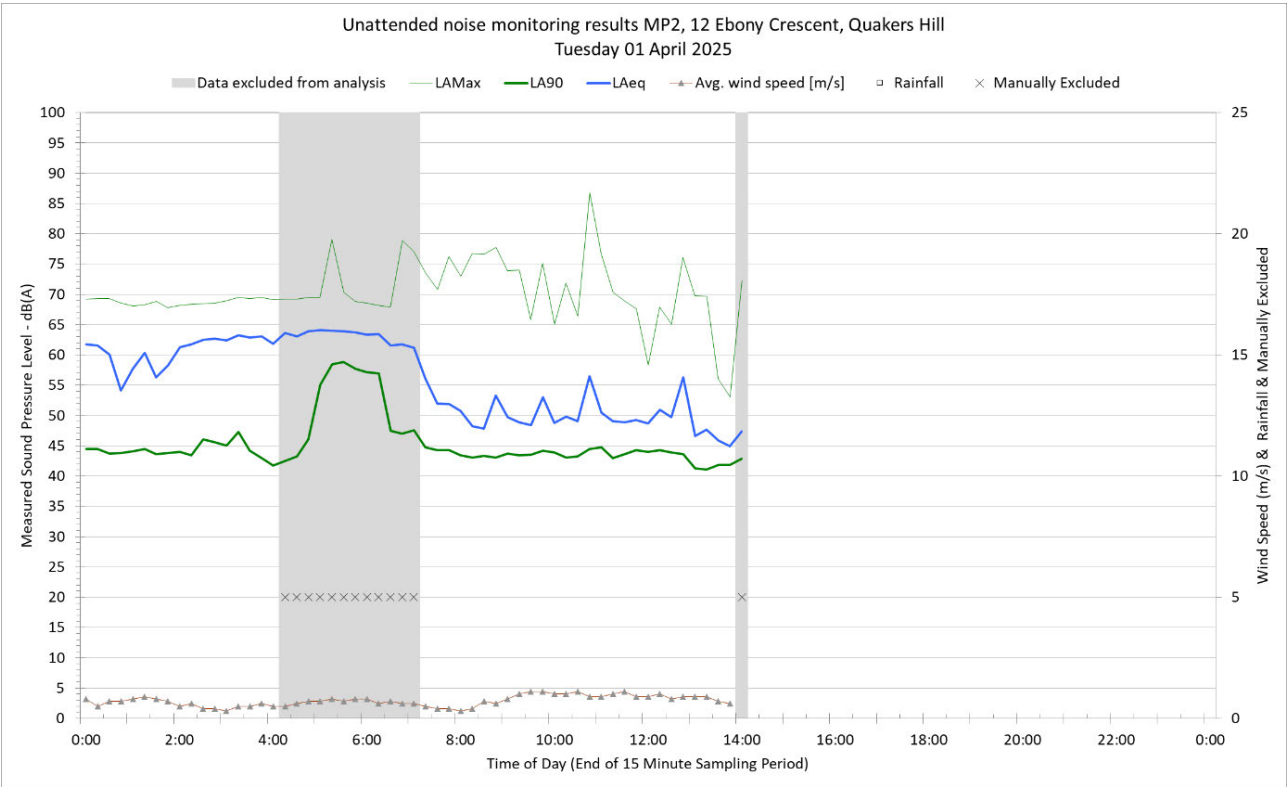
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A.1.3 MP3, 21 Jasmine Ave, Quakers Hill



Noise and Vibration Impact Assessment

Day and date	Parameter	Time period 19 th Mar – 1 st Apr 2025		
		Standard hours	OOHW Period 1	OOHW Period 2
Wed 19/03/2025	L _{Aeq,T}	86	50	47
	RBL	37	42	42
Thu 20/03/2025	L _{Aeq,T}	49	50	47
	RBL	36	42	43
Fri 21/03/2025	L _{Aeq,T}	-	45	46
	RBL	-	42	41
Sat 22/03/2025	L _{Aeq,T}	55	50	-
	RBL	35	40	-
Sun 23/03/2025	L _{Aeq,T}	-	48	45
	RBL	-	35	39
Mon 24/12/2024	L _{Aeq,T}	54	49	47
	RBL	39	37	37
Tue 25/03/2025	L _{Aeq,T}	54	56	43
	RBL	37	37	39
Wed 26/03/2025	L _{Aeq,T}	51	52	44
	RBL	35	40	38
Thu 27/03/2025	L _{Aeq,T}	50	49	42
	RBL	36	39	37
Fri 28/03/2025	L _{Aeq,T}	52	48	-
	RBL	37	40	-
Sat 29/03/2025	L _{Aeq,T}	-	-	46
	RBL	-	-	37
Sun 30/03/2025	L _{Aeq,T}	-	-	-
	RBL	-	-	-
Mon 31/03/2025	L _{Aeq,T}	52	50	43
	RBL	43	41	37
Average	L _{Aeq,T}	56	50	45
	RBL	37	40	38

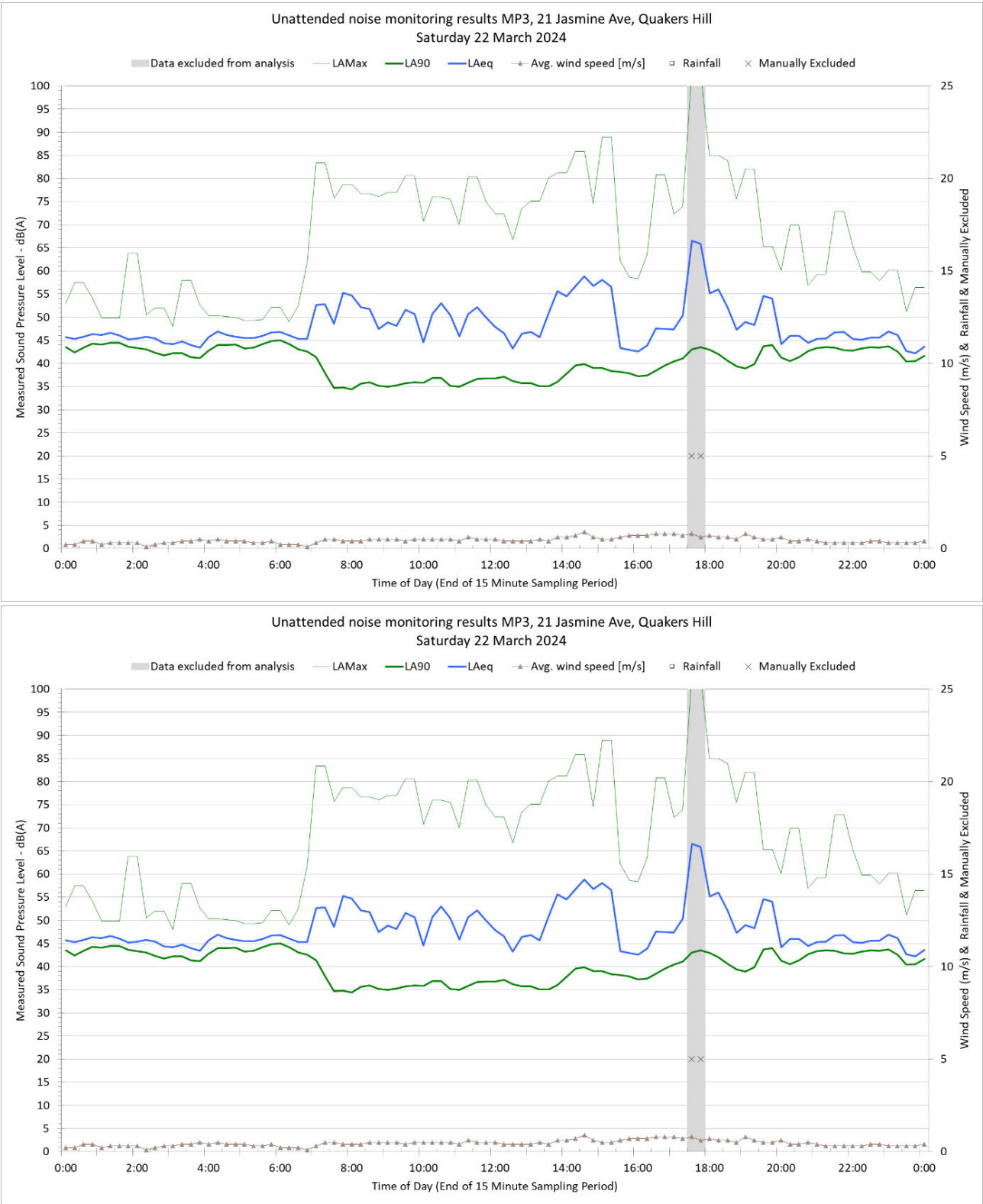
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Noise and Vibration Impact Assessment



Noise and Vibration Impact Assessment



Noise and Vibration Impact Assessment



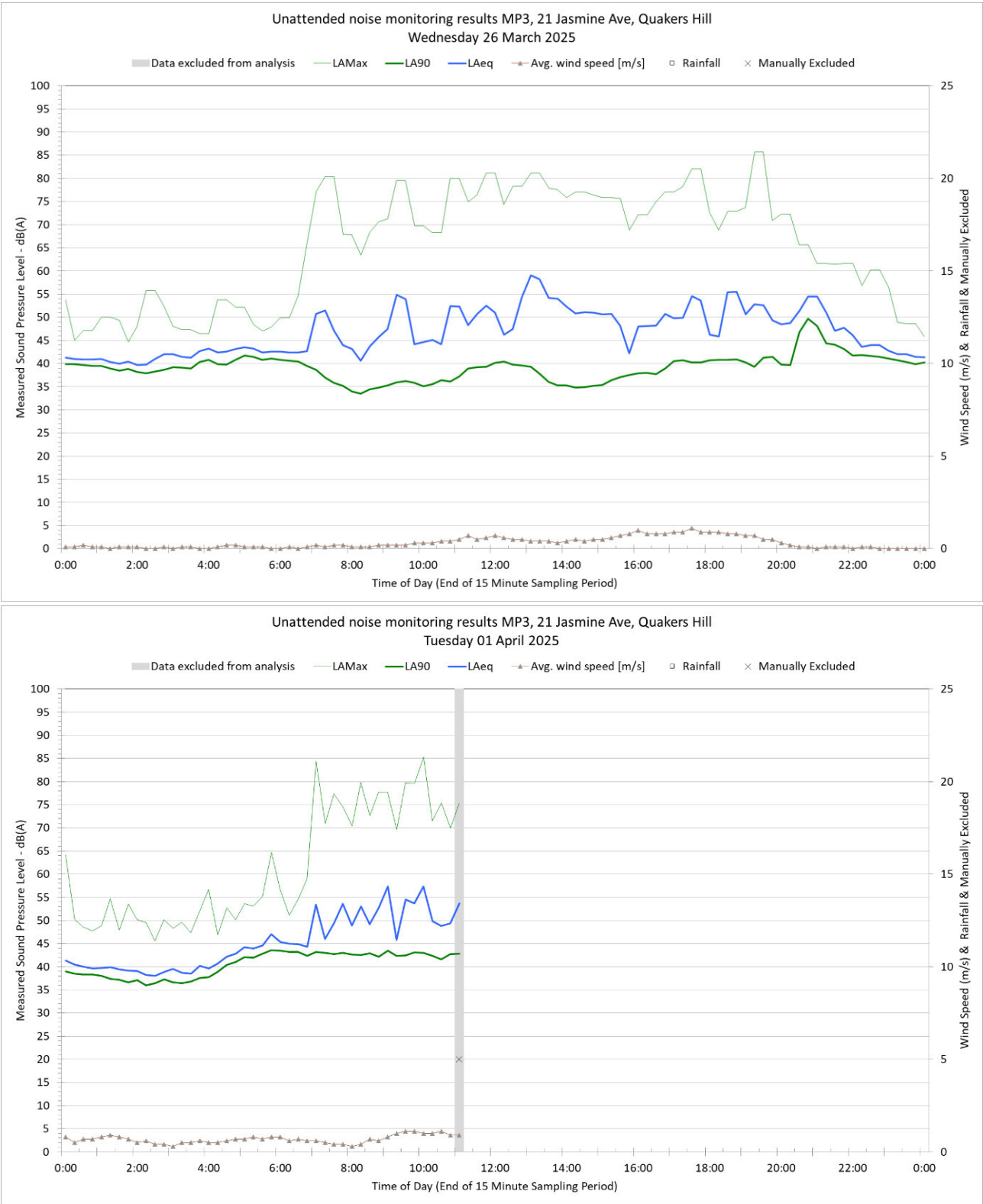
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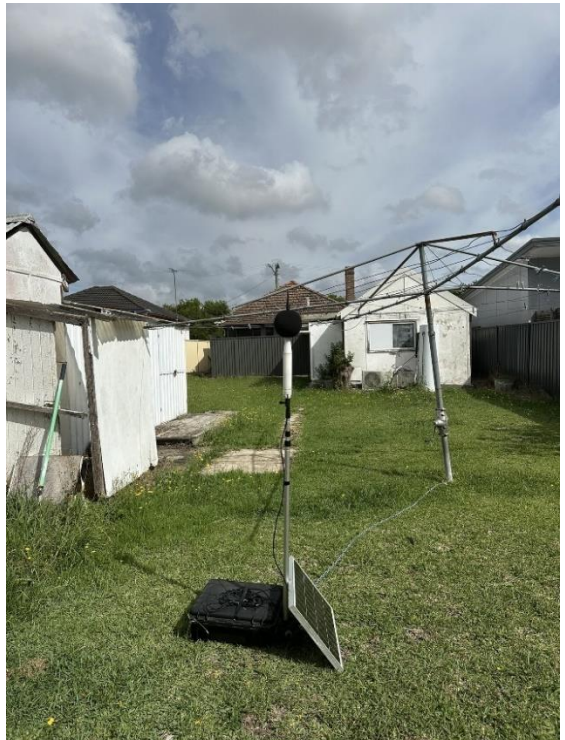
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Noise and Vibration Impact Assessment



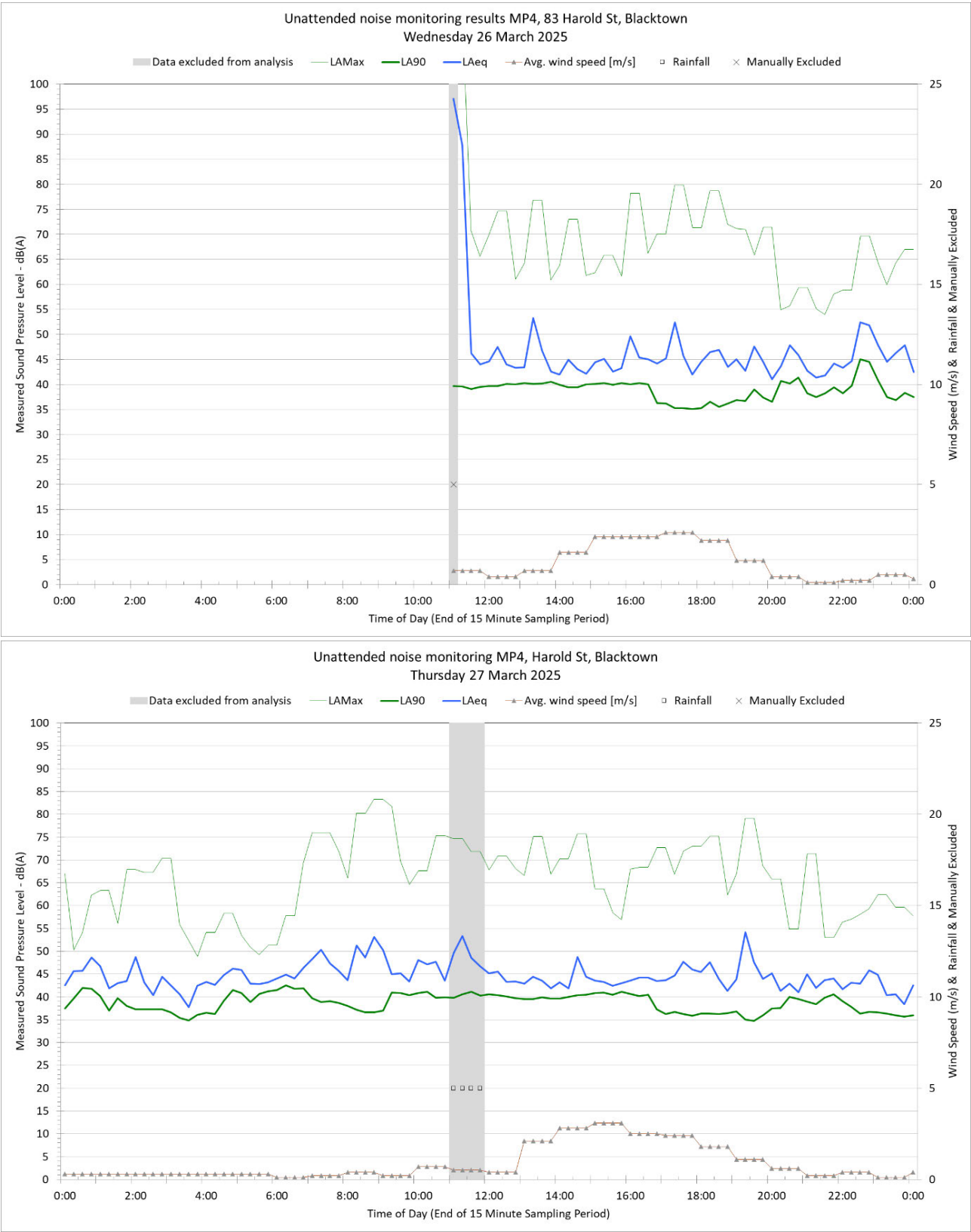
A.1.4 MP4, 83 Harold St, Blacktown



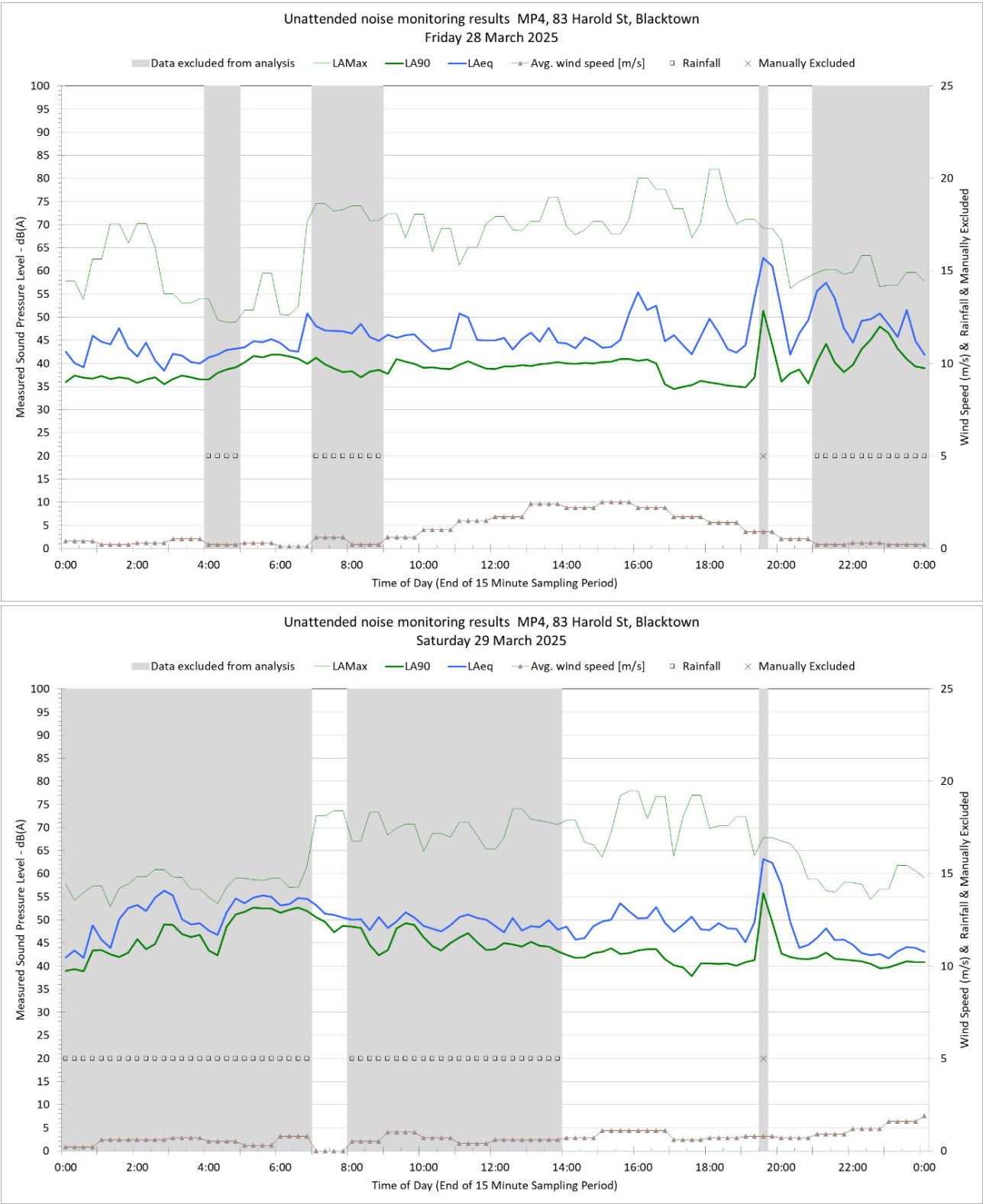
Noise and Vibration Impact Assessment

Day and date	Parameter	Time period 26 th Mar –6 th Apr2025		
		Standard hours	OOHW Period 1	OOHW Period 2
Wed 26/03/2025	L _{Aeq,T}	73	45	46
	RBL	35	36	35
Thu 27/03/2025	L _{Aeq,T}	46	46	-
	RBL	37	36	-
Fri 28/03/2025	L _{Aeq,T}	47	-	-
	RBL	36	-	-
Sat 29/03/2025	L _{Aeq,T}	-	55	-
	RBL	-	41	-
Sun 30/03/2025	L _{Aeq,T}	-	-	-
	RBL	-	-	-
Mon 31/03/2025	L _{Aeq,T}	51	47	43
	RBL	43	41	36
Tue 01/04/2025	L _{Aeq,T}	48	44	41
	RBL	40	40	34
Wed 02/04/2025	L _{Aeq,T}	49	-	43
	RBL	38	-	34
Thu 03/04/2025	L _{Aeq,T}	47	49	43
	RBL	39	38	35
Fri 04/04/2025	L _{Aeq,T}	47	42	45
	RBL	38	36	38
Sat 05/04/2025	L _{Aeq,T}	46	46	39
	RBL	39	36	32
Sun 06/04/2025	L _{Aeq,T}	48	46	44
	RBL	33	36	35
Average	L _{Aeq,T}	50	47	43
	RBL	38	38	35

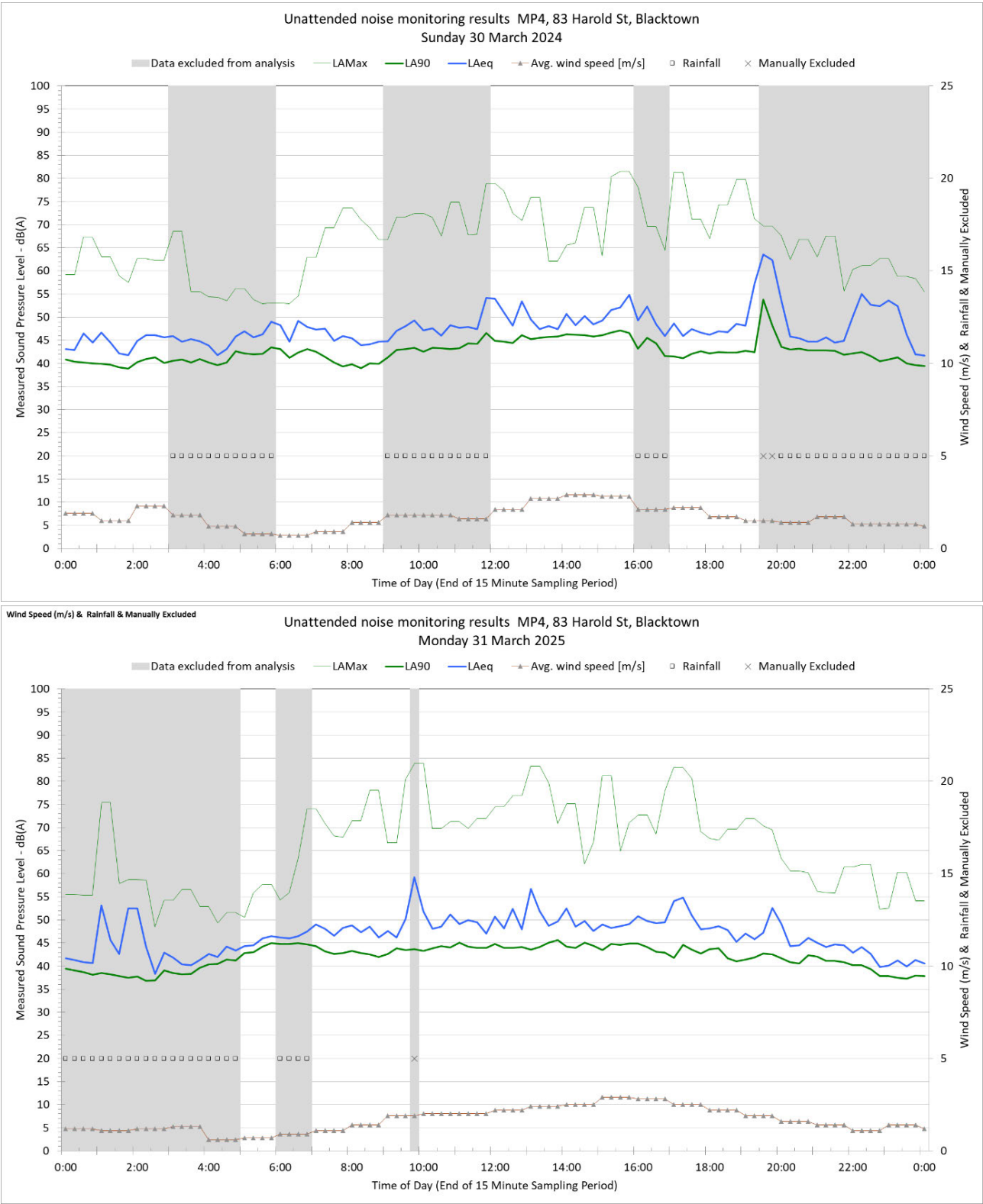
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Noise and Vibration Impact Assessment



Noise and Vibration Impact Assessment



Noise and Vibration Impact Assessment



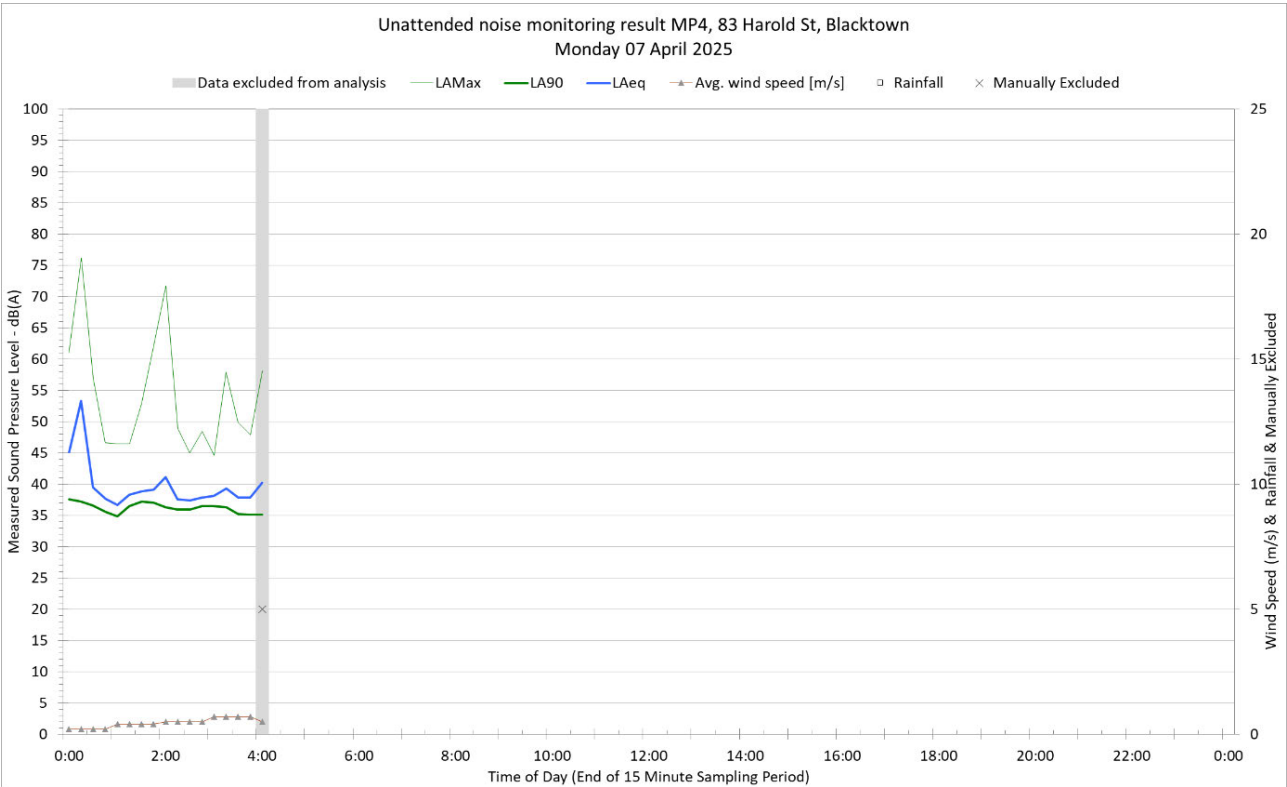
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Noise and Vibration Impact Assessment



Noise and Vibration Impact Assessment



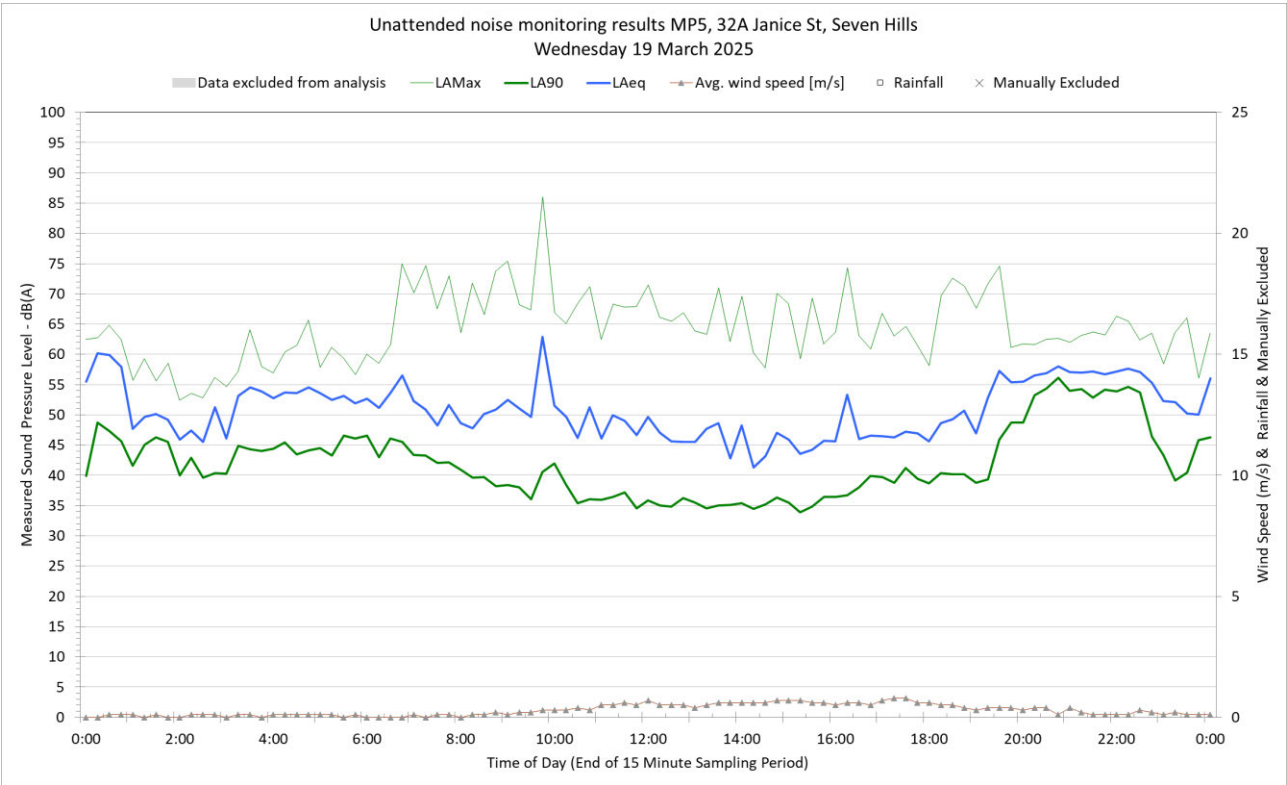
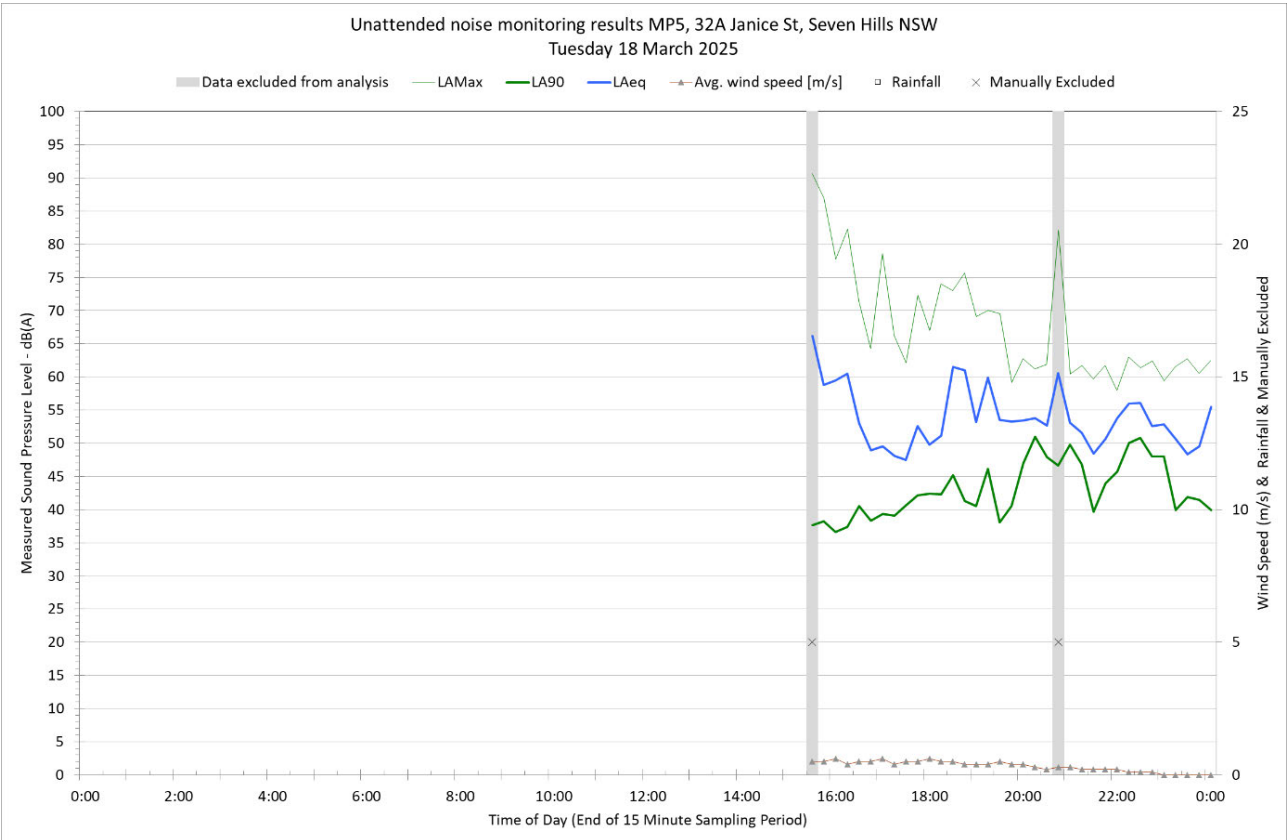
A.1.5 MP5, 32A Janice St, Seven Hills



Noise and Vibration Impact Assessment

Day and date	Parameter	Time period 18 th Mar – 1 st Apr2025		
		Standard hours	OOHW Period 1	OOHW Period 2
Tue 18/03/2025	L _{Aeq,T}	54	56	54
	RBL	37	40	40
Wed 19/03/2025	L _{Aeq,T}	51	56	56
	RBL	35	40	42
Thu 20/03/2025	L _{Aeq,T}	48	54	56
	RBL	34	40	46
Fri 21/03/2025	L _{Aeq,T}	48	56	58
	RBL	35	46	43
Sat 22/03/2025	L _{Aeq,T}	49	53	-
	RBL	38	42	-
Sun 23/03/2025	L _{Aeq,T}	51	57	58
	RBL	42	40	40
Mon 24/12/2024	L _{Aeq,T}	50	51	59
	RBL	41	36	44
Tue 25/03/2025	L _{Aeq,T}	52	56	60
	RBL	38	38	44
Wed 26/03/2025	L _{Aeq,T}	52	58	58
	RBL	36	40	47
Thu 27/03/2025	L _{Aeq,T}	53	54	58
	RBL	40	40	47
Fri 28/03/2025	L _{Aeq,T}	53	51	-
	RBL	38	38	-
Sat 29/03/2025	L _{Aeq,T}	-	56	57
	RBL	-	43	48
Sun 30/03/2025	L _{Aeq,T}	-	-	-
	RBL	-	-	-
Mon 31/03/2025	L _{Aeq,T}	54	58	58
	RBL	47	46	49
Average	L _{Aeq,T}	51	55	57
	RBL	38	40	44

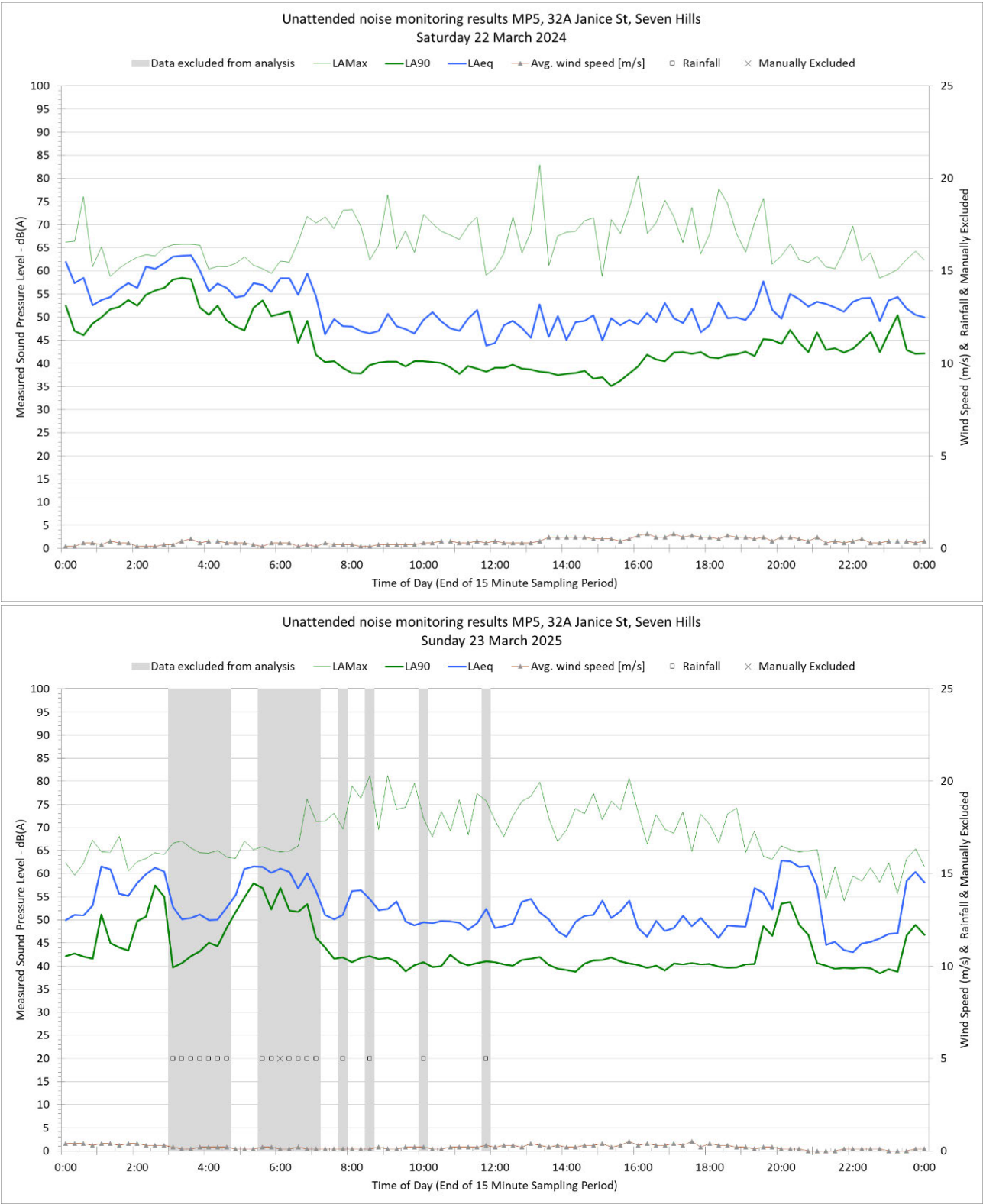
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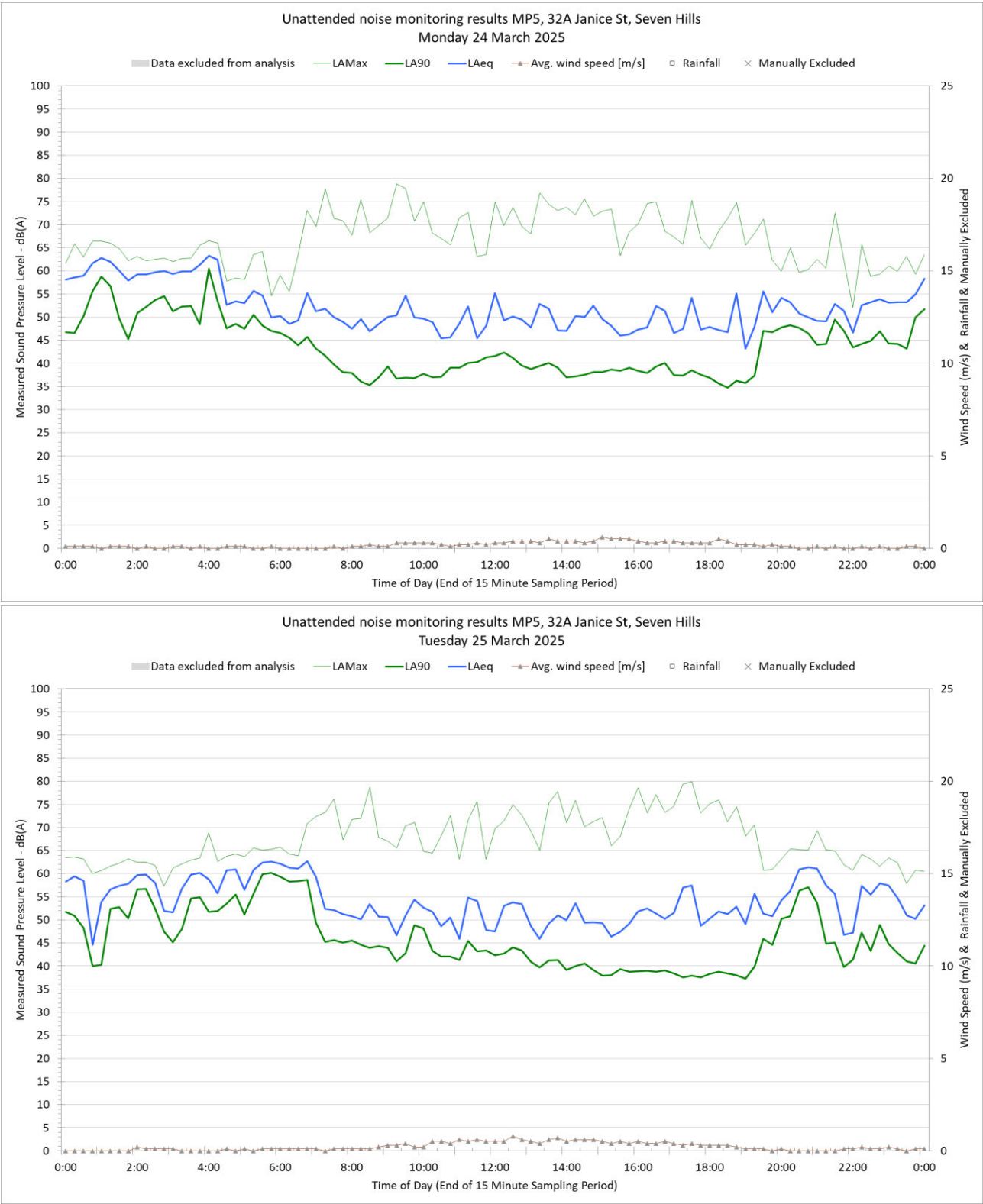
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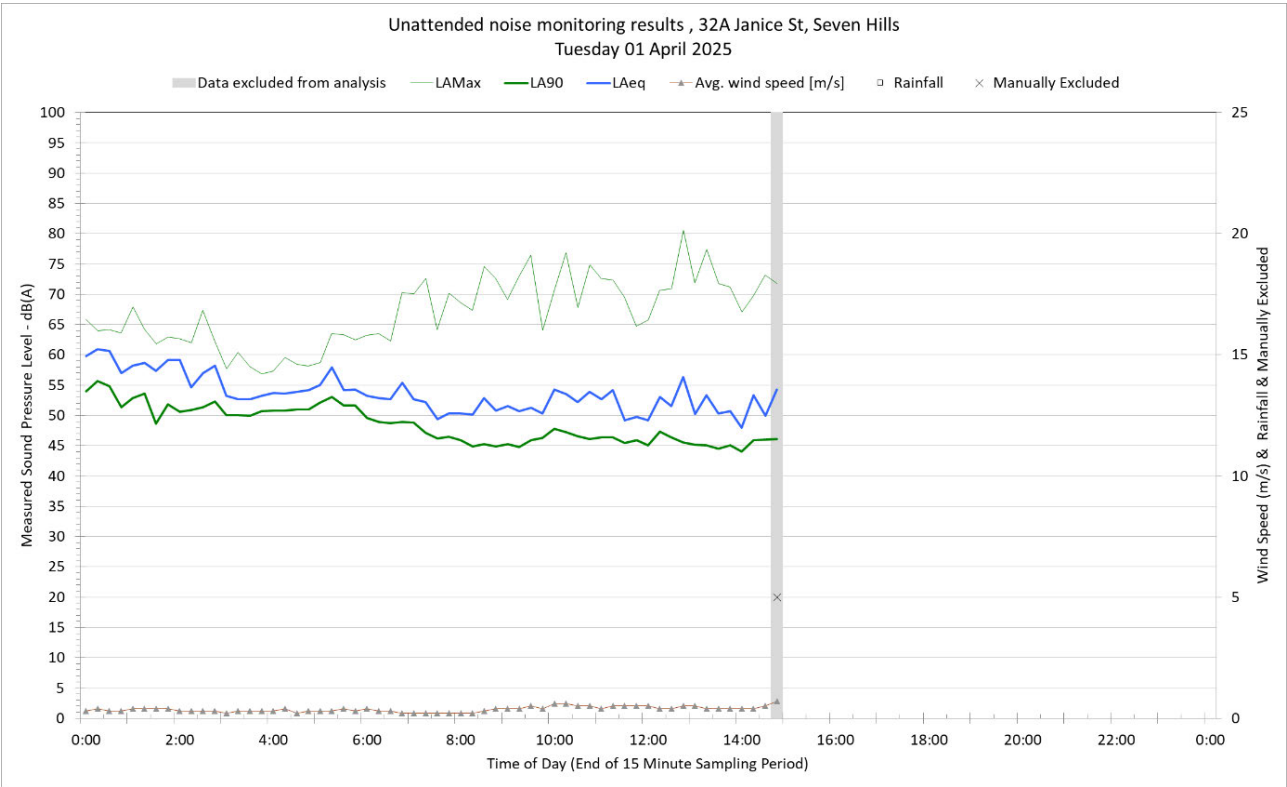
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Appendix B. Acoustic inventories

B.1 Construction

Quakers Hill WRRF

Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL ($L_{Aeq,15min}$ dB(A))	Stage SWL ($L_{Aeq,15min}$ dB(A))
WRRF_S1	Stage 1 – AWTP site establishment	Backhoe	1	25%	104	115
		Compactor	1	50%	113	
		Bulldozer	1	25%	108	
		Truck (dump)	1	10%	117	
		Excavator	1	25%	107	
		Front end loader	1	25%	113	
		Grader	1	25%	110	
		Sump Pump	1	100%	98	
		Roller (vibratory)	1	25%	108	
		Truck (water cart)	1	10%	107	
WRRF_S2	Stage 2 – Secondary treatment upgrade site establishment	Backhoe	1	25%	104	115
		Compactor	1	50%	113	
		Bulldozer	1	25%	108	
		Truck (dump)	1	10%	117	
		Excavator	1	25%	107	
		Front end loader	1	25%	113	

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Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL (L _{Aeq,15min} dB(A))	Stage SWL (L _{Aeq,15min} dB(A))
		Grader	1	25%	110	
		Sump Pump	1	100%	98	
		Roller (vibratory)	1	25%	108	
		Truck (water cart)	1	105	107	
WRRF_S3	Stage 3 – Civil works	Compactor	1	50%	113	116
		Concrete agitator truck	1	100%	109	
		Concrete pump truck	1	100%	108	
		Bulldozer	1	25%	108	
		Excavator	1	25%	107	
		Front end loader	1	25%	113	
		Grader	1	25%	110	
		Asphalt paver	1	25%	108	
		Roller (vibratory)	1	25%	108	
		Truck (>20 tonne)	1	10%	107	
		Truck (water cart)	1	10%	107	
WRRF_S4	Stage 4 – Structure construction	Concrete agitator truck	1	100%	109	114
		Concrete pump truck	1	100%	108	
		Crane (mobile)	1	50%	104	
		Bulldozer	1	25%	108	
		Front end loader	1	25%	113	

Noise and Vibration Impact Assessment

Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL ($L_{Aeq,15min}$ dB(A))	Stage SWL ($L_{Aeq,15min}$ dB(A))
		Grader	1	25%	110	
		Hand tools (electric)	1	50%	102	
		Roller (vibratory)	1	25%	108	
		Waste truck (>20 tonne)	1	10%	107	
		Truck (water cart)	1	10%	107	
WRRF_S5	Stage 5 – Mechanical and electrical installation	Hand tools (electric)	1	50%	102	105
		Vehicle (light commercial e.g. 4WD)	1	10%	106	
		Truck (>20 tonne)	1	10%	107	
		Crane (mobile)	1	50%	104	
		Waste truck (>20 tonne)	1	10%	107	
WRRF_S6	Stage 6 – Commissioning	Vehicle (light commercial e.g. 4WD)	1	10%	106	100
		Truck (>20 tonne)	1	10%	107	

Brine pipeline

Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL ($L_{Aeq,15min}$ dB(A))	Stage SWL ($L_{Aeq,15min}$ dB(A))
OT_S1	Stage 1 – Earthworks and civil works	Concrete agitator truck	1	100%	109	121
		Concrete pump truck	1	100%	108	
		Bulldozer	1	25%	108	
		Front end loader	1	25%	113	
		Excavator	1	25%	107	
		Excavator with breaker	1	25%	118+5 ¹	
		Rock breaker	1	25%	118+5 ¹	
		Rock screen	1	25%	110	
		Truck (>20 tonne)	1	10%	107	
		Sump Pump	1	100%	98	
		Trenching machine	1	25%	107	
		Waste truck	1	10%	107	
OT_S2	Stage 2 – Pipe installation	Pipe-bending machine	1	100%	-	114
		Compactor	1	50%	113	
		Crane (mobile)	1	50%	104	
		Truck (>20 tonne)	1	10%	107	
		Excavator	1	25%	107	
		Vehicle (light commercial e.g. 4WD)	1	10%	106	
		Crane (mobile)	1	50%	104	
		Hand tools (electric)	1	50%	102	

Noise and Vibration Impact Assessment

Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL (L _{Aeq,15min} dB(A))	Stage SWL (L _{Aeq,15min} dB(A))
		Semi-trailer	1	10%	107	
		Truck and dog	1	10%	117	
		Shoring equipment	1	100%	-	
		Welder	1	75%	105	
OT_S3	Stage 3 – Commissioning	Vehicle (light commercial e.g. 4WD)	1	10%	106	102
		Truck (>20 tonne)	1	10%	107	
		Sump Pump	1	100%	98	
OT_S4	Stage 4 – Landscaping and restoration	Compactor	1	50%	113	112
		Excavator	1	25%	107	
		Grader	1	25%	110	
		Asphalt paver	1	25%	108	
		Roller (vibratory)	1	25%	108	

Note 1: 5 dB penalty applied for 'particularly annoying' noise sources.

Support compounds

Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL (L _{Aeq,15min} dB(A))	Stage SWL (L _{Aeq,15min} dB(A))
Sup_S1/ PS_S1	Pipeline support activities: - Spoil and equipment storage site - Material laydown - Welding of pipes prior to installation - Preparation of pipes for installation.	Bulldozer	1	50%	108	113
		Front end loader	2	25%	113	
		Excavator	1	25%	107	
		Truck (>20 tonne)	1	10%	107	
		Crane (mobile)	2	50%	104	
		Vehicle (light commercial e.g. 4WD)	2	10%	106	
		Welder	1	75%	105	
		Hand tools (electric)	1	50%	102	

Tunnelling compound

Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL (L _{Aeq,15min} dB(A))	Stage SWL (L _{Aeq,15min} dB(A))
HDD_S1	Stage 1 – Site establishment	Front end loader	1	25%	113	122
		Excavator	1	25%	107	
		Excavator with hammer	1	25%	118+5 ¹	
		Rock breaker	1	25%	118+5 ¹	
		Rock screen	1	25%	110	
		Truck (>20 tonne)	1	10%	107	
		Vehicle (light commercial e.g. 4WD)	1	10%	106	
		Chainsaw	1	50%	114+5 ¹	
		Truck (dump)	1	10%	117	
		Grader	1	25%	110	
		Scraper	1	25%	116	
		Truck (water cart)	1	10%	107	
HDD_S2	Stage 2 – Earthworks and civil works	Truck (>20 tonne)	1	10%	107	121
		Excavator	1	25%	107	
		Waste truck	1	10%	107	
		Concrete agitator truck	1	100%	109	
		Concrete pump truck	1	100%	108	
		Bulldozer	1	25%	108	
		Excavator with hammer	1	25%	118+5 ¹	
		Rock breaker	1	25%	118+5 ¹	

Noise and Vibration Impact Assessment

Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL (L _{Aeq,15min} dB(A))	Stage SWL (L _{Aeq,15min} dB(A))
		Rock screen	1	25%	110	
		Sump Pump	1	100%	98	
HDD_S3	Stage 3 – Pipe path creation and pipe installation	Vehicle (light commercial e.g. 4WD)	1	10%	106	115
		Truck (>20 tonne)	1	10%	107	
		Compactor	1	50%	118	
		Crane (mobile)	1	50%	104	
		Excavator	1	25%	107	
		Generator (diesel)	1	100%	99	
		Pipe roller	1	100%	-	
		Hand tools (electric)	1	50%	102	
		Pumping and dewatering equipment	1	100%	98	
		Sump Pump	1	100%	98	
		HDD Rig	1	100%	106	
		Sump Pump	1	100%	98	
		Semi-trailer	1	10%	107	
		Sump Pump	1	10%	98	
		Truck and dog	1	10%	107	
		Welder	1	75%	105	
		Pumping support equipment	1	100%	-	

Noise and Vibration Impact Assessment

Stage	Stage Name	Equipment	Number	Utilisation	Equipment SWL (L _{Aeq,15min} dB(A))	Stage SWL (L _{Aeq,15min} dB(A))
HDD_S4	Stage 4 – Commissioning	Vehicle (light commercial e.g. 4WD)	1	10%	106	102
		Truck (>20 tonne)	1	10%	107	
		Sump Pump	1	100%	98	
HDD_S5	Stage 5 – Landscaping and restoration	Compactor	1	50%	118	112
		Excavator	1	25%	107	
		Grader	1	25%	110	
		Asphalt paver	1	25%	113	

Note 1: 5 dB penalty applied for 'particularly annoying' noise sources.

B.2 Operation

Retained equipment noise levels

Source	Quantity	1/3 Octave noise levels (dB)																											Overall noise levels dB(A)	Notes
		50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1k Hz	1.25k Hz	1.6k Hz	2k Hz	2.5k Hz	3.15k Hz	4k Hz	5k Hz	6.3k Hz	8k Hz	10k Hz	12.5k Hz	16k Hz	20k Hz		
GALLERY VENT FANS	1	67.5	75.9	77.0	75.8	69.0	70.4	75.6	67.2	70.3	68.7	65.1	62.0	61.0	56.8	57.9	52.2	48.6	47.0	45.7	44.1	44.6	42.6	37.2	35.2	32.9	29.3	23.3	71.1@1m	Site measured noise level.
FILTER BUILDING PUMPS	4 operating, 2 submerged, 6 total ²	73.9	65.8	69.8	67.7	71.0	68.5	69.0	75.2	74.4	75.0	71.3	70.4	75.4	75.2	72.6	70.7	71.0	68.3	60.8	58.0	53.8	51.2	51.7	50.8	44.5	38.8	29.9	82.0@1m	Site measured noise level.
SODIUM BISULPHATE TANK PUMP	1 operating, 3 total ²	-	55.4	-	-	56.4	-	-	58.4	-	-	58.4	-	-	61.4	-	-	58.4	-	-	54.4	-	-	48.4	-	-	-	-	65.0 SWL	Octave data derived from empirical calculations or similar equipment, sound power level based on site observation.
CONCENTRATE TRANSFER PUMPS	2 operating, 4 total ²	-	74.4	-	-	75.4	-	-	77.4	-	-	77.4	-	-	80.4	-	-	77.4	-	-	73.4	-	-	67.4	-	-	-	-	84.0 SWL	Octave data derived from empirical calculations or similar equipment, sound power level derived from <i>Quakers Hill WRP – Construction and Operational Noise Impact Assessment Report</i> (AAJV, 2017).
PRIMARY SLUDGE TREATMENT PUMPS	2	51.1	55.9	60.2	61.8	51.0	52.8	64.9	60.2	54.6	59.1	73.2	78.8	69.8	72.0	74.4	84.5	79.6	70.6	63.0	62.1	56.9	53.6	53.7	50.0	44.8	40.2	37.2	87.8@1m	Site measured noise level.
ODOUR CONTROL UNIT FANS - EAST	1	61.8	65.1	66.4	64.3	64.1	67.1	79.5	71.0	67.6	72.3	67.0	71.2	77.0	71.5	70.8	78.5	69.0	66.9	67.2	71.6	63.6	59.7	59.9	51.6	52.7	56.8	41.7	83.6@1m	Site measured noise level.
ODOUR CONTROL UNIT FANS - WEST	1	62.3	62.5	67.3	63.9	60.9	64.8	74.3	68.8	66.4	69.7	64.9	65.0	68.6	66.9	65.1	64.2	59.7	62.9	59.4	68.7	58.9	55.1	61.6	50.8	54.4	55.2	44.6	76.5@1m	Site measured noise level.
ODOUR CONTROL UNIT STACK ³	1	56.3	54.4	54.1	51.9	49.6	49.4	54.3	51.0	50.4	51.5	49.2	48.4	48.1	46.0	43.3	41.2	38.5	36.6	34.1	34.1	28.2	24.1	24.5	16.3	16.2	14.7	9.1	59.1@22m	Site measured noise level at distance.
ST MARYS TRANSFER PUMPS	1 operating, 4 total ²	74.4	65.4	73.3	69.8	63.5	66.2	68.3	68.1	71.7	65.9	61.7	60.4	62.4	66.8	65.1	61.6	62.7	61.4	59.4	57.4	55.0	63.1	56.2	49.9	52.0	49.7	36.5	74.5@1m	Site measured noise level.
BACKWASH PUMPS	1 operating, 2 total ²	62.8	58.2	60.1	61.7	65.1	64.3	63.5	66.0	64.5	68.3	66.4	64.2	62.5	62.4	63.3	62.1	56.9	56.6	57.2	50.7	48.6	47.8	44.6	42.0	38.6	33.5	26.1	72.4@1m	Site measured noise level.
EXISTING BLOWER ROOM – EAST LOUVRES	4 ¹	66.1	72.4	68.7	70.1	74.4	74.5	70.2	72.8	65.6	62.0	62.1	59.8	62.5	58.5	60.1	59.4	60.9	67.2	70.0	64.8	62.1	62.4	60.0	55.1	50.6	46.5	36.9	76.4@1m	Site measured noise level. Based on the loudest noise measured at a louvre on this façade.
EXISTING BLOWER ROOM – WEST LOUVRES	2 ¹	62.5	62.3	59.3	60.0	67.7	71.4	56.2	56.7	56.7	60.8	60.7	57.8	58.0	57.3	56.3	55.6	55.1	54.6	55.6	54.1	52.2	53.4	50.7	50.1	48.7	46.4	41.1	68.1@1m	Site measured noise level. Based on the loudest noise measured at a louvre on this façade.

Note 1: Noise from these sources modelled as building breakout noise rather than individual source noise.

Note 2: Noise from these sources were modelled based on the number of operating sources rather than the number of total sources.

Note 3: Noise from these sources modelled as a directional noise source.

Project associated equipment noise levels

Source	Stage 1 quantity	1/1 Octave noise levels (dB)								Overall noise levels dB(A)	Notes
		63	125	250	500	1k	2k	4k	8k		
UF FEED PUMPS	2	89.1	90.1	92.1	92.1	95.1	92.1	88.1	82.1	98.6	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
UF BACKWASH PUMP	1	92.3	93.3	95.3	95.3	98.3	95.3	91.3	85.3	101.9	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
UF CIP PUMPS	1	85.8	86.8	88.8	88.8	91.8	88.8	84.8	78.8	95.3	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
RO FEED TANK FAN	1	78.7	76.7	72.7	71.7	70.7	68.7	65.7	65.7	76.0	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
RO UNIT	4 ¹				99.2					96.0	Sound power level calculated based on standard industrial noise level of 85 dB(A) @ 1m - no specific data available.
RO LP PUMPS	3	89.1	90.1	92.1	92.1	95.1	92.1	88.1	82.1	98.6	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
RO HP PUMPS	4	93.1	94.1	96.1	96.1	99.1	96.1	92.1	86.1	102.7	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
RO CIP PUMPS	2	88.9	89.9	91.9	91.9	94.9	91.9	87.9	81.9	98.5	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.

Noise and Vibration Impact Assessment

Source	Stage 1 quantity	1/1 Octave noise levels (dB)								Overall noise levels dB(A)	Notes
		63	125	250	500	1k	2k	4k	8k		
ENHANCED TREATMENT	1 ^{1,2}				98.4					95.2	Sound power level calculated based on design team provided noise level of 80 dB(A) @ 1m - no specific data available.
ENHANCED TREATMENT FEED PUMPS	1	92.9	93.9	95.9	95.9	98.9	95.9	91.9	85.9	102.5	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level calculated based on standard industrial noise level of 85 dB(A) @ 1m.
ROP SERVICE WATER PUMPS	2	82.8	83.8	85.8	85.8	88.8	85.8	81.8	75.8	92.3	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
RO FLUSH PUMPS	1	85.8	86.8	88.8	88.8	91.8	88.8	84.8	78.8	95.3	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
BRINE TRANSFER PUMPS	2	92.3	93.3	95.3	95.3	98.3	95.3	91.3	85.3	101.9	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
SLUDGE TRANSFER PUMPS	1 ²	80.5	81.5	83.5	83.5	86.5	83.5	79.5	73.5	90.0	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
FINE SCREEN FEED PUMPS	4	-	-	-	-	-	-	-	-	-	Submerged equipment, considered not noisy.
MBR FEED PUMPS	3	-	-	-	-	-	-	-	-	-	Submerged equipment, considered not noisy.
MRAS TANK MIXER	1 ²	-	-	-	-	-	-	-	-	-	Submerged equipment, considered not noisy.

Noise and Vibration Impact Assessment

Source	Stage 1 quantity	1/1 Octave noise levels (dB)								Overall noise levels dB(A)	Notes
		63	125	250	500	1k	2k	4k	8k		
MBR WAS PUMPS	1	85.8	86.8	88.8	88.8	91.8	88.8	84.8	78.8	95.4	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level calculated based on standard industrial noise level of 85 dB(A) @ 1m.
MBR FILTRATE PUMPS	6	80.2	81.2	83.2	83.2	86.2	83.2	79.2	73.2	89.8	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
MBR BACKPULSE PUMP	1	78.2	79.2	81.2	81.2	84.2	81.2	77.2	71.2	87.8	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
MBR BLOWERS	4 ^{1,3}	104.4	108.4	107.4	99.4	94.4	89.4	84.4	84.4	102.5	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
RE PUMPS	2	85.8	86.8	88.8	88.8	91.8	88.8	84.8	78.8	95.4	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level calculated based on design team provided noise level of 80 dB(A) @ 1m
BIOREACTOR BLOWER PACKAGES	5 ¹	104.7	108.7	107.7	99.7	94.7	89.7	84.7	84.7	102.8	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
BIOREACTOR ANAEROBIC ZONE MIXERS	3	-	-	-	-	-	-	-	-	-	Submerged equipment, considered not noisy.
BIOREACTOR SWING ZONE MIXERS	6	-	-	-	-	-	-	-	-	-	Submerged equipment, considered not noisy.

Noise and Vibration Impact Assessment

Source	Stage 1 quantity	1/1 Octave noise levels (dB)								Overall noise levels dB(A)	Notes
		63	125	250	500	1k	2k	4k	8k		
BIOREACTOR WAS PUMPS	2	80.8	81.8	83.8	83.8	86.8	83.8	79.8	73.8	90.4	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level calculated based on design team provided noise level of 75 dB(A) @ 1m
FOUL AIR FAN ⁴	1	93.6	99.6	98.6	96.1	93.2	87.4	82.5	87.1	98.2	Octave and sound power level derived from empirical calculations (Bies & Hansen 11.6). Flow rate based on similar fan from a similar wastewater treatment plant, duct diameter and length based on Navisworks model. Noise source has upwards directivity.
ANAEROBIC ZONE MIXER	12	-	-	-	-	-	-	-	-	-	Submerged equipment, considered not noisy.
BTF RECIRCULATION PUMP	1	-	-	-	-	-	-	-	-	-	Submerged equipment, considered not noisy.
PRE RO CHEMICAL DOSING MIXING PUMP	1	76.7	77.7	79.7	79.7	82.7	79.7	75.7	69.7	86.2	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
RO PERMEATE CHEMICAL DOSING MIXING PUMP	1	81.4	82.4	84.4	84.4	87.4	84.4	80.4	74.4	91.0	Octave data derived from empirical calculations (Bies & Hansen 11.6), sound power level provided by design team.
FOUL WATER PUMP	1	-	-	-	-	-	-	-	-	-	Submerged equipment, considered not noisy.

Note 1: Noise from these sources modelled as building breakout noise rather than individual source noise.

Note 2: Unit numbers listed as TBC in equipment inventory.

Note 3: Unit numbers listed as TBC in equipment inventory had actual quantity was later confirmed by design team member.

Note 4: Noise from these sources modelled as a directional noise source.

Transmission loss

Building	Staging	Component	Details	1/1 Octave transmission loss (dB)								Rw	Source
				63	125	250	500	1k	2k	4k	8k		
Blower Building	Project	Walls	Concrete panel	-	-	-	-	-	-	-	-	-	Assumed to transmission
		Roof	Spandek Roof Sheeting 0.48 mm + 100mm Bradford AnticonHP	12	15	17	19	24	29	34	40	24.0	Insul calculation
		Louvres	Weather louvre	2	2	2	2	2	2	2	2	3.0	Jacobs database
			Acoustic louvre	4	7	9	13	14	12	12	8	14.0	Supplier data
		Doors	Solid core door	N/A								33.0	Supplier data
		Roller doors	Standard roller door	9	13	8	10	10	9	11	11	10.0	Jacobs database
RO Building	Project	Walls	Spandek Sheeting 0.48 mm	9	11	12	13	17	21	24	30	18.0	Insul calculation
		Roof	Spandek Roof Sheeting 0.48 mm + 100mm Bradford AnticonHP	12	15	17	19	24	29	34	40	24.0	Insul calculation
Enhanced Treatment Building	Project	Walls	Spandek Sheeting 0.48 mm	9	11	12	13	17	21	24	30	18.0	Insul calculation
		Roof	Spandek Roof Sheeting 0.48 mm + 100mm Bradford AnticonHP	12	15	17	19	24	29	34	40	24.0	Insul calculation
		Doors	Solid core door	N/A								33.0	Supplier data
		Roller doors	Standard roller door	9	13	8	10	10	9	11	11	10.0	Jacobs database

Appendix C. Tabulated noise results

C.1 Construction

Address	Noise Catchment Area	Usage	Noise Management Level, L _{Aeq,15min} dB(A)				Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Predicted noise level, L _{Aeq,15min} dB(A)	
			Standard hours	OOHW Day	OOHW Evening	OOHW Night	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level
238 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Commercial	70	-	-	-	38	81	40	81	36	59	31	57	22	48	17	43		
80 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Industrial	75	-	-	-	28	46	29	43	26	47	24	45	15	36	10	31		
80 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Industrial	75	-	-	-	28	45	28	43	26	46	24	44	15	35	10	30		
21 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	25	44	22	41	23	45	21	43	12	34	7	29		
24 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	25	43	22	40	23	44	21	42	12	33	7	28		
33 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	25	44	22	41	23	45	21	43	12	34	7	29		
34 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	25	44	22	40	23	45	21	43	12	34	7	29		
35 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	25	44	22	41	23	45	21	43	12	34	7	29		
37 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	25	44	22	41	23	45	21	43	12	34	7	29		
39 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	25	44	22	41	23	45	21	43	12	34	7	29		
41 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	14	44	14	40	21	44	19	42	10	33	5	28		
43 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	25	43	22	40	23	45	21	43	12	34	7	29		
45 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	24	43	22	40	23	44	21	42	12	33	7	28		
47 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	24	43	22	40	23	44	21	42	12	33	7	28		
49 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	24	43	21	40	22	44	20	42	11	33	6	28		
51 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	24	43	21	40	21	44	19	42	10	33	5	28		
53 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	24	43	21	40	22	44	20	42	11	33	6	28		
55 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	24	43	21	40	22	44	20	42	11	33	6	28		
57 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	14	43	14	40	21	44	19	42	10	33	5	28		
59 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	24	45	23	42	24	46	22	44	13	35	8	30		
61 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	26	45	23	42	24	46	22	44	13	35	8	30		
63 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	50	45	45	45	24	42	21	39	22	43	20	41	11	32	6	27		
2 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	26	44	26	42	24	45	22	43	13	34	8	29		
4 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	24	42	24	40	22	43	20	41	11	32	6	27		
6 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	17	35	13	35	17	36	12	38	3	29	-2	24		
8 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	17	39	14	37	15	40	13	38	4	29	-2	24		
10 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	16	39	16	38	17	39	15	40	6	31	1	26		
75 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	26	43	26	40	23	44	21	42	12	33	7	28		
77 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	17	43	17	41	15	44	13	43	4	34	-1	29		
78 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	26	43	26	41	23	44	21	42	12	33	7	28		
78 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	26	44	26	41	24	44	22	42	13	33	8	28		
79 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	25	42	25	40	22	44	20	42	11	33	6	28		
81 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	25	42	25	40	22	44	20	42	11	33	6	28		
85 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	50	45	45	45	26	44	26	42	24	45	22	43	13	34	8	29		
2 BARCLAY ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	35	52	35	51	34	54	32	52	23	43	18	38		
4 BARCLAY ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	49	25	44	26	50	23	48	14	39	9	34		
3 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	62	31	62	31	68	27	46	18	37	13	32		
4 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	29	65	32	65	34	57	32	55	23	46	18	41		
5 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	65	35	65	27	47	26	47	17	38	12	33		
6 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	62	33	62	34	55	29	53	20	44	15	39		
7 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	25	63	35	63	26	55	24	53	15	44	10	39		
7 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	25	54	36	54	28	51	24	49	15	40	10	35		
8 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	62	28	62	29	55	27	53	18	44	13	39		
9 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	25	63	38	63	26	56	24	54	15	45	10	40		
11 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	61	42	61	28	55	26	53	17	44	12	39		
13 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	60	42	60	25	54	23	53	14	44	9	39		
15 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	59	40	59	25	53	23	53	14	44	9	39		
17 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	32	57	39	57	33	54	31	52	22	43	17	38		
19 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	32	58	38	58	33	54	31	52	22	43	17	38		
21 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	23	57	39	57	24	54	22	52	13	43	8	38		
23 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	56	29	56	24	52	22	50	13	41	8	36		
25 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	56	28	56	28	52	26	50	17	41	12	36		
27 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	55	27	55	28	52	26	50	17	41	12	36		
27 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	40	25	40	25	41	22	39	13	30	8	25		
29 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	22	54	26	54	27	51	25	49	16	40	11	35		
31 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	30	54	25	54	26	51	24	49	15	40	10	35		
33 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	30	52	25	52	24	51	22	49	13	40	8	35		
35 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	29	50	24	45	24	51	22	49	13	40	8	35		
37 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	28	49	24	44	24	51	22	49	13	40	8	35		
39 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	49	26	40	24	50	21	48	12	39	7	34		
41 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	49	23	40	23	50	20	48	11	39	6	34		
153 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	46	24	36	26	47	23	45	14	36	9	31		
82 EASTERN RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	31	45	27	45	20	46	18	44	9	35	4	30		
22 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	25	56	26	48	31	57	28	55	19	46	14	41		
24 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	28	52	28	47	28	53	26	51	17	42	12	37		
24 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	22	55	22	51	26	55	24	53	15	44	10	39		
26 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	22	55	24	50	26	56	24	54	15	45	10	40		
26 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	51	23	50	28	52	26	50	17	41	12	36		
28 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	47	24	47	30	47	27	45	18	36	13	31		
30 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	22	49	22	49	26	49	23	47	14	38	9	33		
31 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	36	61	36	55	39	61	37	59	28	50	23	45		
32 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	22	42	22	38	26	43	24	41	15	32	10	27		
33 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	60	36	54	29	61	27	59	18	50				

Address	Noise Catchment Area	Usage	Noise Management Level, L _{Aeq,15min} dB(A)				Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Predicted noise level, L _{Aeq,15min} dB(A)	
			Standard hours	OOHW Day	OOHW Evening	OOHW Night	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level
8 HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	25	55	25	49	26	56	24	54	15	45	10	40		
9 ONKEN CT, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	32	57	32	52	39	58	47	56	28	47	23	42		
11 ONKEN CT, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	55	33	51	37	56	35	54	26	45	21	40		
201 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	29	56	28	52	37	43	22	41	13	32	8	27		
203 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	57	28	57	25	42	22	40	13	31	8	26		
205 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	57	26	57	25	41	23	39	14	30	9	25		
207 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	29	60	28	60	27	44	25	42	16	33	11	28		
209 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	61	27	61	27	54	24	52	15	43	10	38		
211A QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	40	61	28	61	29	55	24	53	15	44	10	39		
213-215 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	40	63	37	63	38	55	34	53	25	44	20	39		
213-215 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	41	65	44	65	41	56	34	54	25	45	20	40		
213-215 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	41	64	44	64	41	56	34	54	25	45	20	40		
217 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	41	66	45	66	42	57	35	55	26	46	21	41		
219 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	42	67	41	67	41	57	35	55	26	46	21	41		
221 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	42	68	41	68	39	57	35	55	26	46	21	41		
223A QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	29	69	38	69	33	58	31	56	22	47	17	42		
225 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	34	69	34	69	30	58	26	56	17	47	12	42		
227 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	38	70	34	70	38	58	35	56	26	47	21	42		
229A QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Childcare Centre	45	-	-	-	27	70	39	70	35	58	33	56	24	47	19	42		
229A QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Childcare Centre	45	-	-	-	35	70	38	70	35	58	33	56	24	47	19	42		
231 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	31	70	45	70	30	58	28	56	19	47	14	42		
233 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	62	30	62	27	57	25	55	16	46	11	41		
233 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	70	45	70	28	58	26	56	17	47	12	42		
235 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	67	33	67	28	58	26	56	17	47	12	42		
237 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	68	43	68	28	58	26	56	17	47	12	42		
239 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	70	43	70	28	58	26	56	17	47	12	42		
281 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	29	53	29	53	33	54	31	52	22	43	17	38		
283 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	28	54	31	53	28	55	26	53	17	44	12	39		
285 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	31	53	31	53	35	54	33	52	24	43	19	38		
287 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	32	53	33	52	34	55	32	53	23	44	18	39		
289 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	52	32	52	34	55	32	53	23	44	18	39		
291 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	54	33	52	34	55	32	53	23	44	18	39		
293 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	25	54	33	52	33	55	31	53	22	44	17	39		
295 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	36	52	36	52	34	54	32	52	23	43	18	38		
300 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	36	55	36	54	31	55	24	53	15	44	10	39		
4 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	35	53	36	53	36	55	33	53	24	44	19	39		
6 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	34	54	36	53	35	55	33	53	24	44	19	39		
8 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	35	55	36	53	36	56	34	54	25	45	20	40		
10 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	35	55	36	53	36	56	34	54	25	45	20	40		
12 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	35	55	36	54	36	57	34	55	25	46	20	41		
14 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	36	56	36	53	37	57	35	55	26	46	21	41		
16 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	36	57	36	52	37	58	26	56	17	47	12	42		
18 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	36	57	36	52	38	58	26	56	27	47	22	42		
20 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	30	58	35	52	33	59	31	57	22	48	17	43		
22 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	29	58	29	53	33	59	31	57	22	48	17	43		
24 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	31	61	31	61	40	62	38	60	31	51	24	46		
26 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	36	62	36	61	36	65	40	63	29	52	24	47		
28 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	36	62	36	62	37	61	36	61	28	52	23	47		
1 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	21	47	27	47	22	43	20	44	11	35	6	30		
3 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	19	44	25	44	20	44	18	42	9	33	4	28		
5 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	20	43	25	43	21	44	19	42	10	33	5	28		
7 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	46	31	46	24	45	22	43	13	34	8	29		
7 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	37	25	37	26	38	23	36	14	27	9	22		
7 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	46	30	46	25	44	23	42	14	33	9	28		
9 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	23	39	24	39	24	38	22	36	13	27	8	22		
11 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	31	44	29	43	25	46	23	44	14	35	9	30		
11 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	20	48	23	48	21	41	19	44	10	35	5	30		
13 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	51	36	51	30	49	28	47	19	38	14	33		
15 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	32	52	32	52	31	51	29	49	20	40	15	35		
17 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	27	48	30	48	24	47	22	45	13	36	8	31		
19 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	53	26	53	26	51	23	49	14	40	9	35		
21 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	53	32	53	31	51	29	49	20	40	15	35		
21 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	25	39	26	36	26	42	23	40	14	31	9	26		
23 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	33	49	29	49	28	47	26	45	17	36	12	31		
25 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	22	54	24	54	24	50	21	48	12	39	7	34		
27 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	34	54	30	54	31	52	29	50	20	41	15	36		
29 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	32	55	29	55	29	52	27	50	18	41	13	36		
31 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	34	54	29	54	25	52	23	50	14	41	9	36		
33 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	34	54	29	54	25	52	23	50	14	41	9	36		
35 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	37	25	37	25	37	22	35	13	26	8	21		
37 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	24	52	25	52	26	48	24	46	15	37	10	32		
39 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	29	52	28	52	26	4								

			Noise Management Level, L _{Aeq,15min} dB(A)					Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6	
Address	Noise Catchment Area	Usage	Standard hours	OOHW Day	OOHW Evening	OOHW Night	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	
15 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	30	52	27	50	30	53	28	51	19	42	14	37	
17 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	52	27	52	30	54	28	52	19	43	14	38	
19 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	28	52	28	52	28	53	25	51	16	42	11	37	
20 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	28	53	28	54	35	55	33	53	24	44	19	39	
21 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	30	51	30	49	28	53	26	51	17	42	12	37	
22 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	28	54	28	55	31	56	29	54	20	45	15	40	
23 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	26	53	28	53	29	54	25	52	16	43	11	38	
25 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	30	54	30	54	35	56	33	54	24	45	19	40	
27 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	50	45	45	45	30	54	30	55	35	56	33	54	24	45	19	40	
WESTERN SYDNEY PARKLANDS, RICHMOND RD, QUAKERS HILL NSW 2763	NCA 02	Passive Recreation	60	-	-	-	31	49	31	46	29	52	27	50	18	41	13	36	
1 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	40	26	40	22	42	20	40	11	31	6	26	
1 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	40	26	41	23	42	21	42	12	31	7	26	
2 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	40	26	41	23	43	21	41	12	32	7	27	
3 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	39	26	40	22	42	20	40	11	31	6	26	
4 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	28	42	28	43	25	45	23	43	14	34	9	29	
5 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	39	26	40	22	42	20	40	11	31	6	26	
6 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	28	42	28	43	25	45	23	43	14	34	9	29	
8 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	40	26	40	22	42	20	40	11	31	6	26	
8A HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	25	40	25	40	22	42	20	40	11	31	6	26	
2/53 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	27	39	26	40	23	42	21	40	12	31	7	26	
63 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	42	26	41	23	43	21	41	12	32	7	27	
65 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	42	26	41	23	43	21	41	12	32	7	27	
67A SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	42	26	41	23	43	21	41	12	32	7	27	
69 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	25	42	25	40	23	43	21	41	12	32	7	27	
71 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	42	26	40	23	43	21	41	12	32	7	27	
73 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	26	42	26	40	24	43	22	41	13	32	8	27	
73 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	49	44	44	44	25	42	25	40	24	43	22	41	13	32	8	27	
15 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	45	58	49	55	43	58	39	58	30	49	25	44	
37 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	43	58	43	54	38	58	36	58	27	49	22	44	
41 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	45	59	48	55	40	59	38	58	29	49	24	44	
45 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	46	58	47	55	39	58	37	58	28	49	23	44	
47 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	46	58	46	55	39	58	37	58	28	49	23	44	
49 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	44	59	44	54	39	59	37	58	28	49	23	44	
51 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	29	50	27	48	31	50	29	48	20	39	15	34	
51 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	41	49	39	49	34	50	32	50	23	41	18	36	
51 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	41	51	37	50	27	51	25	49	16	40	11	35	
58 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	29	42	29	37	28	41	26	41	17	32	12	27	
60 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	30	52	33	40	25	53	23	51	14	42	9	37	
62 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	31	51	31	36	26	52	24	50	15	41	10	36	
64 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	36	50	30	52	29	53	27	51	18	42	13	37	
66 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	35	53	25	40	26	54	24	52	15	43	10	38	
68 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	36	54	26	42	26	54	24	52	15	43	10	38	
70 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	35	53	30	46	29	55	27	53	18	44	13	39	
72 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	34	55	27	48	28	55	26	53	17	44	12	39	
74 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	35	56	25	42	26	55	24	53	15	44	10	39	
76 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	30	51	25	45	26	51	24	51	15	42	10	37	
78 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	42	54	42	53	38	56	36	56	27	47	22	42	
80 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	40	57	40	53	38	58	36	56	27	47	22	42	
20 ROSSKELLY LANE, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	39	47	37	47	30	48	28	46	19	37	14	32	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	31	43	34	40	25	43	23	41	14	32	9	27	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	30	42	30	37	27	41	25	39	16	30	11	25	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	26	38	26	32	24	39	22	37	13	28	8	23	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	49	44	44	44	30	39	28	37	24	39	23	38	14	29	9	24	
6 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Commercial	70	-	-	-	38	61	38	61	40	59	38	57	29	48	24	43	
MELROSE PARK (SPORTSGROUND), MELROSE AVE, QUAKERS HILL NSW 2763	NCA 03	Passive Recreation	60	-	-	-	40	62	45	62	40	59	36	57	27	48	22	43	
MELROSE PARK (PARKLAND), QUAKERS HILL NSW 2763	NCA 03	Passive Recreation	60	-	-	-	47	60	50	58	42	61	41	62	32	53	27	48	
22 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	36	54	42	54	38	55	36	53	27	44	22	39	
2 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	25	53	43	55	26	56	24	54	15	45	10	40	
4 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	37	53	43	55	38	56	36	54	27	45	22	40	
6 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	37	53	43	56	38	57	36	55	27	46	22	41	
7 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	27	52	27	55	28	56	26	54	17	45	12	40	
8 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	33	53	29	57	30	58	28	56	19	47	14	42	
20 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	31	47	32	47	33	47	31	45	22	36	17	31	
24 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	31	47	32	47	32	48	30	46					

Address	Noise Catchment Area	Usage	Noise Management Level, L _{Aeq,15min} dB(A)				Stage 1		Stage 2		Stage 3		Stage 4		Stage 5		Stage 6		Predicted noise level, L _{Aeq,15min} dB(A)		
			Standard hours	OOHW Day	OOHW Evening	OOHW Night	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	Minimum level	Maximum level	
14 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	29	56	46	58	31	59	38	58	29	49	24	44			
3 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	43	55	48	58	43	59	42	61	33	52	28	47			
7 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	41	54	46	57	42	58	40	58	31	49	26	44			
7 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	41	54	46	57	29	58	40	57	31	48	26	43			
9 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	27	54	47	57	41	58	27	59	18	50	13	45			
11 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	40	54	46	57	41	58	39	58	30	49	25	44			
5 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	25	51	36	53	36	54	33	52	24	43	19	38			
6 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	35	51	40	51	36	51	34	49	25	40	20	35			
7 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	35	51	24	51	35	52	28	50	19	41	14	36			
22 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	35	58	46	58	34	59	32	60	23	51	18	46			
49A FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	31	49	31	49	33	47	31	45	22	36	17	31			
53 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	19	49	18	49	32	47	30	45	21	36	16	31			
63 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	18	47	20	47	23	45	19	43	10	34	5	29			
23 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	38	52	34	55	35	56	33	57	24	48	19	43			
25 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	40	52	47	55	42	56	40	57	31	56	26	43			
27 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	41	52	48	55	42	56	26	57	17	48	12	43			
28 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	41	54	47	57	43	58	41	60	32	51	27	46			
29 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	41	53	48	56	42	57	40	58	31	49	26	44			
31 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	42	53	49	56	41	57	39	58	30	49	25	44			
33 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	42	54	49	56	41	57	38	60	29	51	24	46			
35 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	43	56	48	57	37	58	35	60	26	51	21	46			
37 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	44	55	43	57	29	58	38	58	29	49	24	44			
3 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	42	69	44	69	42	58	35	56	26	47	21	42			
5 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	44	68	42	68	43	59	35	57	26	48	21	43			
6 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	42	66	48	66	42	59	36	57	27	48	22	43			
7 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	26	66	29	66	36	57	34	55	25	46	20	41			
8 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	26	64	32	64	41	58	35	56	26	47	21	42			
9 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	28	61	31	61	39	57	34	55	25	46	20	41			
10 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	28	63	31	63	32	55	27	53	18	44	13	39			
11 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	33	60	29	60	29	56	24	54	15	45	10	40			
12 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	26	61	29	61	39	56	34	54	25	45	20	40			
13 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	31	53	30	53	31	44	26	42	17	33	12	28			
13 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	31	60	28	60	29	54	24	52	15	43	10	38			
14 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	37	61	37	61	41	58	26	56	17	47	12	42			
15A MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	30	59	28	59	28	51	23	49	14	40	9	35			
15A MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	24	45	27	45	28	45	23	43	14	34	9	29			
16 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	25	59	28	59	38	58	34	56	25	47	20	42			
17 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	29	58	27	58	27	44	23	42	14	33	9	28			
18 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	25	57	28	57	26	38	23	50	14	41	9	36			
19 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	25	57	27	57	25	41	23	39	14	30	9	25			
20 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	27	58	29	58	37	55	33	53	24	44	19	39			
21 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	24	55	26	55	27	39	24	37	15	28	10	23			
22 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	27	56	28	56	26	54	24	52	15	43	10	38			
24 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	24	54	26	54	24	38	22	36	13	27	8	22			
26 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	29	53	29	53	28	51	17	42	12	37	7	32			
28 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	27	51	28	51	35	48	32	48	39	18	34	34			
30 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	27	51	27	51	34	50	27	48	39	14	39	9	34		
32 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	29	49	29	48	30	50	28	48	19	39	14	34			
34 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	24	48	25	48	23	40	21	38	12	29	7	24			
36 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	22	49	26	49	29	50	27	48	18	39	13	34			
38 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	28	52	27	52	33	51	31	49	22	40	17	35			
38 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	27	52	27	52	33	51	31	49	22	40	17	35			
40 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	25	52	26	52	23	51	21	49	12	40	7	35			
40 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	26	51	26	51	24	50	20	48	11	39	6	34			
42 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	23	52	26	52	26	50	20	48	11	39	6	34			
44 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	24	51	25	51	23	41	21	46	12	37	7	32			
46 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	24	50	25	50	23	48	21	46	12	37	7	32			
48 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	23	50	23	50	32	49	30	47	21	38	16	33			
50 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	20	50	22	50	21	47	19	45	10	36	5	31			
52 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	20	50	21	50	22	45	19	45	10	36	5	31			
3 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	25	47	21	47	21	46	19	44	10	35	5	30			
5 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	22	44	22	46	22	47	20	47	11	38	6	33			
6 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	23	50	23	50	31	48	29	46	20	37	15	32			
7 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	25	49	25	49	31	48	29	46	20	37	15	32			
8 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	23	49	23	49	31	50	29	48	20	39	15	34			
9 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	31	49	33	49	31	48	29	46	20	37	15	32			
9 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	26	48	26	48	31	48	25	46	16	37	11	32			
10 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	28	49	21	49	22	48	19	46	10	37	5	32			
11 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	31	52	35	52	34	51	32	49	23	40	18	35			
11 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	19	49	21	49	31	48	29	46	20	37	15	32			
204 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	27	44	28	44	27	42	24	40	15	31	10	26			
206 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	47	42	42	42	26	56	28	56	28	41	24	39	15	30	10	25			

C.2 Operation

Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
238 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Commercial	68	-	-	47	50	37	40
80 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Industrial	73	-	-	40	43	24	27
80 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Industrial	73	-	-	39	43	24	26
2 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	21	24	8	10
4 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	28	31	16	19
6 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	22	24	8	10
8 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	22	25	9	12
10 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	25	27	10	13
12 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	26	29	11	14
14 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	25	27	10	13
16 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	28	31	14	17
18 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	30	33	20	22
20 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	31	34	20	23
21 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	38	41	24	27
22 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	38	41	23	26
24 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	38	41	23	26
33 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	38	41	24	26
34 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	38	41	23	26
35 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	38	41	24	26
36 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	40	23	26
37 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	41	23	26
38 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	35	37	21	24
39 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	41	23	26
40 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	34	37	20	23
41 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	40	23	26
42 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	29	31	19	22
43 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	40	23	26
44 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	28	31	19	22
45 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	40	23	26
46 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	28	30	19	22
47 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	40	23	26
48 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	27	30	14	17
49 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	40	23	26
50 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	27	30	16	18
51 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	37	40	23	26
52 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	27	30	16	19
53 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	36	39	23	25
54 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	31	34	14	17
55 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	36	39	23	25
56 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	25	28	13	15
57 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	36	39	22	25
59 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	38	41	23	26
61 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	38	41	24	27
63 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	36	39	22	25
65 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	25	27	12	15
67 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	26	28	14	17
69 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	28	30	15	18
71 WANDA CCT, COLEBEE NSW 2761	NCA 01	Residential	45	45	43	26	29	15	18
2 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	38	41	21	24
3 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	35	39	20	23
4 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	36	39	20	23
5 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	35	38	20	23
6 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	32	35	16	19

Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
7 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	33	36	20	23
8 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	31	34	17	20
9 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	36	39	19	22
10 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	33	37	14	17
12 AMANDA CL, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	36	39	19	22
35 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	32	35	14	17
37 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	33	36	18	21
39 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	30	33	17	19
41 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	36	39	18	21
43 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	36	40	19	22
45 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	35	38	19	22
47 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	36	39	19	22
49 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	35	38	19	22
51 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	33	36	16	19
53 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	31	34	16	18
55 LYALL AV, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	28	31	12	15
75 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	37	40	21	23
77 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	36	40	20	22
78 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	37	40	21	24
78 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	37	41	21	24
79 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	37	40	20	23
81 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	37	40	20	23
85 SYMONDS RD, DEAN PARK NSW 2761	NCA 01	Residential	45	45	43	38	41	21	24
1 BARA PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	33	36	23	27
2 BARA PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	33	36	21	24
3 BARA PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	34	22	25
4 BARA PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	22	25
5 BARA PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	34	21	24
6 BARA PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	22	25
7 BARA PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	33	35	21	24
7 BARA PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	33	20	23
2 BARCLAY ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	36	39
4 BARCLAY ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	25	28
3 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	28	31
4 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	35	38
5 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	39	42	33	36
6 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	35	38
7 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	27	30
7 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	27	30
8 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	34	37
9 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	32	36
11 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	46	33	36
12 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	25	29
13 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	33	36
14 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	25	28
15 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	33	36
16 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	25	28
17 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	33	36
18 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	25	28
19 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	33	36
20 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	24	28
21 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	33	36
22 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	24	27

Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
23 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	32	35
24 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	23	26
25 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	31	34
26 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	24	27
27 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	31	34
27 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	21	24
28 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	24	28
29 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	28	31
30 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	23	26
31 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	39	42	25	29
32 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	19	22
33 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	39	42	25	28
34 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	29	32	19	22
35 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	25	28
36 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	27	30	17	20
37 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	24	27
38 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	26	29	15	18
39 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	23	27
41 CHAPLIN CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	22	25
125 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	39	42	29	32
127 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	49	34	37
129 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	47	50	35	38
129 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	34	37
131 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	35	38
133 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	34	37
135 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	29	31
137 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	27	30
139 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	34	36
141 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	52	34	37
143 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	47	35	38
145 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	29	32
147 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	29	32
149 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	27	30
151 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	28	30
153 COWPER CIR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	35	38	23	26
82 EASTERN RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	26	29
3 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	32	35
4 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	30	33
5 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	39	42	32	35
6 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	44	30	32
7 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	44	29	31
8 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	44	31	34
9 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	32	34
10 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	31	33
11 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	29	32
12 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	32	35
13 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	32	34
13 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	31	34
14 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	32	34
15 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	46	32	35
16 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	34	36
17 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	33	36
17 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	45	32	34

Project Noise Trigger Levels $L_{Aeq,15min}$ dB(A)						Predicted noise levels $L_{Aeq,15min}$ dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
18 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	46	34	36
18 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	34	36
19 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	33	36
20 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	34	37
21 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	48	34	37
22 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	35	37
23 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	34	36
24 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	44	30	33
24 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	51	36	39
25 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	30	32
26 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	30	32
26 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	45	31	34
27 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	50	53	39	42
28 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	46	31	34
29 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	41	43
30 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	29	32
31 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	54	56	42	45
32 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	30	32
33 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	52	55	40	42
34 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	24	27
35 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	52	54	40	42
36 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	39	24	27
37 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	51	53	32	34
37 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	36	39
38 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	40	25	27
39 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	30	32
40 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	39	25	27
42 ELWOOD CR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	22	25
2 HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	47	50	34	37
3 HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	27	29
4 HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	35	37
5B HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	21	23
5B HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	32	35
6 HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	52	36	39
7A HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	32	35
8 HOLSTEIN CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	35	38
1 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	28	31
3 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	41	27	30
4 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	28	31
5 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	32	35
6 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	26	29
7 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	30	33
8 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	31	34
9 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	26	29
10 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	26	29
10 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	29	32
11 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	35	38	25	28
12 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	25	28
13 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	35	38	25	28
14 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	33	36	22	25
15 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	35	38	25	28
17 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	25	29
18 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	24	27

Project Noise Trigger Levels $L_{Aeq,15min}$ dB(A)						Predicted noise levels $L_{Aeq,15min}$ dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
18 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	21	24
19 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	23	26
20 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	24	27
21 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	33	36	22	25
22 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	23	26
23 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	33	36	21	25
24 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	29	32	20	23
25 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	18	22
25 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	22	25
26 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	30	33	20	23
27 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	23	26
27 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	28	31	17	20
27 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	29	32	18	21
28 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	22	25
30 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	21	24
30 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	22	25
32 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	29	32	19	22
34A MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	29	32	19	22
34A MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	30	33	19	22
36 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	30	33	20	23
36 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	22	26
38 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	30	33	20	23
40 MEDLOW DR, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	20	23
3 ONKEN CT, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	24	26
3A ONKEN CT, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	39	41	24	26
5 ONKEN CT, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	22	25
7B ONKEN CT, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	52	35	37
9 ONKEN CT, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	50	53	37	39
11 ONKEN CT, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	52	36	39
201 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	22	25
203 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	21	24
205 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	22	25
207 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	38	24	27
209 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	28	31
211A QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	30	33
213-215 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	34	37
213-215 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	35	38
213-215 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	35	38	24	27
213-215 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	34	37
213-215 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	45	29	33
217 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	35	38
219 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	35	38
219 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	27	30
221 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	35	38
221 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	23	26
223A QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	35	38
225 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	31	34
227 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	36	39
229A QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Childcare Centre	48	-	-	45	48	37	40
229A QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Childcare Centre	48	-	-	46	50	37	40
231 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	37	40
233 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	25	27
233 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	35	38

Addresses	Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
	Noise Catchment Area	Usage	Day	Evening	Night	Standard met. conditions	Unmitigated		Mitigation applied	
							Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions
235 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	48	29	32	
237 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	35	38	
239 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	47	50	35	38	
281 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	50	53	37	40	
283 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	51	54	38	41	
285 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	37	40	
287 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	47	50	37	40	
289 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	48	36	39	
291 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	37	39	
291 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	36	39	
293 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	37	39	
293 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	33	36	
295 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	36	39	
300 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	38	40	
302 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	30	33	
304 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	40	30	33	
306 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	31	34	
308 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	29	32	
310 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	35	38	22	24	
312 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	40	25	27	
314 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	24	26	
4 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	50	37	40	
6 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	38	41	
8 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	38	41	
10 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	38	41	
12 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	51	39	41	
14 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	52	39	42	
16 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	50	52	40	42	
18 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	50	53	40	42	
20 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	51	53	40	42	
22 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	51	54	40	42	
24 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	54	57	44	46	
26 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	54	57	43	45	
26 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	46	34	36	
28 RILEY PL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	53	56	42	44	
1 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	19	22	
3 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	32	35	18	21	
5 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	30	33	19	22	
7 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	26	29	
7 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	28	31	16	19	
7 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	23	26	
9 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	30	33	17	20	
11 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	26	29	
11 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	19	22	
13 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	30	33	
15 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	28	31	
17 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	36	39	26	29	
19 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	39	42	22	25	
21 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	46	31	35	
21 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	31	34	21	24	
23 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	28	31	
25 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	24	27	
27 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	34	37	

Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
29 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	33	36
31 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	32	35
33 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	31	34
35 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	33	36	23	26
37 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	28	31
39 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	29	32
41 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	32	35
43 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	32	35
45 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	34	37
47 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	30	33
49 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	38	41	30	33
51 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	26	29
53 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	30	33
55 ROWNTREE ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	34	37	24	27
5B VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	46	29	32
7A VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	35	37	21	24
9 VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	35	37	21	24
11 VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	33	36	20	22
15 VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	27	30
15 VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	47	50	34	37
23 VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	32	35
27 VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	47	50	33	36
35 VOYSEY CL, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	30	33
3 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	45	48	33	36
4 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	35	38
5 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	48	33	37
6 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	47	50	35	38
7 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	43	46	34	37
8 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	28	30
9 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	27	30
10 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	31	34
11 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	39	42	35	38
12 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	47	50	34	37
13 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	37	40	30	33
14 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	35	38
15 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	46	49	35	37
16 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	36	39
17 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	32	35
18A WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	41	44	29	32
19 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	42	45	32	35
20 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	52	38	41
21 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	44	47	34	37
22 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	50	53	37	40
23 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	40	43	35	38
25 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	48	51	37	40
27 WHITTIER ST, QUAKERS HILL NSW 2763	NCA 01	Residential	45	45	43	49	52	38	40
WESTERN SYDNEY PARKLANDS, RICHMOND RD, QUAKERS HILL NSW 2763	NCA 02	Passive Recreation	53	-	-	43	46	28	30
1 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	24	27	9	11
2 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	19	22
3 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	32	35	18	21
4 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	19	22
5 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	27	30	11	14
6 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	19	22

Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
7 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	27	30	10	12
8 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	34	37	19	21
9 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	33	36	14	17
10 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	29	32	17	20
11 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	34	37	15	18
12 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	27	30	12	15
14 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	28	31	13	15
15 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	32	35	18	21
16 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	28	31	12	15
17 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	31	34	15	18
18 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	34	37	16	19
19 BARNFIELD PL, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	29	32	13	16
1 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	21
1 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	22
2 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	43	46	20	22
3 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	21
3 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	26	29	10	13
4 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	37	40	20	23
5 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	21
6 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	37	40	20	23
7 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	21
8 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	19	21
8A HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	21
9 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	18	21
10 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	33	36	13	16
11 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	18	21
12 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	29	32	12	15
12A HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	18	21
26 HOYLE DR, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	17	20
40 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	19	21
42 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	19	22
44 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	22
46 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23
48 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	34	37	17	20
50 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23
52 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	22
54 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23
56 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23
58 LYALL AV, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23
20 MALLORY ST, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	33	36	16	18
22 MALLORY ST, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	32	35	17	20
24 MALLORY ST, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	17	20
26 MALLORY ST, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	32	35	14	17
28 MALLORY ST, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	27	30	11	14
34 MALLORY ST, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	34	37	18	21
2/53 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	21
2/53 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	29	32	12	14
2/53 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	34	37	16	19
63 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	19	22
65 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	37	40	20	23
67A SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	40	20	23
67A SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	35	38	16	19
69 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23

Addresses	Noise Catchment Area	Usage	Project Noise Trigger Levels L _{Aeq,15min} dB(A)			Predicted noise levels L _{Aeq,15min} dB(A)			
			Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
71 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23
73 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23
73 SYMONDS RD, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	36	39	20	23
4 WAYNE ST, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	30	33	13	16
6 WAYNE ST, DEAN PARK NSW 2761	NCA 02	Residential	44	44	43	22	25	7	10
3 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	49	52	30	33
5 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	50	53	32	34
9 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	53	31	34
11 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	50	53	31	33
13 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	52	55	33	35
15 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	54	56	35	37
1 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	30	33
2 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	50	31	34
3 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	28	31
4 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	45	48	27	29
5 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	49	52	30	33
6 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	46	48	27	29
6 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	29	31
7 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	28	31
8 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	49	52	31	33
9 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	49	52	30	32
10 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	30	32
11 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	40	43	24	26
11 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	47	50	27	30
12 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	52	54	32	34
13 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	50	53	30	33
15 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	30	32
17 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	50	53	31	34
19 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	29	32
21 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	49	52	31	33
23 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	54	32	34
25 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	53	32	34
27 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	54	32	35
29 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	54	32	35
31 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	53	32	35
33 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	53	32	35
33A EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	45	48	26	29
35 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	52	55	33	36
37 EBONY CR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	53	56	34	37
41 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	54	57	35	37
43 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	49	52	30	32
45 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	54	57	35	37
47 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	54	57	35	37
49 JASMINE AV, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	55	57	35	37
51 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	45	48	28	30
51 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	45	48	28	30
51 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	46	49	27	30
58 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	36	39	20	23
58A QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	47	50	28	30
60 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	47	50	28	31
62 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	45	49	27	30
62 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	49	52	30	32
64 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	47	50	28	30

Addresses	Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
	Noise Catchment Area	Usage	Day	Evening	Night	Standard met. conditions	Unmitigated		Mitigation applied	
							Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions
66 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	44	47	26	29	
68 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	30	32	
70 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	31	33	
72 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	29	32	
74 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	48	51	30	32	
76 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	45	48	29	31	
78 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	54	31	34	
80 QUAKERS HILL PWY, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	51	54	33	36	
20 ROSSKELLY LANE, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	43	46	26	28	
86 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	44	47	26	29	
88 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	43	46	23	26	
90 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	42	44	24	26	
92 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	45	48	26	29	
94 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	43	46	26	28	
96 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	44	47	26	29	
98 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	41	44	23	26	
100 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	39	42	22	25	
100A TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	41	44	24	27	
102 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	39	42	23	26	
104 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	44	47	26	28	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	36	39	19	22	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	38	41	22	25	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	37	40	21	24	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	40	43	23	25	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	36	38	21	23	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	33	36	17	20	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	35	37	19	21	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	37	40	21	24	
108 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 02	Residential	44	44	43	38	41	22	24	
6 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Commercial	68	-	-	45	47	32	35	
71 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Medical	53	-	-	25	28	12	14	
MELROSE PARK (SPORTSGROUND), MELROSE AVE, QUAKERS HILL NSW 2763	NCA 03	Passive Recreation	53	-	-	45	48	33	36	
MELROSE PARK (PARKLAND), QUAKERS HILL NSW 2763	NCA 03	Passive Recreation	53	-	-	56	58	37	39	
2 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	26	29	
2 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	26	28	
3 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	25	28	
4 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	25	28	
5 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	22	24	
6 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	28	31	
7 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	25	28	
8 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	29	32	
10 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	56	58	28	31	
11 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	24	27	
12 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	27	30	
12 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	20	23	
14 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	26	29	
16 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	24	27	
18 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	26	28	
20 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	49	52	32	35	
22 ALOE ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	50	53	33	36	
1 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	47	30	33	
2 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	50	53	30	33	
3A ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	27	30	

Addresses	Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
	Noise Catchment Area	Usage	Day	Evening	Night	Standard met. conditions	Unmitigated		Mitigation applied	
							Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions
3A ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	27	30	
4 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	52	54	34	37	
5 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	25	28	
6 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	52	55	34	37	
7 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	52	55	33	36	
8 ASTER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	54	57	36	38	
1 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	16	18	
3 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	17	20	
4 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	22	25	
5 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	22	25	
6 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	18	21	
7 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	23	26	
8 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	19	22	
9 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	22	25	
10 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	25	28	
10A BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	25	28	
11 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	25	28	
12 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	23	26	
14 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	25	28	
15 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	24	27	
16 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	20	23	
18 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	17	19	
20 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	28	31	
21 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	26	29	
22 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	22	25	
23 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	26	29	
24 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	28	31	
25 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	24	27	
26 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	22	25	
28 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	18	21	
30A BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	28	31	
30A BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	28	31	
32 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	42	22	25	
34 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	29	32	
38A BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	28	31	
42 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	31	34	
42 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	26	29	
42 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	29	32	
46 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	25	28	
48 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	29	32	
48 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	29	33	
50 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	41	23	26	
52 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	30	33	
54 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	26	29	
56 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	30	33	
58 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	31	34	
60 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	21	24	
62 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	31	34	
64 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	21	24	
66 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	31	34	
68 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	32	35	
70 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	22	25	
70 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	20	23	

Addresses	Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
	Noise Catchment Area	Usage	Day	Evening	Night	Standard met. conditions	Unmitigated		Mitigation applied	
							Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions
72 BRIER CR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	27	30	
2 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	28	31	
3 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	46	26	28	
4 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	47	29	32	
5 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	26	28	
6A CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	28	30	
6A CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	25	28	
7 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	55	57	36	38	
8 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	28	30	
9 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	54	56	35	37	
10 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	27	29	
12 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	53	55	35	37	
14 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	53	55	34	36	
14 CANNA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	55	57	35	38	
3 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	56	59	36	38	
4 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	28	30	
5 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	49	51	28	30	
6 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	50	53	30	32	
7 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	55	57	35	38	
7 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	55	57	36	38	
9 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	55	57	35	38	
11 CAPER PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	55	57	36	39	
1 CHIVE PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	28	31	
3 CHIVE PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	24	27	
3A CHIVE PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	36	17	20	
4 CHIVE PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	19	22	
5 CHIVE PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	21	24	
6 CHIVE PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	21	24	
7 CHIVE PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	19	22	
1 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	21	24	
3 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	23	26	
4 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	32	35	
5 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	48	51	32	35	
6 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	32	35	
7 CROCUS PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	48	51	33	36	
4 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	45	25	28	
6 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	24	27	
6 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	26	29	
8 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	27	30	
10 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	28	30	
12 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	28	30	
14 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	48	50	28	30	
16 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	49	52	28	31	
18 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	48	51	28	31	
20 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	50	53	32	34	
22 DAHLIA ST, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	54	57	35	37	
33 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	19	22	
35 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	19	22	
37 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	16	18	
39 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	23	26	
41 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	19	22	
43 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	18	21	
45 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	16	19	

Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
47 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	18	21
49 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	16	19
49A FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	27	30
51 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	22	25
53 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	27	30
63 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	34	18	21
65 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	20	23
65 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	34	17	20
67 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	28	30	14	16
69 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	18	21
73 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	17	20
75 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	25	28	12	15
77 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	26	28	14	16
79 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	23	26	11	14
79 FALMOUTH RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	25	28	13	16
3 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	25	28
4 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	28	31
5 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	25	27
6 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	29	31
7 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	49	27	30
8 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	28	30
9 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	27	30
10 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	25	28
11 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	45	25	27
12 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	25	28
13 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	28	30
14 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	26	28
15 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	28	31
17 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	29	31
18 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	47	25	28
19 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	45	23	26
19 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	29	32
20A JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	48	27	30
20A JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	25	28
21 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	50	30	32
22 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	24	27
23 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	51	53	32	34
24 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	49	27	29
25 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	51	54	32	35
26 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	49	52	31	34
27 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	53	55	33	36
27A JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	47	49	28	30
28 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	55	57	35	37
29 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	53	55	33	36
31 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	53	56	34	36
33 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	53	56	34	37
35 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	54	56	35	37
37 JASMINE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	54	56	34	37
3 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	36	39
5 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	36	39
6 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	37	40
7 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	35	38
8 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	47	37	40

Addresses	Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
	Noise Catchment Area	Usage	Day	Evening	Night	Standard met. conditions	Unmitigated		Mitigation applied	
							Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions
9 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	35	38	
10 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	32	35	
11 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	28	31	
12 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	35	38	
13 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	23	26	
13 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	28	31	
14 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	35	38	
15A MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	28	31	
15A MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	24	27	
16 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	31	34	
17 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	24	27	
18 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	20	23	
19 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	34	22	25	
20 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	29	32	
21 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	33	21	24	
22 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	27	30	
23 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	20	23	
24 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	17	20	
25 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	32	19	22	
26 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	26	29	
27 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	29	32	19	22	
28 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	26	29	
29 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	18	21	
30 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	25	28	
31 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	29	32	18	21	
32 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	25	28	
33 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	28	31	16	19	
34 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	28	31	16	18	
35 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	20	23	
36 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	24	27	
37 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	19	22	
38 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	24	27	
38 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	24	27	
39 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	23	26	
40 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	19	22	
40 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	24	27	
41 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	24	27	
42 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	19	22	
43 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	37	24	26	
44 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	17	20	
45 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	23	26	
46 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	22	25	
47 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	22	25	
48 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	22	25	
49 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	20	23	
50 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	19	22	
51 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	26	29	15	17	
51 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	19	22	
52 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	17	20	
53 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	19	22	
54 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	29	32	15	18	
55A MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	27	30	14	17	
55A MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	17	20	

Project Noise Trigger Levels L _{Aeq,15min} dB(A)						Predicted noise levels L _{Aeq,15min} dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
56 MELROSE AV, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	17	20
3 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	33	17	20
4 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	18	21
5 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	23	26
6 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	38	22	25
7 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	23	26
8 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	23	26
9 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	24	27
9 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	23	26
10 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	22	25
11 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	24	27
11 MEMA PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	23	26
1 MINT PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	28	31
2 MINT PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	27	30
3 MINT PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	28	31
3 MINT PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	37	18	21
4 MINT PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	24	27
5 MINT PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	21	24
6 MINT PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	19	22
1 PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	46	25	28
3 PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	25	28
4 PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	22	25
5 PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	22	25
6A PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	49	52	30	33
6A PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	29	32
7 PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	48	51	28	31
7 PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	48	51	29	32
8 PEONY PL, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	48	50	29	32
172 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	25	28	12	15
174 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	27	30	15	18
176 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	27	30	16	19
178 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	26	29	15	18
180 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	28	31	17	20
182 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	18	21
184 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	36	23	26
184 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	29	32	18	21
186 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	29	32	18	21
188 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	33	19	21
188 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	29	32	17	20
190 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	32	19	22
192 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	29	32	19	22
194 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	29	32	19	22
196 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	32	18	21
198 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	22	25
200 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	21	24
202 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	21	24
202 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	22	25
204 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	21	24
206 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	22	25
208 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	22	25
210 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	23	26
212 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	23	26
214 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	26	29

Project Noise Trigger Levels $L_{Aeq,15min}$ dB(A)						Predicted noise levels $L_{Aeq,15min}$ dB(A)			
Addresses	Noise Catchment Area	Usage	Day	Evening	Night	Unmitigated		Mitigation applied	
						Standard met. conditions	Noise enhancing met. conditions	Standard met. conditions	Noise enhancing met. conditions
216 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	28	31
218 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	37	24	27
220 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	29	32
222 QUAKERS RD, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	36	39
22 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	18	21
2A TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	35	18	21
4 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	22	25
6 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	41	21	24
10 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	21	24
12 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	32	35	18	21
14 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	17	20
16 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	20	23
18 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	21	24
20 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	19	22
22 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	19	22
22 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	20	23
24 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	20	23
26A TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	31	34	17	20
26A TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	18	21
28 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	18	21
28 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	30	33	15	18
30 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	22	25
32 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	37	40	21	24
34 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	22	25
36 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	36	39	18	21
36 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	33	36	17	20
40 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	23	26
42 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	43	46	25	28
44 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	24	27
46 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	28	31
48 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	22	25
54 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	21	24
56 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	26	29
58 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	34	37	18	21
58 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	27	30
60 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	28	31
62 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	45	48	25	28
64 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	21	24
64 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	46	49	26	29
68 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	38	41	21	24
70 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	21	24
70A TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	43	24	27
72 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	41	21	23
74 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	39	42	24	26
76 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	41	44	22	25
78 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	24	27
80 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	35	38	19	21
80 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	44	47	25	28
82 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	42	45	26	28
84 TALLAGANDRA DR, QUAKERS HILL NSW 2763	NCA 03	Residential	42	42	42	40	43	24	27

Appendix D. Noise contour maps

D.1 Quakers Hill WRRF construction contours

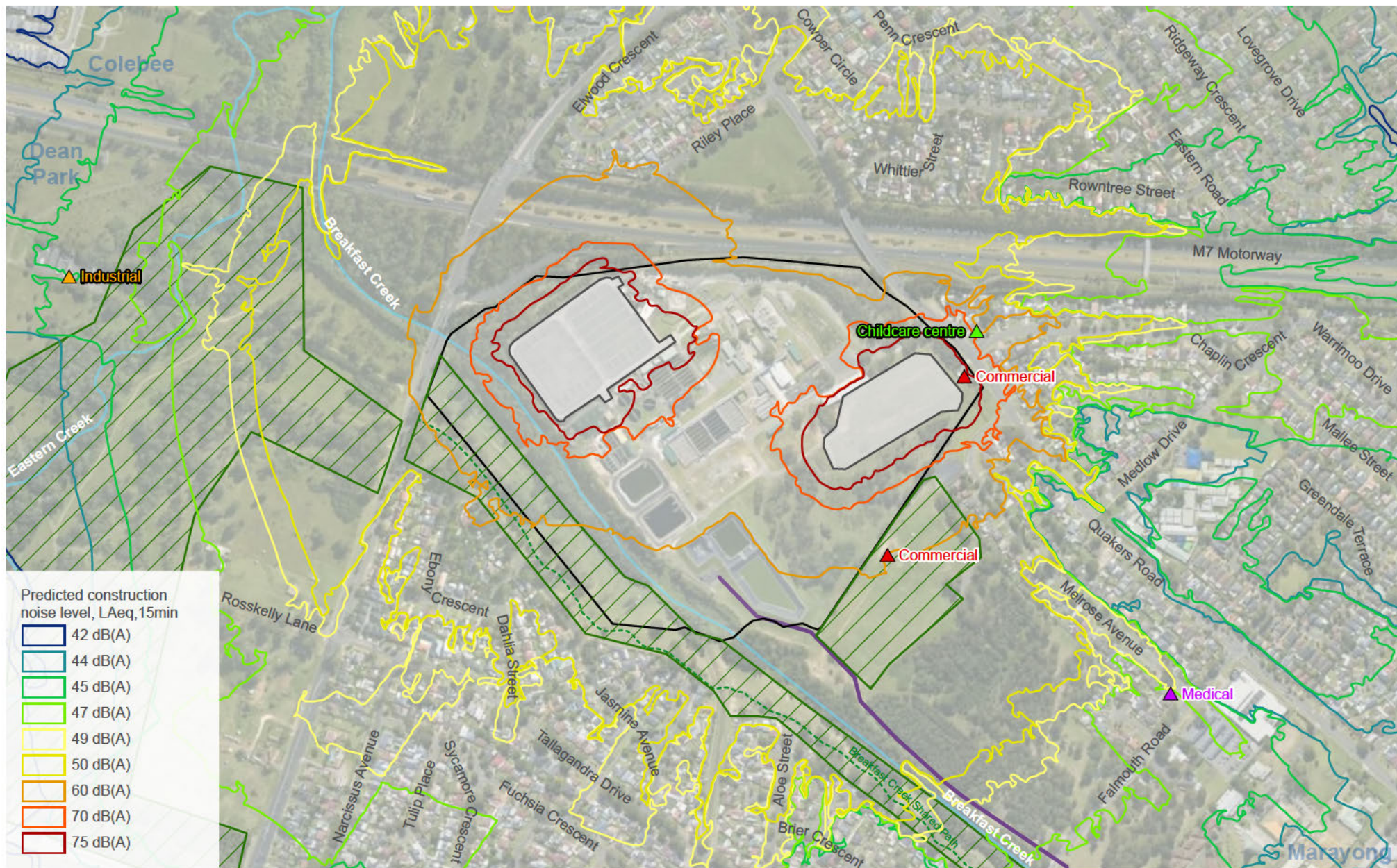


Figure D.1a Construction contour maps - WRRF_S1

0 200 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:7,500 @ A4
GDA2020 MGA Zone 56



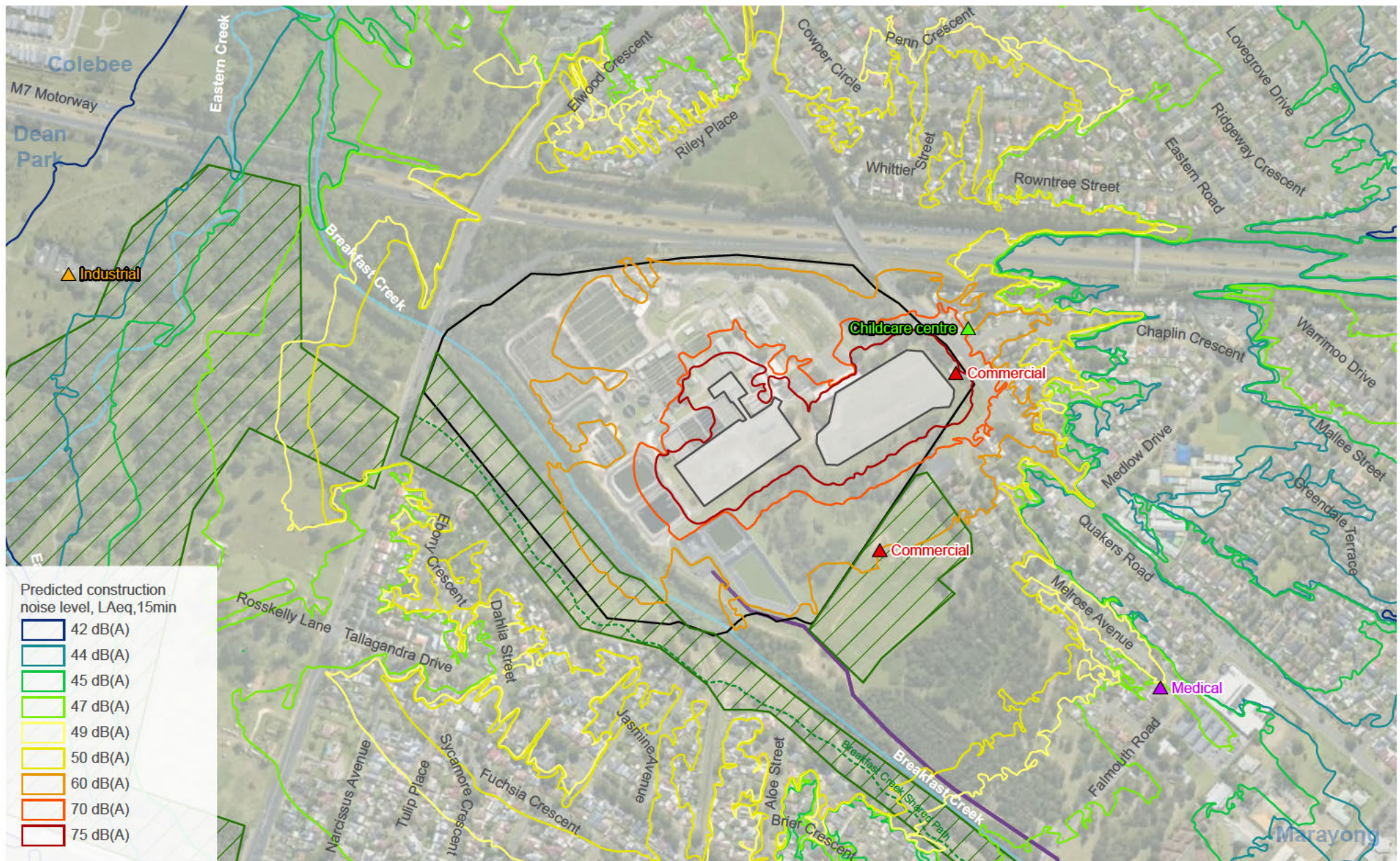


Figure D.1b Construction contour maps - WRRF_S2

0 200 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:7,500 @ A4
GDA2020 MGA Zone 56



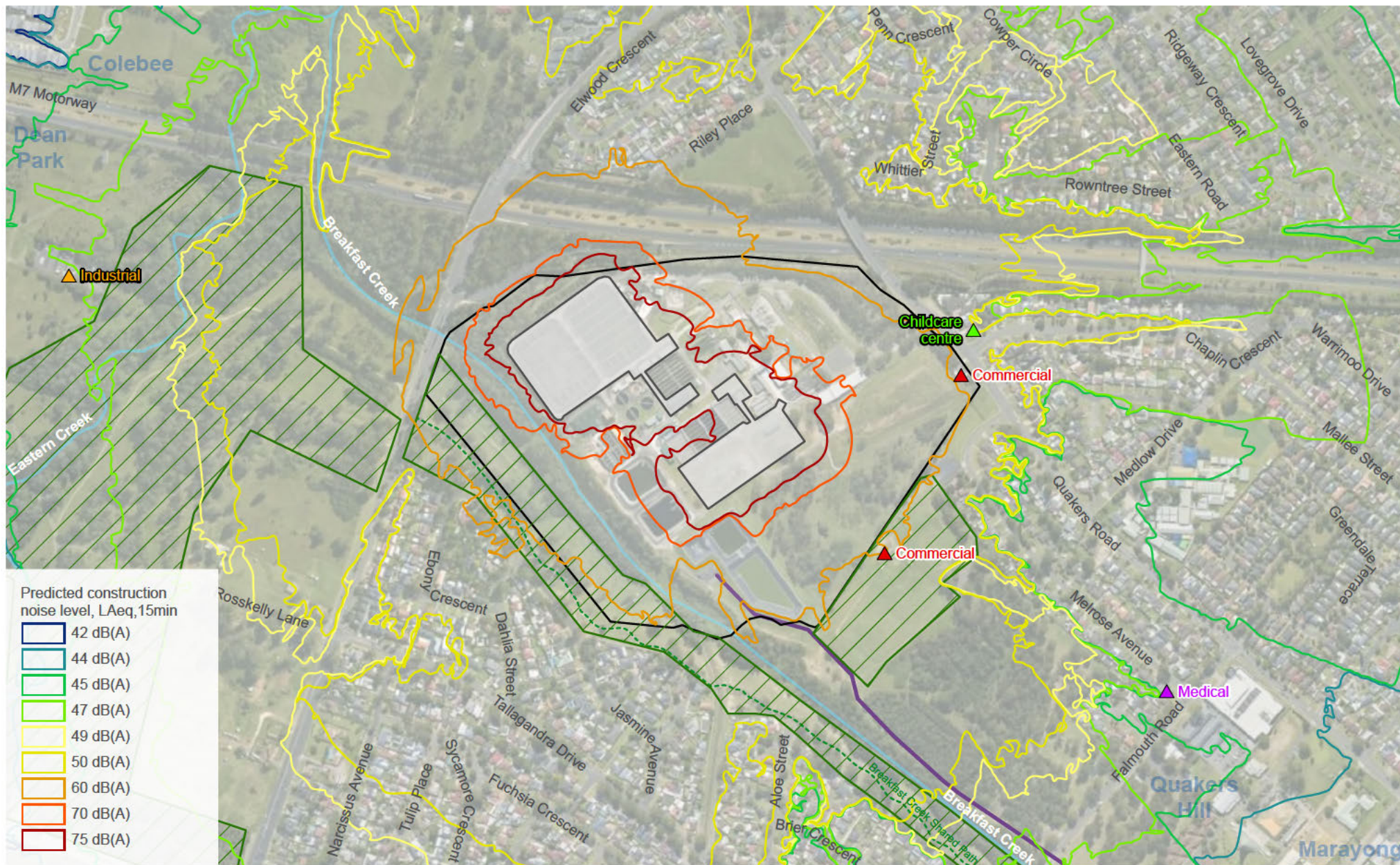


Figure D.1c Construction contour maps - WRRF_S3

0 200 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:7,500 @ A4
GDA2020 MGA Zone 56



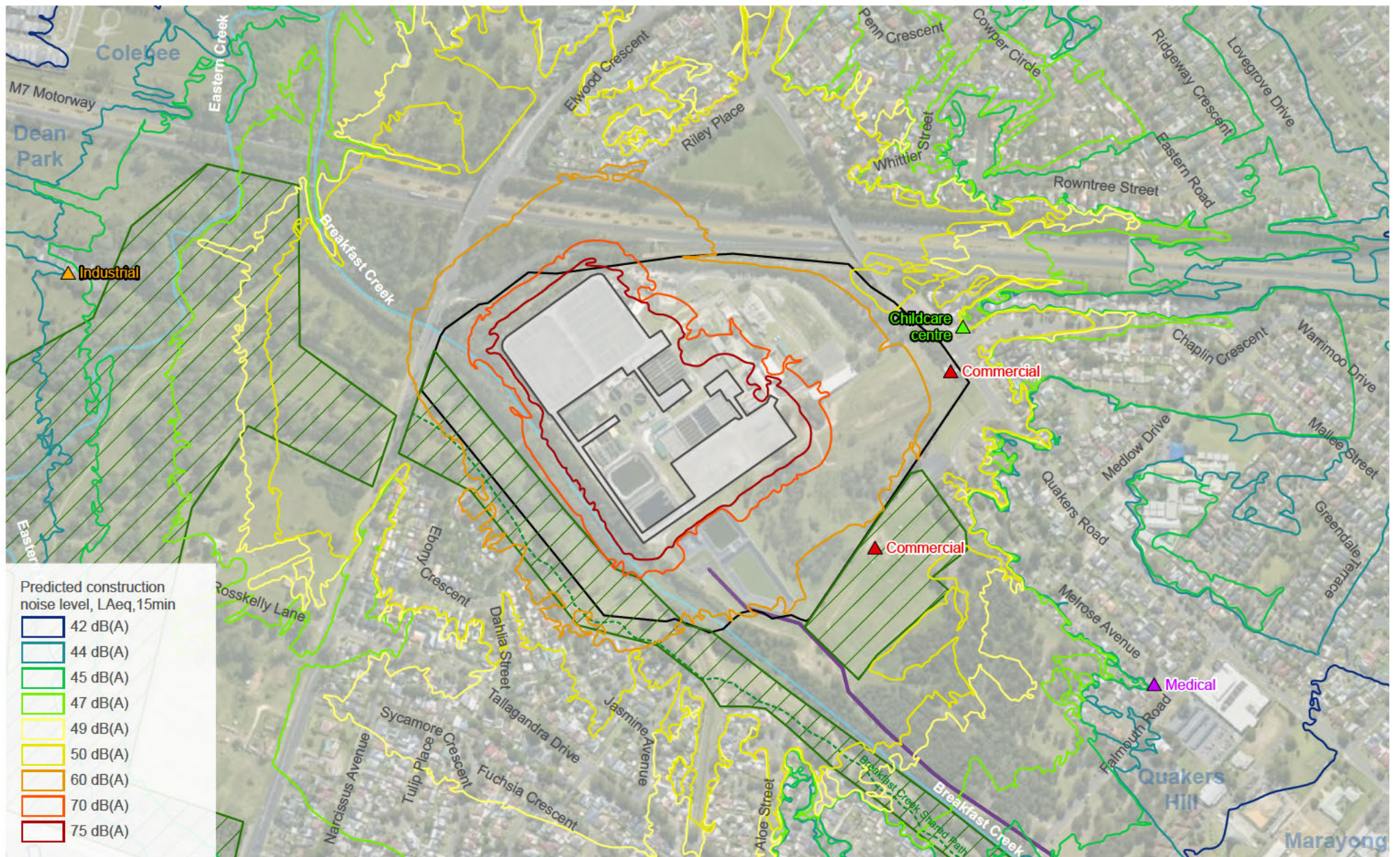


Figure D.1d Construction contour maps - WRRF_S4

0 200 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:7,500 @ A4
GDA2020 MGA Zone 56





Figure D.1e Construction contour maps - WRRF_S5

0 200 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:7,500 @ A4
GDA2020 MGA Zone 56





Figure D.1f Construction contour maps - WRRF_S6

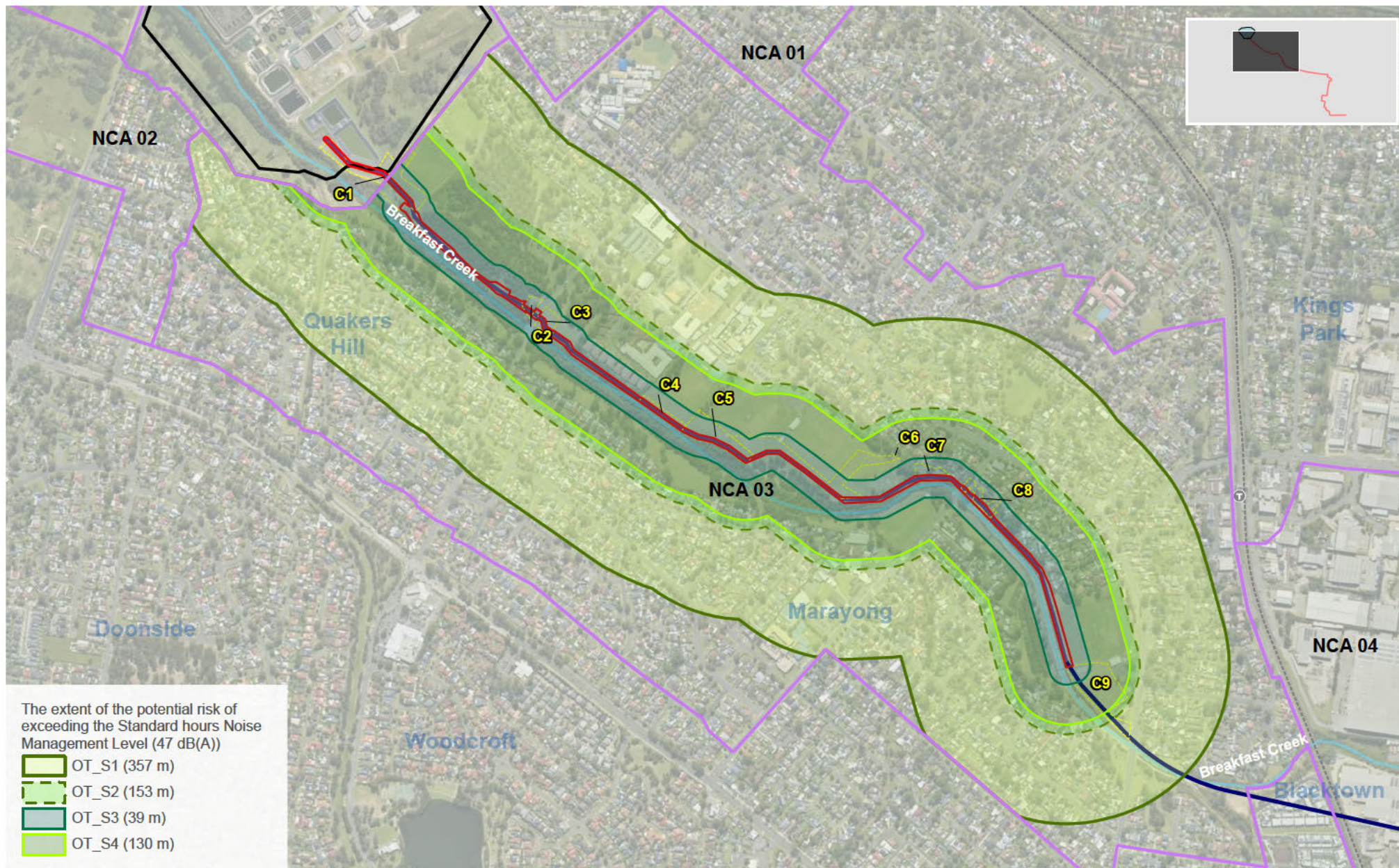
0 200 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:7,500 @ A4
GDA2020 MGA Zone 56



D.2 Pipeline construction contours



- Quakers Hill Water Resource Recovery Facility (WRRF)
- Proposed impact area
- Construction compounds

- Brine pipeline construction method
- Open trench
- HDD

- Proposed NCA

Figure D.2a Airborne noise pipeline

0 400 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:12,000 @ A4
GDA2020 MGA Zone 56







The extent of the potential risk of exceeding the Standard hours Noise Management Level (48 dB(A))

- OT_S4 (116 m)
- OT_S1 (318 m)
- OT_S2 (136 m)
- OT_S3 (35 m)

- Proposed impact area
- Construction compounds

- Brine pipeline construction method
- Open trench

- Proposed NCA

Figure D.2c Airborne noise pipeline

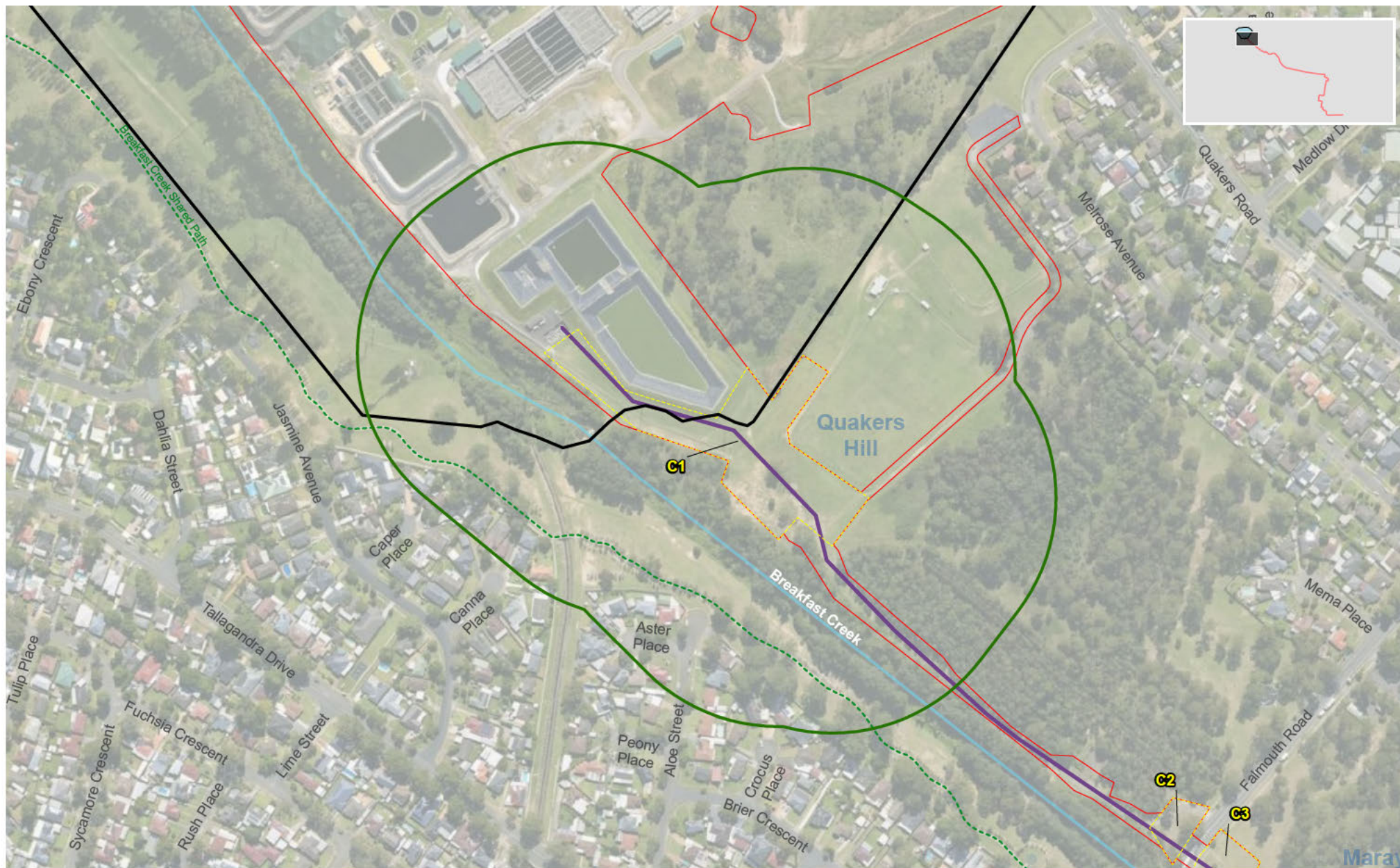
0 230 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:7,000 @ A4
GDA2020 MGA Zone 56



D.3 Pipeline construction compound contours



- Quakers Hill Water Resource Recovery Facility (WRRF)
- Brine pipeline impact area
- Construction compounds

- Brine pipeline construction method
- Open trench

- The extent of the potential risk of exceeding the Standard hours Noise Management Level (47 dB(A))
- LD_S1 (142 m)

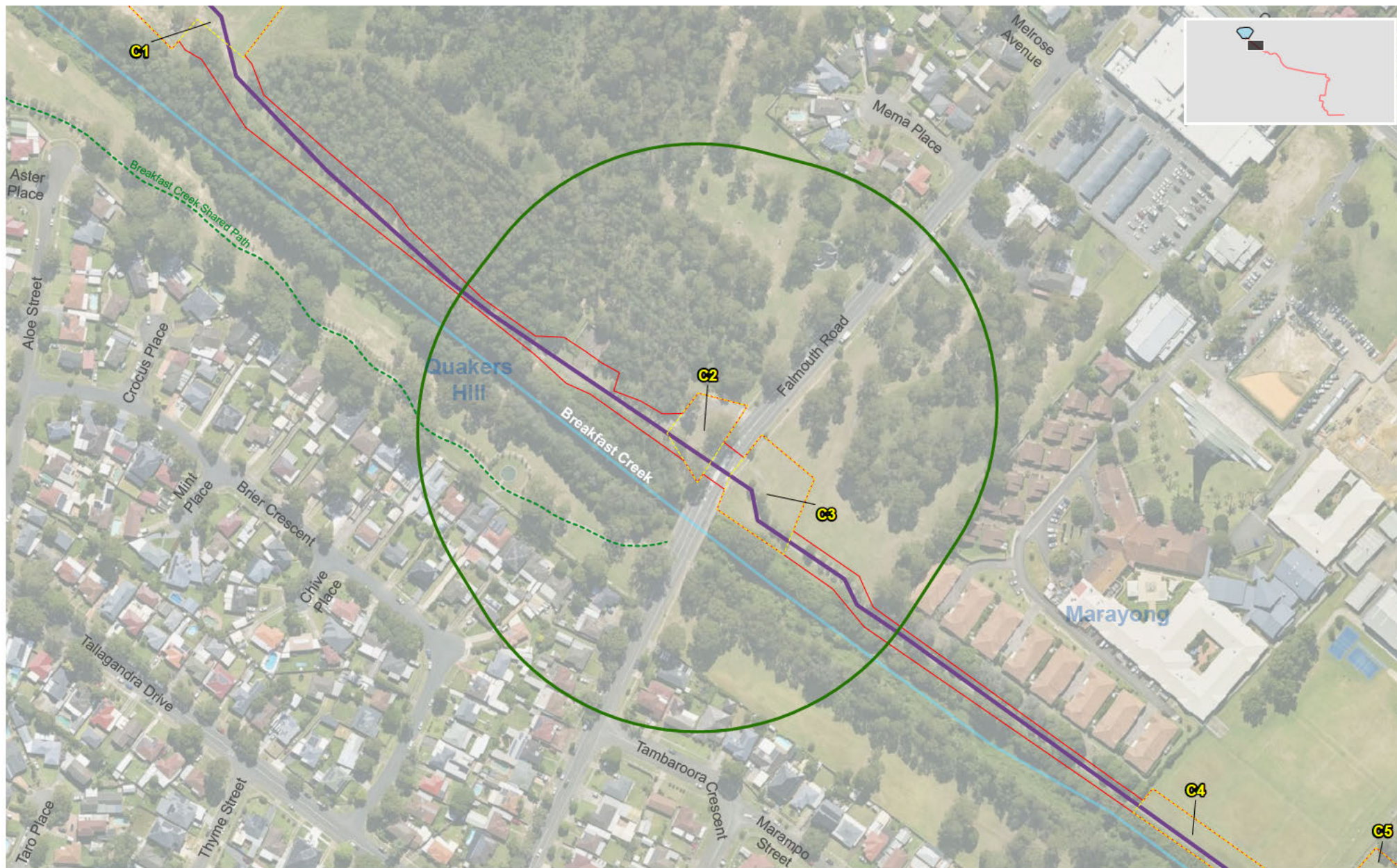
Figure D.3a Groundborne noise compounds (C1)

0 150 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:4,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
 Construction compounds

Brine pipeline construction method
 Open trench

The extent of the potential risk of
 exceeding the Standard hours Noise
 Management Level (47 dB(A))
 LD_S1 (142 m)

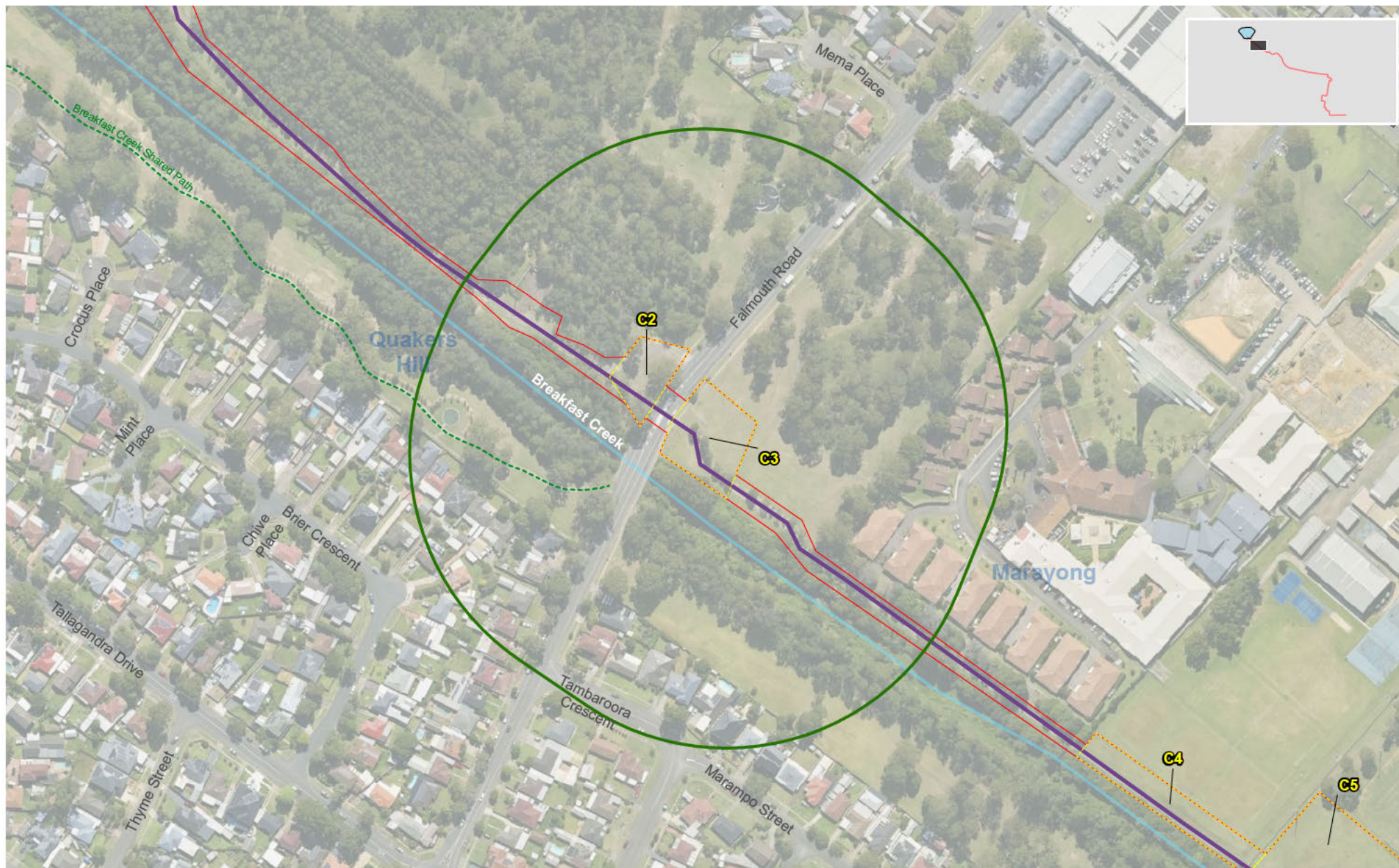
Figure D.3b Groundborne noise compounds (C2)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
 Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
 GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench

The extent of the potential risk of exceeding the Standard hours Noise Management Level (47 dB(A))
LD_S1 (142 m)

Figure D.3c Groundborne noise compounds (C3)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (47 dB(A))
LD_S1 (142 m)

Figure D.3d Groundborne noise compounds (C4)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (47 dB(A))
LD_S1 (142 m)

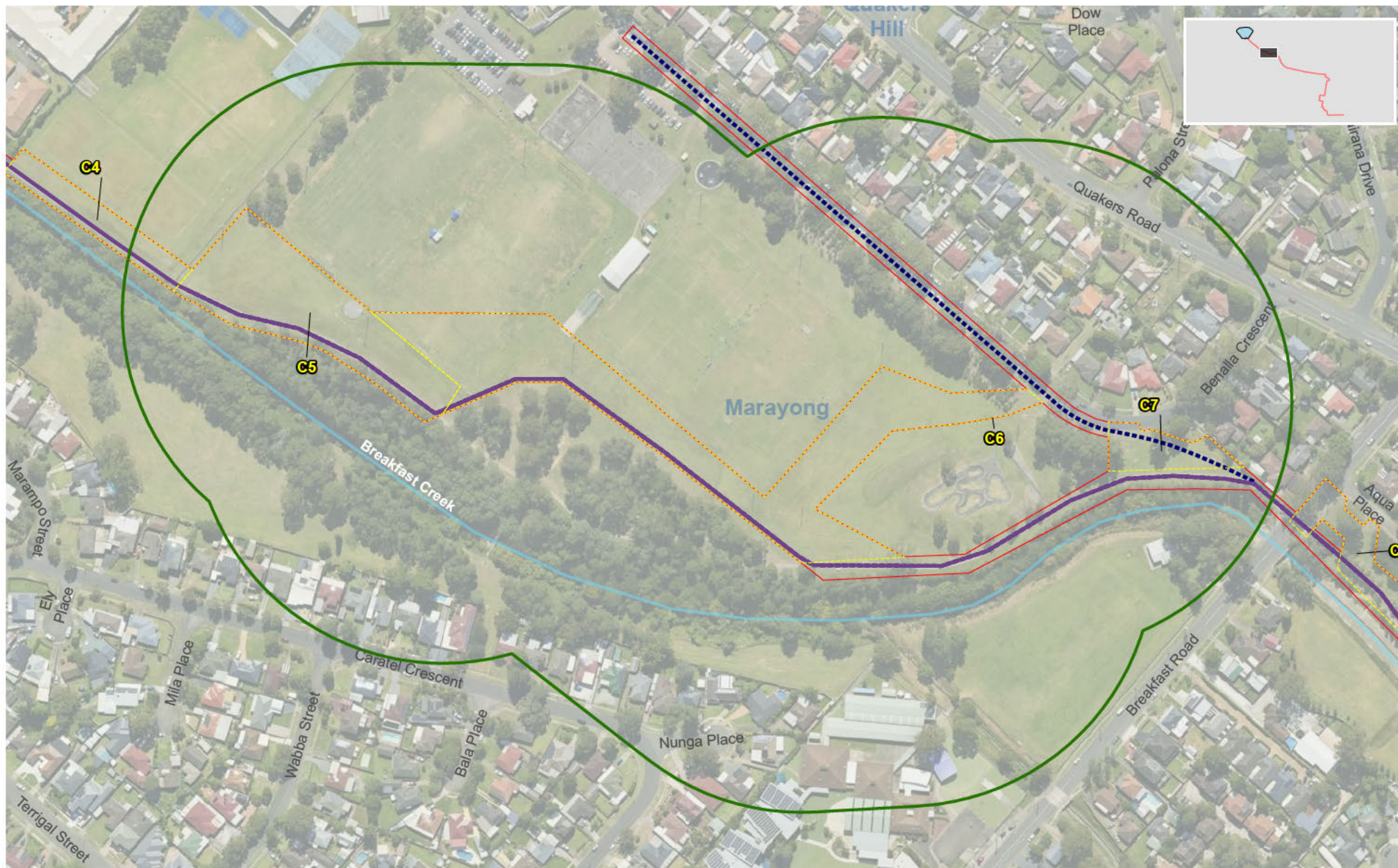
Figure D.3e Groundborne noise compounds (C5)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (47 dB(A))
LD_S1 (142 m)

Figure D.3f Groundborne noise compounds (C6)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (47 dB(A))
LD_S1 (142 m)

Figure D.3g Groundborne noise compounds (C7)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
 Construction compounds

Brine pipeline construction method
 Open trench
 HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (47 dB(A))
 LD_S1 (142 m)

Figure D.3h Groundborne noise compounds (C8)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
 Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
 GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD
HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (47 dB(A))
HDD_S1 (408 m)
HDD_S2 (347 m)

HDD_S3 (170 m)
HDD_S4 (39 m)
HDD_S5 (123 m)

Figure D.3i Groundborne noise compounds (C9)

0 280 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:7,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD
HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (48 dB(A))
HDD_S1 (364 m)
HDD_S2 (309 m)

HDD_S3 (152 m)
HDD_S4 (34 m)
HDD_S5 (110 m)

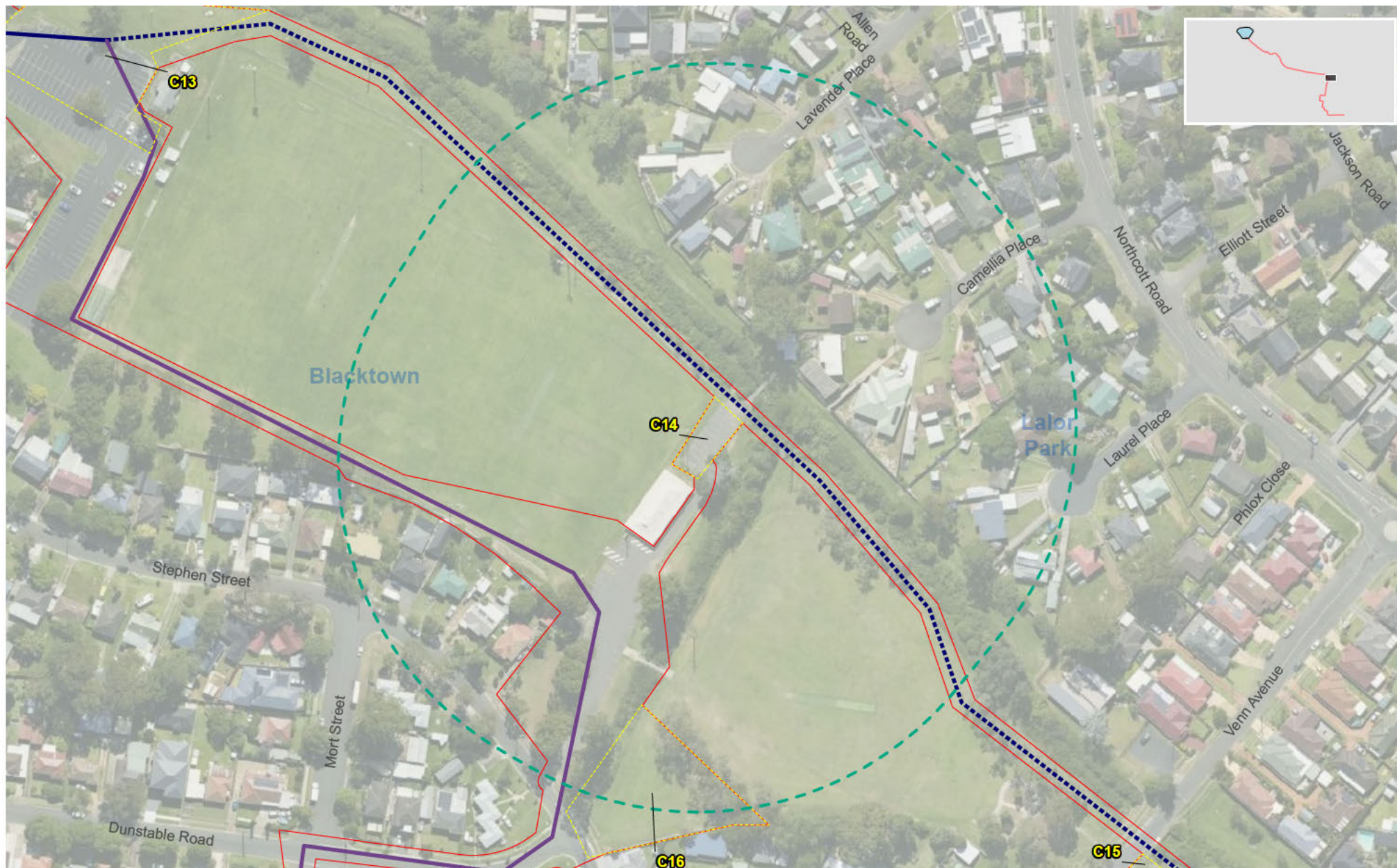
Figure D.3m Groundborne noise compounds (C13)

0 240 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:5,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
 Construction compounds

Brine pipeline construction method
 Open trench
 HDD
 HDD pipe string

The extent of the potential risk of
 exceeding the Standard hours Noise
 Management Level (48 dB(A))
 PS_S1 (127 m)

Figure D.3n Groundborne noise compounds (C14)

0 80 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
 Basemap: MetroMap 2024

Scale: 1:2,000 @ A4
 GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (48 dB(A))
PS_S1 (127 m)

Figure D.3o Groundborne noise compounds (C15)

0 80 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD pipe string

The extent of the potential risk of exceeding the Standard hours Noise Management Level (48 dB(A))
LD_S1 (127 m)

Figure D.3p Groundborne noise compounds (C16)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench

The extent of the potential risk of exceeding the Standard hours Noise Management Level (48 dB(A))
LD_S1 (127 m)

Figure D.3q Groundborne noise compounds (C17)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench

The extent of the potential risk of exceeding the Standard hours Noise Management Level (48 dB(A))
LD_S1 (127 m)

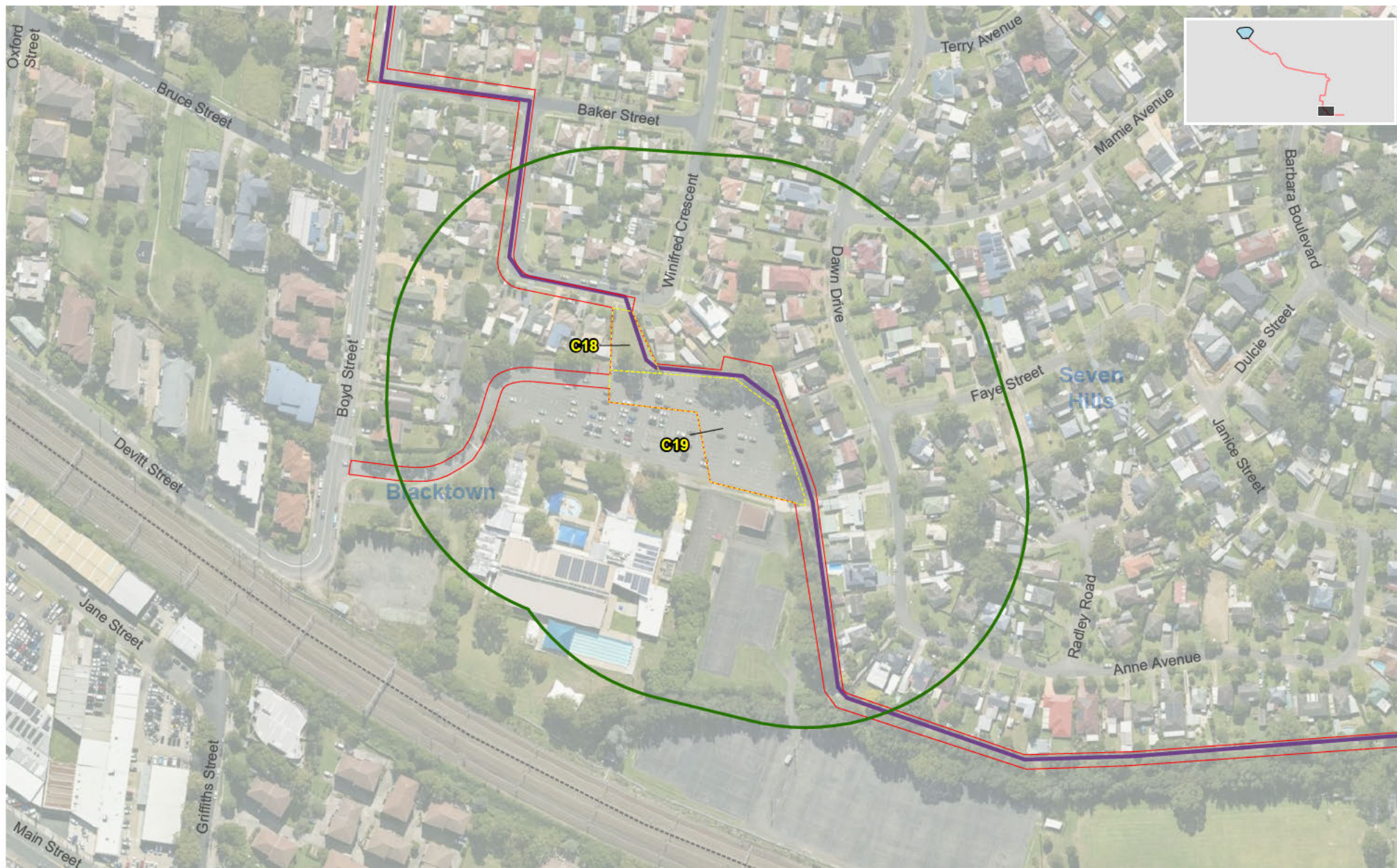
Figure D.3r Groundborne noise compounds (C18)

0 80 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench

The extent of the potential risk of exceeding the Standard hours Noise Management Level (48 dB(A))
LD_S1 (127 m)

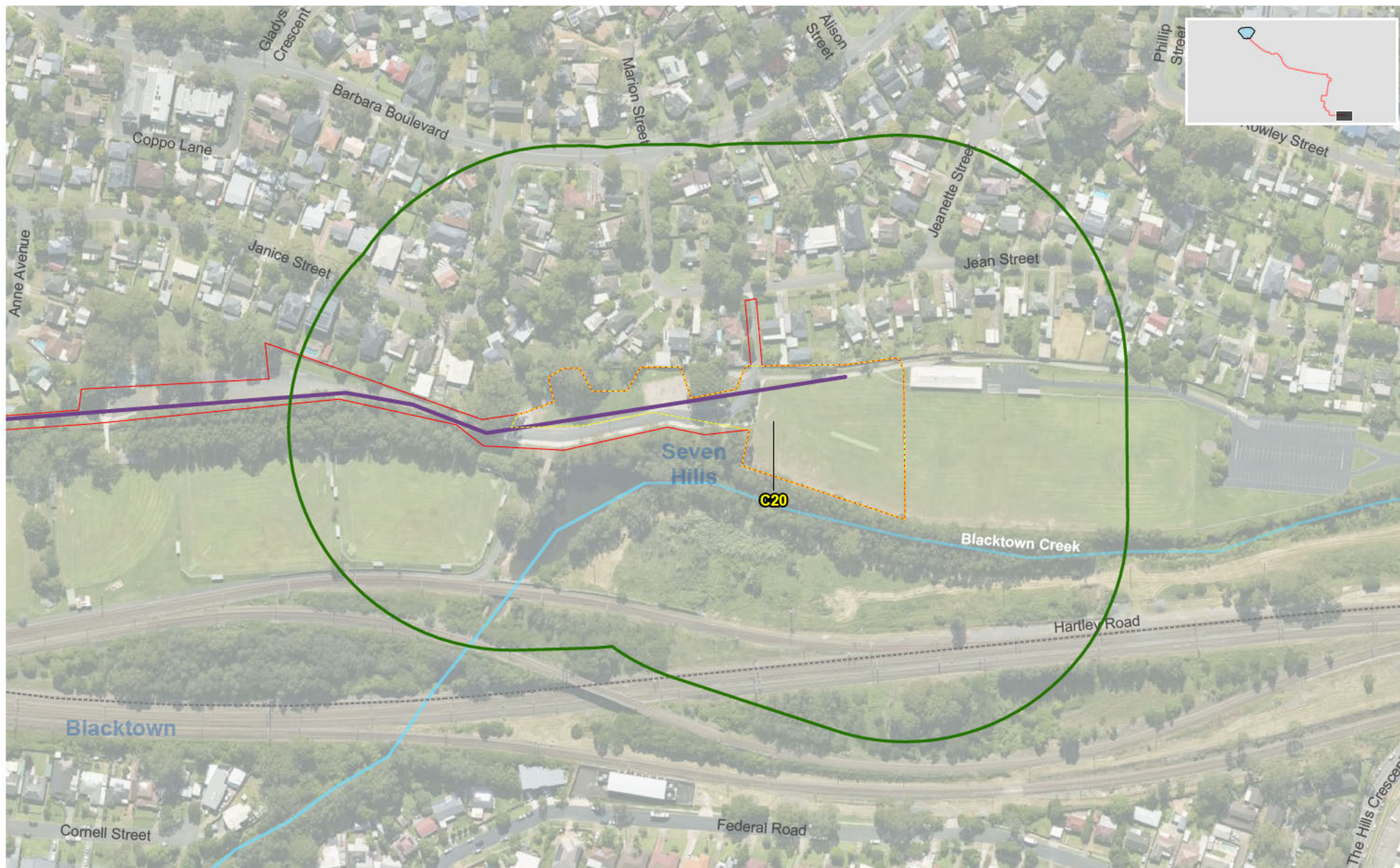
Figure D.3s Groundborne noise compounds (C19)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
 Construction compounds

Brine pipeline construction method
 Open trench

The extent of the potential risk of
 exceeding the Standard hours Noise
 Management Level (48 dB(A))
 LD_S1 (127 m)

Figure D.3t Groundborne noise compounds (C20)

0 120 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
 Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
 GDA2020 MGA Zone 56



D.4 Operational noise contours

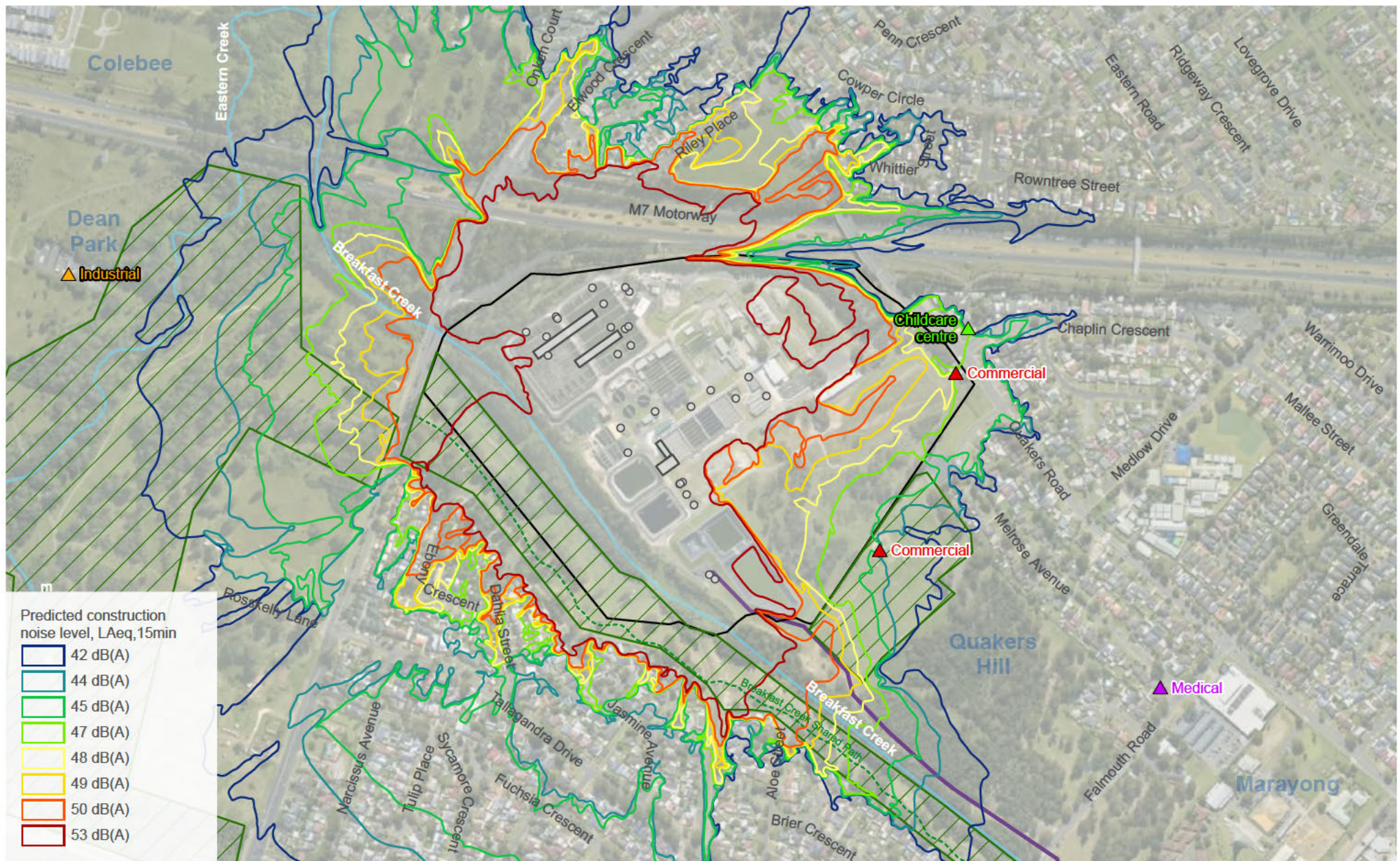


Figure D.4a Operational contour maps - Unmitigated with Standard Met. Conditions

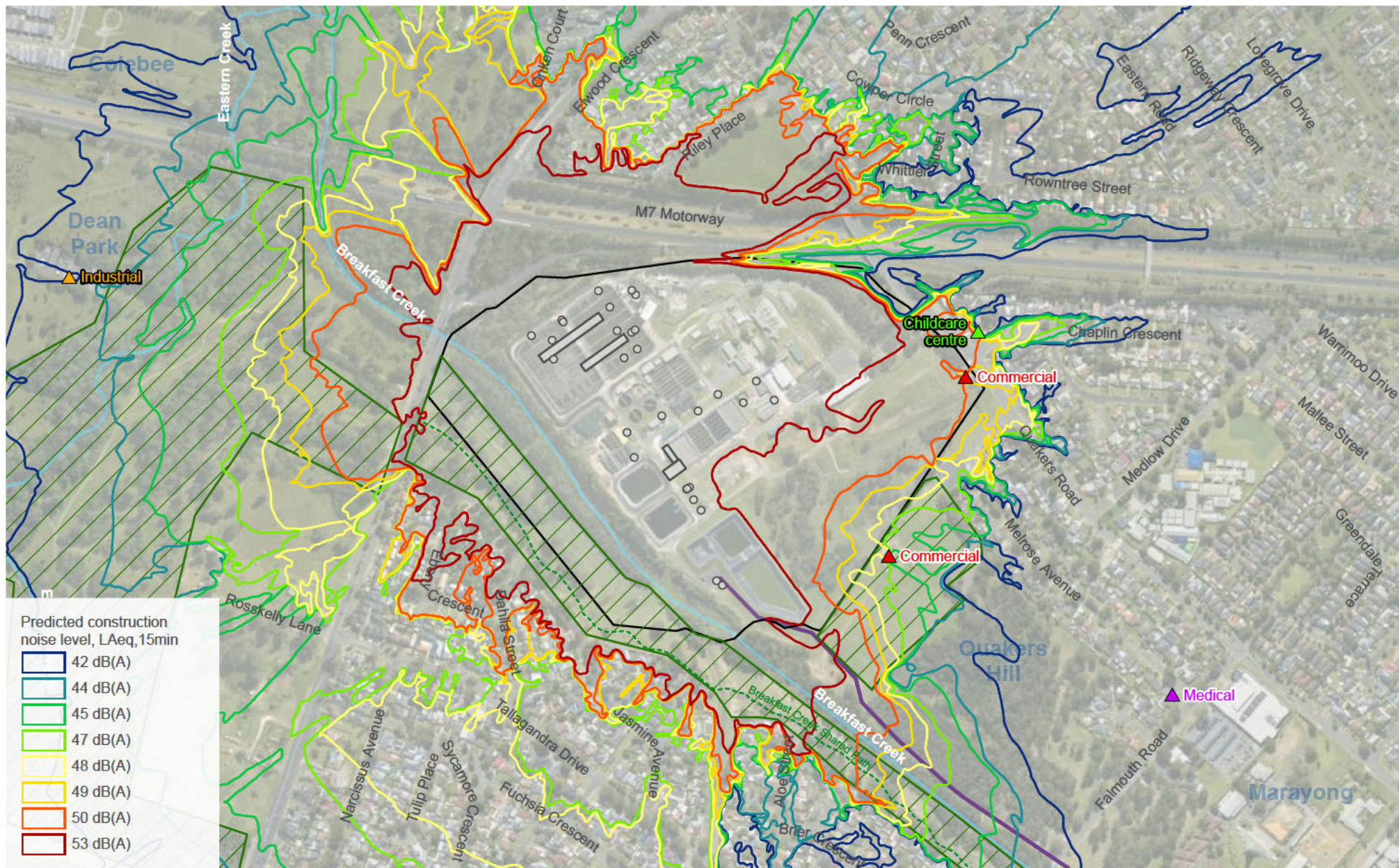


Figure D.4b Operational contour maps - Unmitigated with Noise Enhancing Met. Conditions

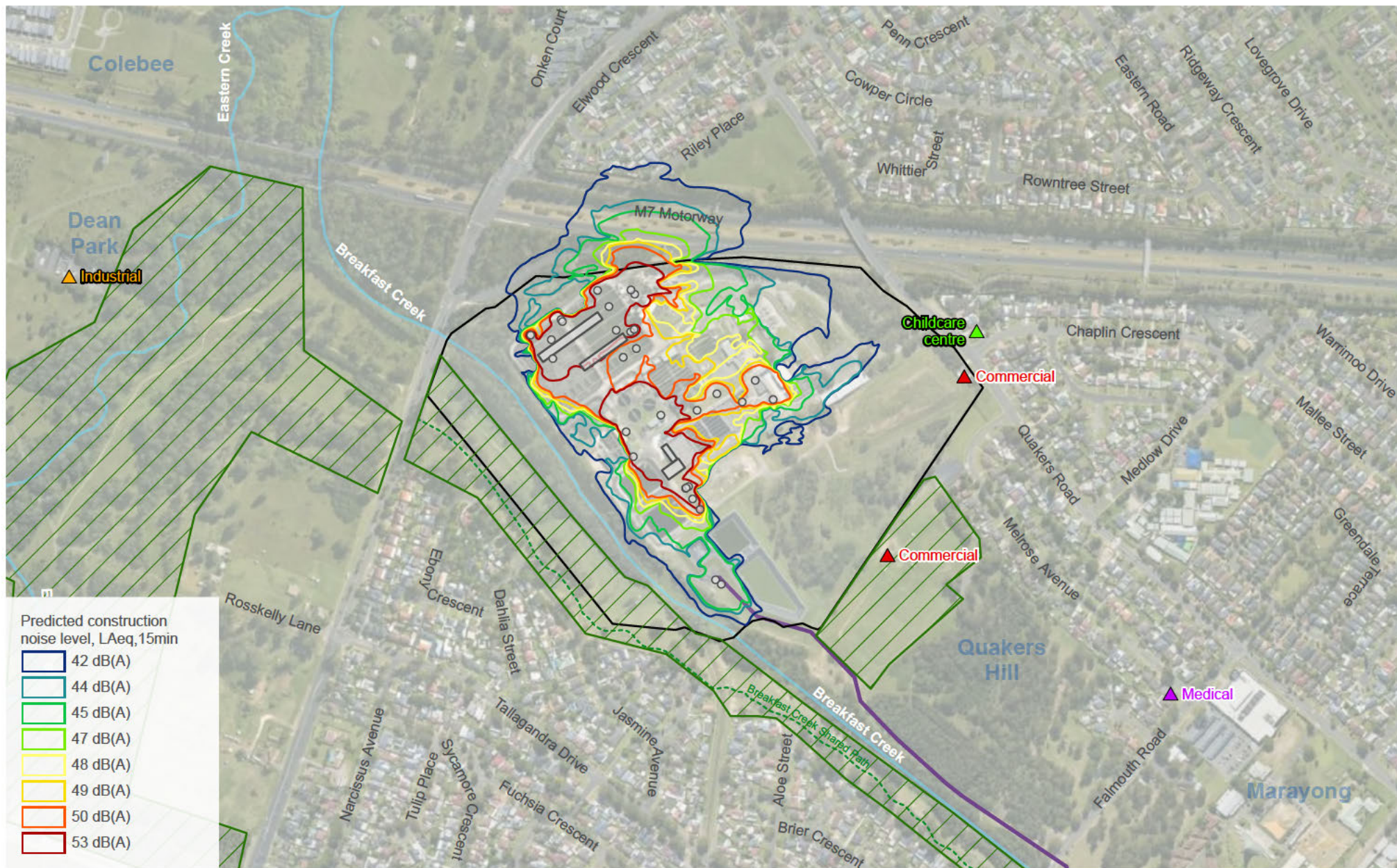


Figure D.4c Operational contour maps - Mitigated with Standard Met. Conditions

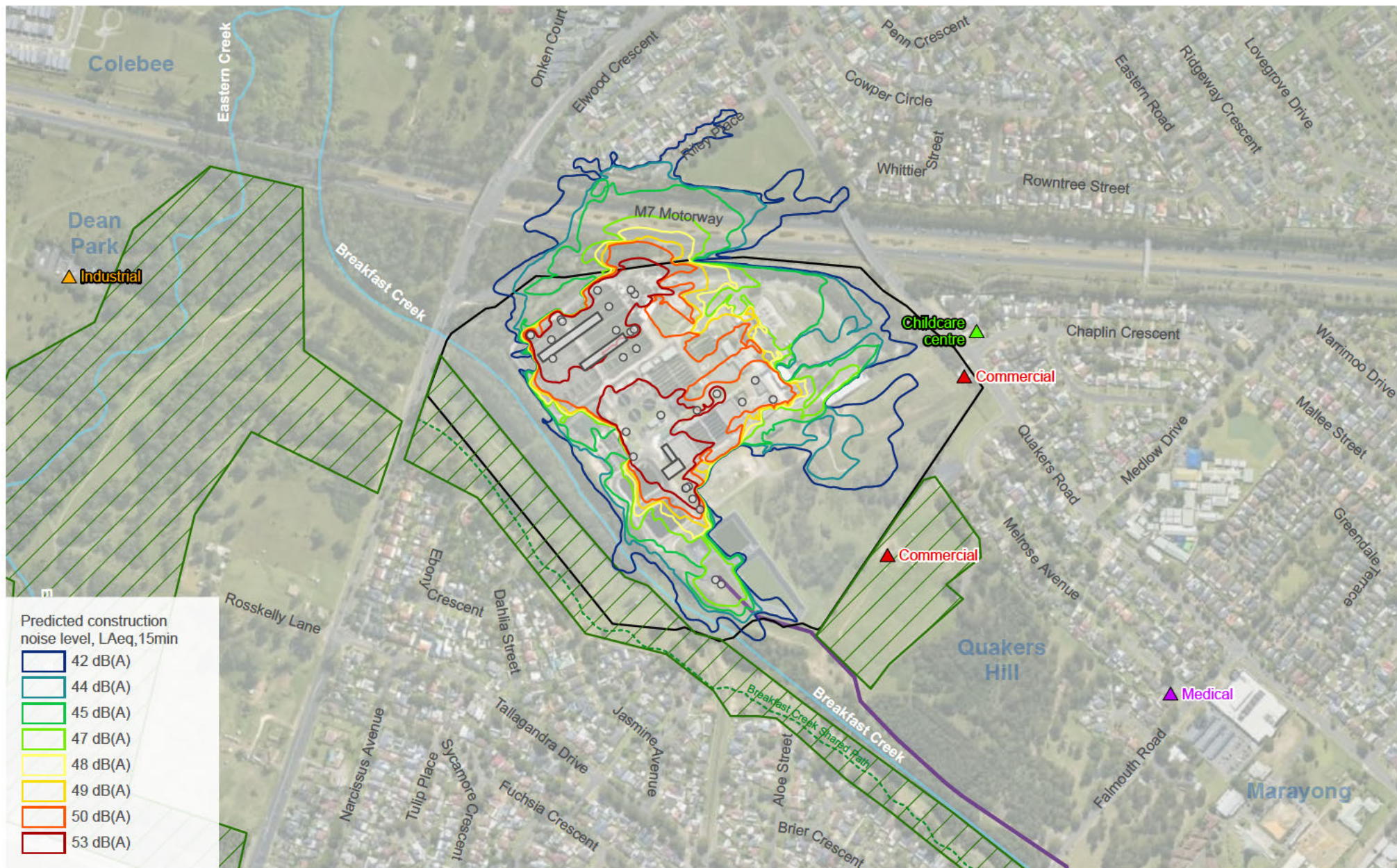


Figure D.4d Operational contour maps - Mitigated with Noise Enhancing Met. Conditions

Appendix E. Vibration setback distances

E.1 Quakers Hill WRRF vibration setbacks

This information has been redacted to protect sensitive Aboriginal heritage information

This information has been redacted to protect sensitive Aboriginal heritage information

This information has been redacted to protect sensitive Aboriginal heritage information

E.2 Pipeline construction vibration setbacks

This information has been redacted to protect sensitive Aboriginal heritage information

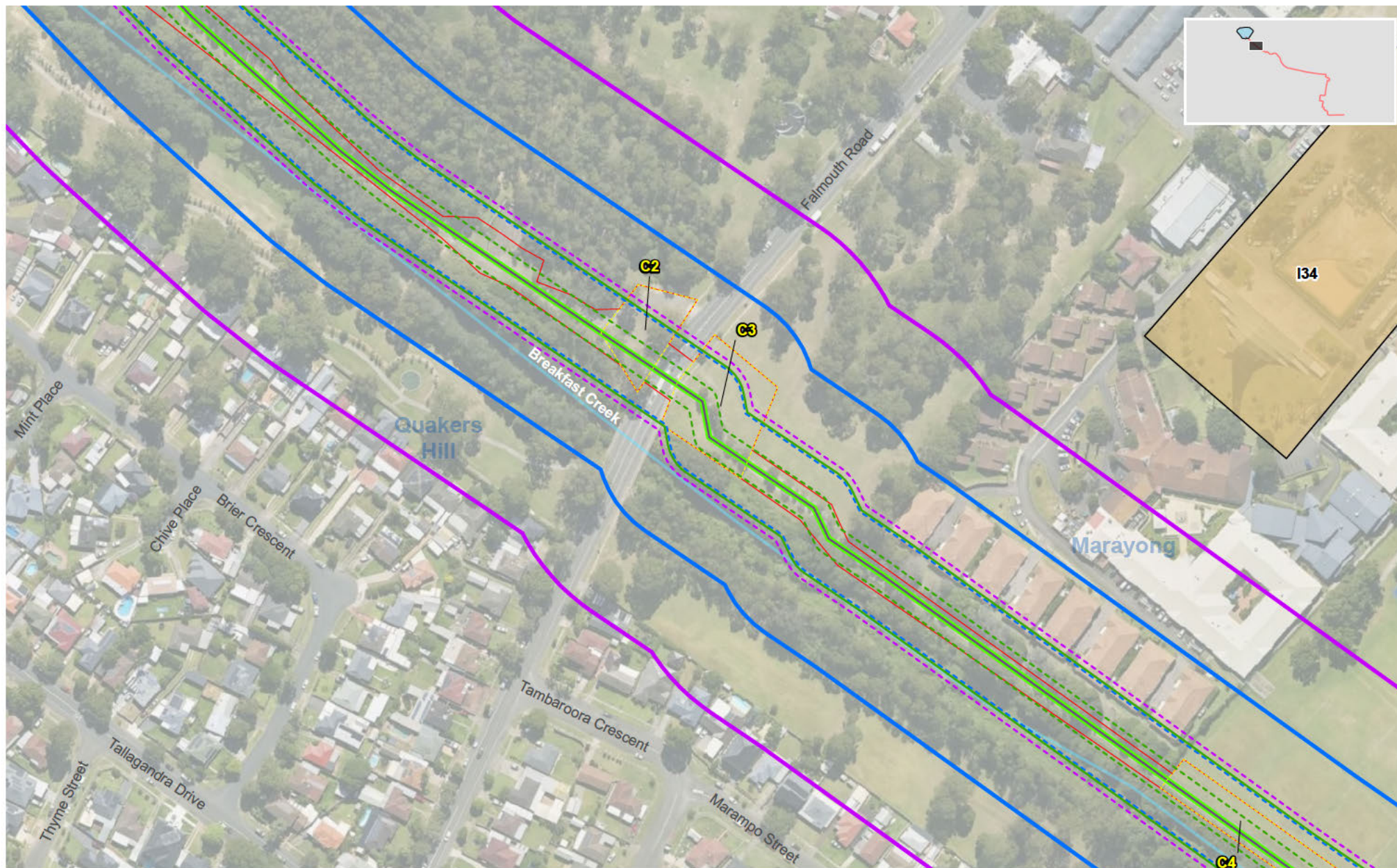


Figure E.2b Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56



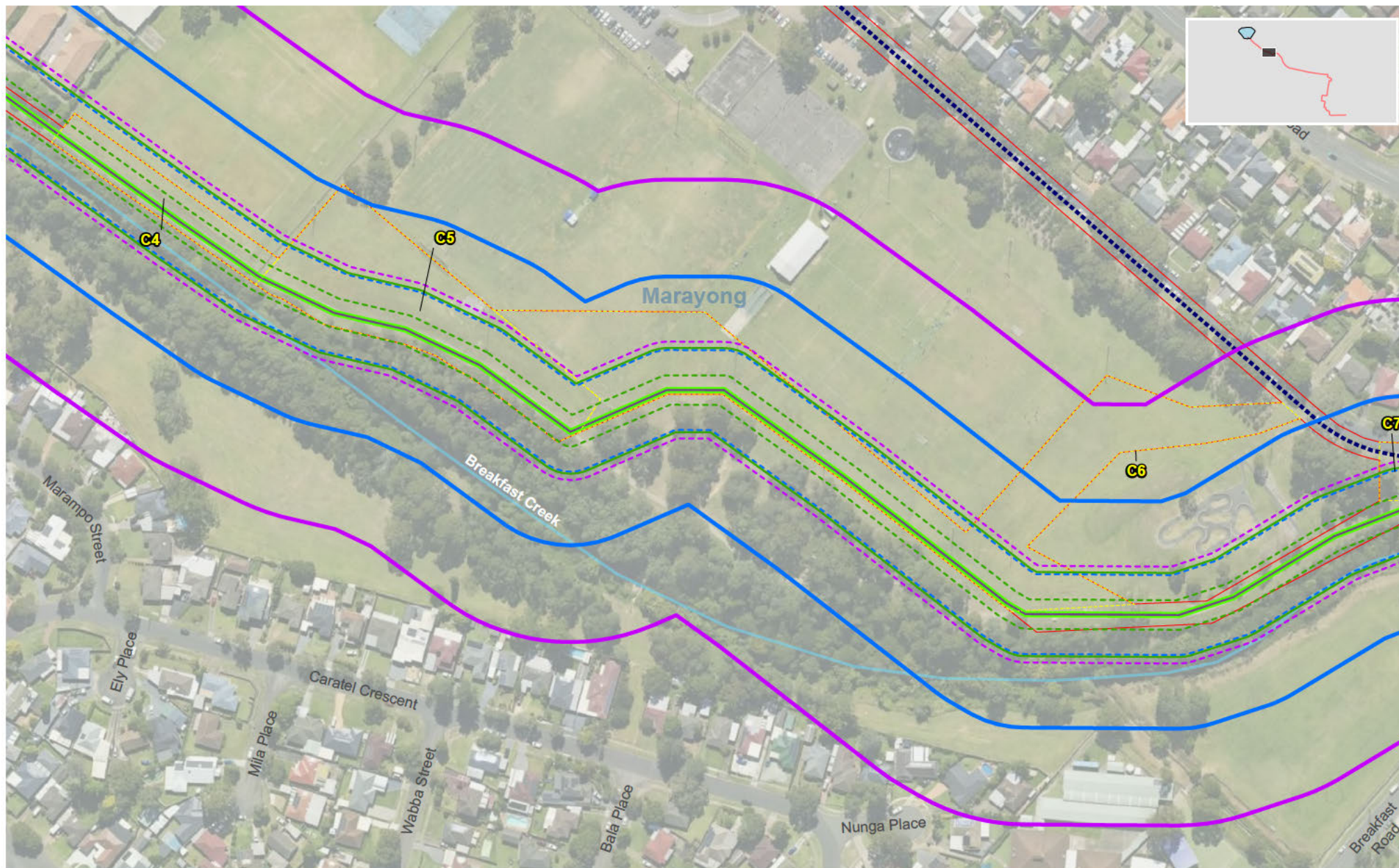


Figure E.2c Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD pipe string

Cosmetic damage impact
Asphalt paver (1 m)
Excavator with medium hammer (7 m)
Vibratory roller (13-18t) (20 m)

Heritage item impact
Excavator with medium hammer (19m)
Vibratory roller (13-18t) (54 m)

Human comfort
Excavator with medium hammer (23m)
Vibratory roller (13-18t) (100 m)

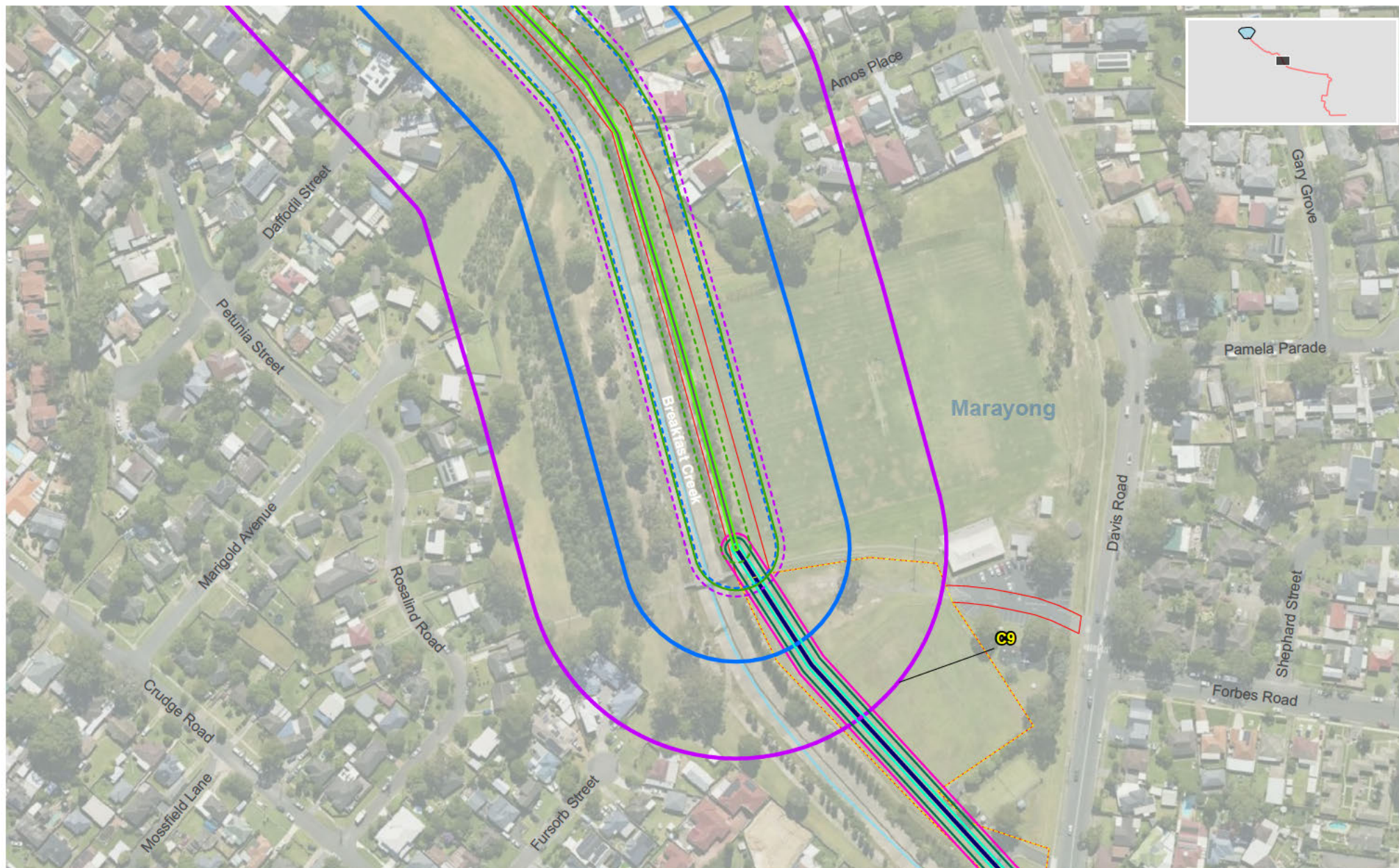
Figure E.2d Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56





- Brine pipeline impact area
- Construction compounds

- Brine pipeline construction method
- Open trench
- HDD
- HDD pipe string

- Cosmetic damage impact
- Horizontal drilling rig (2m)
- Asphalt paver (1 m)
- Excavator with medium hammer (7 m)
- Vibratory roller (13-18t) (20 m)

- Heritage item impact
- Horizontal drilling rig (5m)
- Excavator with medium hammer (19m)
- Vibratory roller (13-18t) (54 m)

- Human comfort
- Horizontal drilling rig (7m)
- Excavator with medium hammer (23m)
- Vibratory roller (13-18t) (100 m)

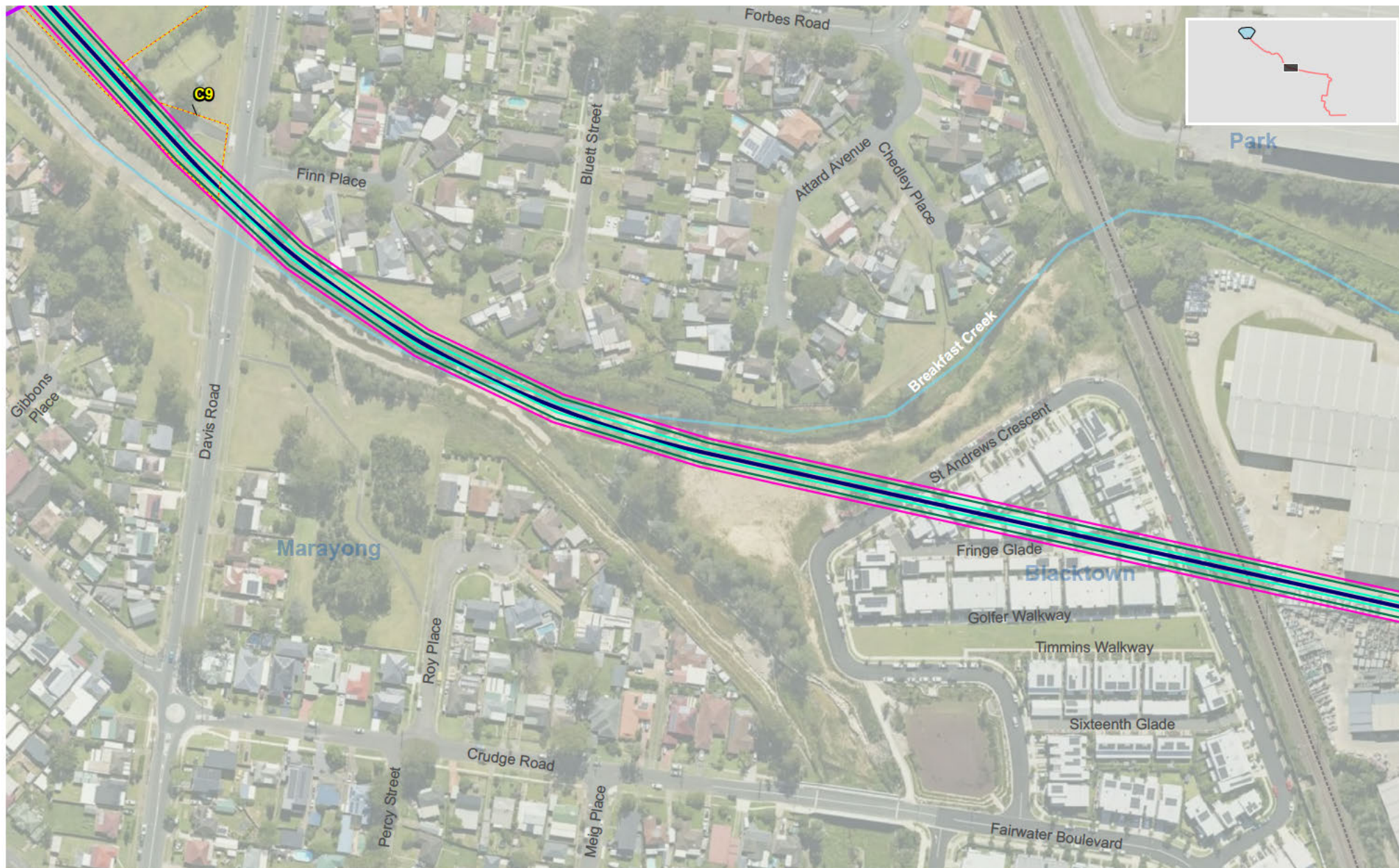
Figure E.2e Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area
Construction compounds

Brine pipeline construction method
HDD

Cosmetic damage impact
Horizontal drilling rig (2m)

Heritage item impact
Horizontal drilling rig (5m)

Human comfort
Horizontal drilling rig (7m)
Vibratory roller (13-18t) (100 m)

Figure E.2f Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56



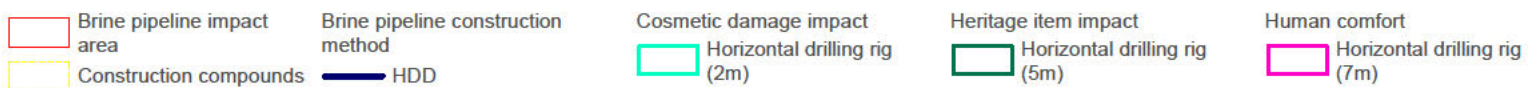


Figure E.2g Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56





Brine pipeline construction method
 HDD

Cosmetic damage impact
 Horizontal drilling rig (2m)

Heritage item impact
 Horizontal drilling rig (5m)

Human comfort
 Horizontal drilling rig (7m)

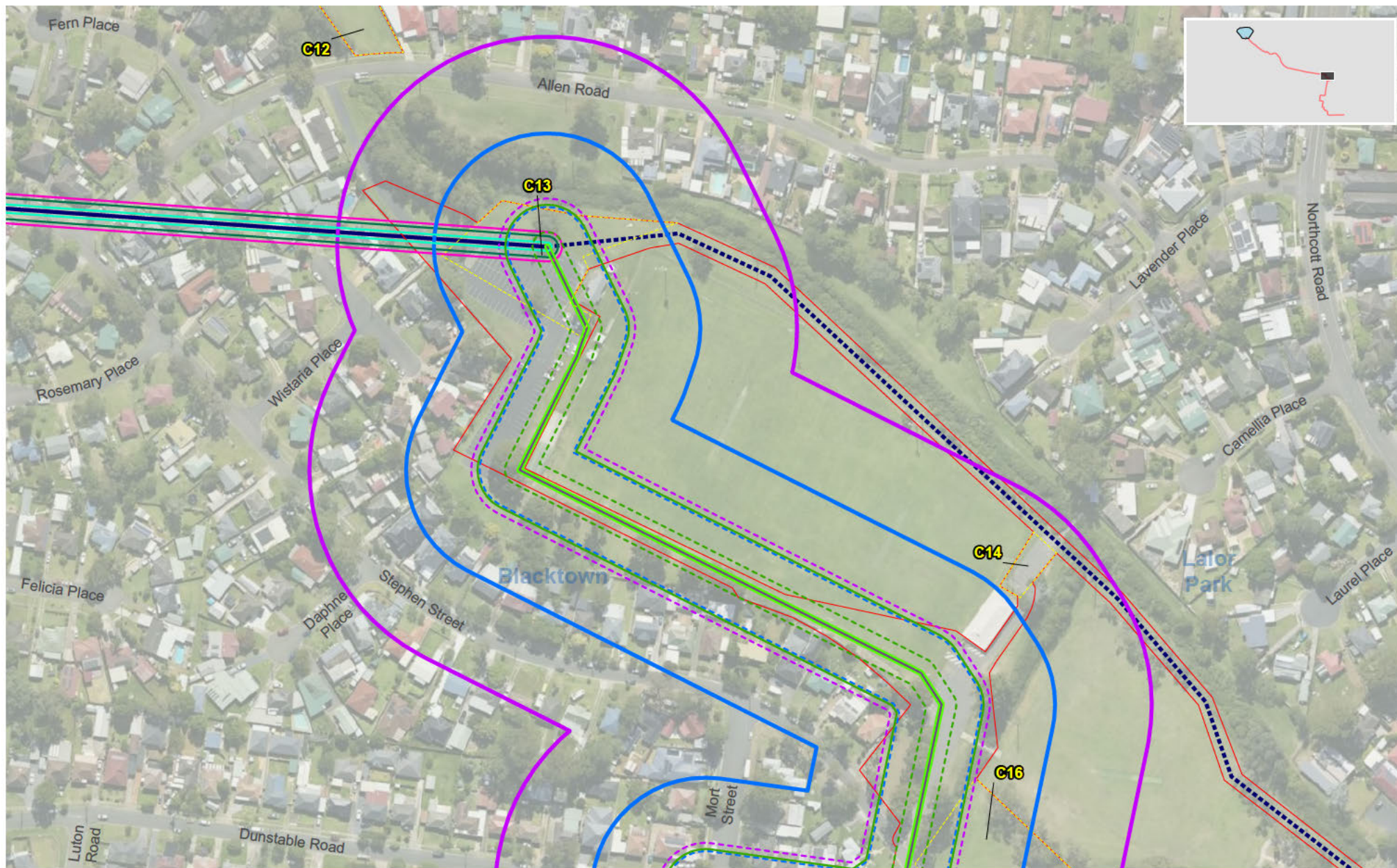
Figure E.2h Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
 Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
 GDA2020 MGA Zone 56





- Brine pipeline impact area
- Construction compounds

- Brine pipeline construction method
- Open trench
 - HDD
 - HDD pipe string

- Cosmetic damage impact
- Horizontal drilling rig (2m)
 - Asphalt paver (1 m)
 - Excavator with medium hammer (7 m)
 - Vibratory roller (13-18t) (20 m)

- Heritage item impact
- Horizontal drilling rig (5m)
 - Excavator with medium hammer (19m)
 - Vibratory roller (13-18t) (54 m)

- Human comfort
- Horizontal drilling rig (7m)
 - Excavator with medium hammer (23m)
 - Vibratory roller (13-18t) (100 m)

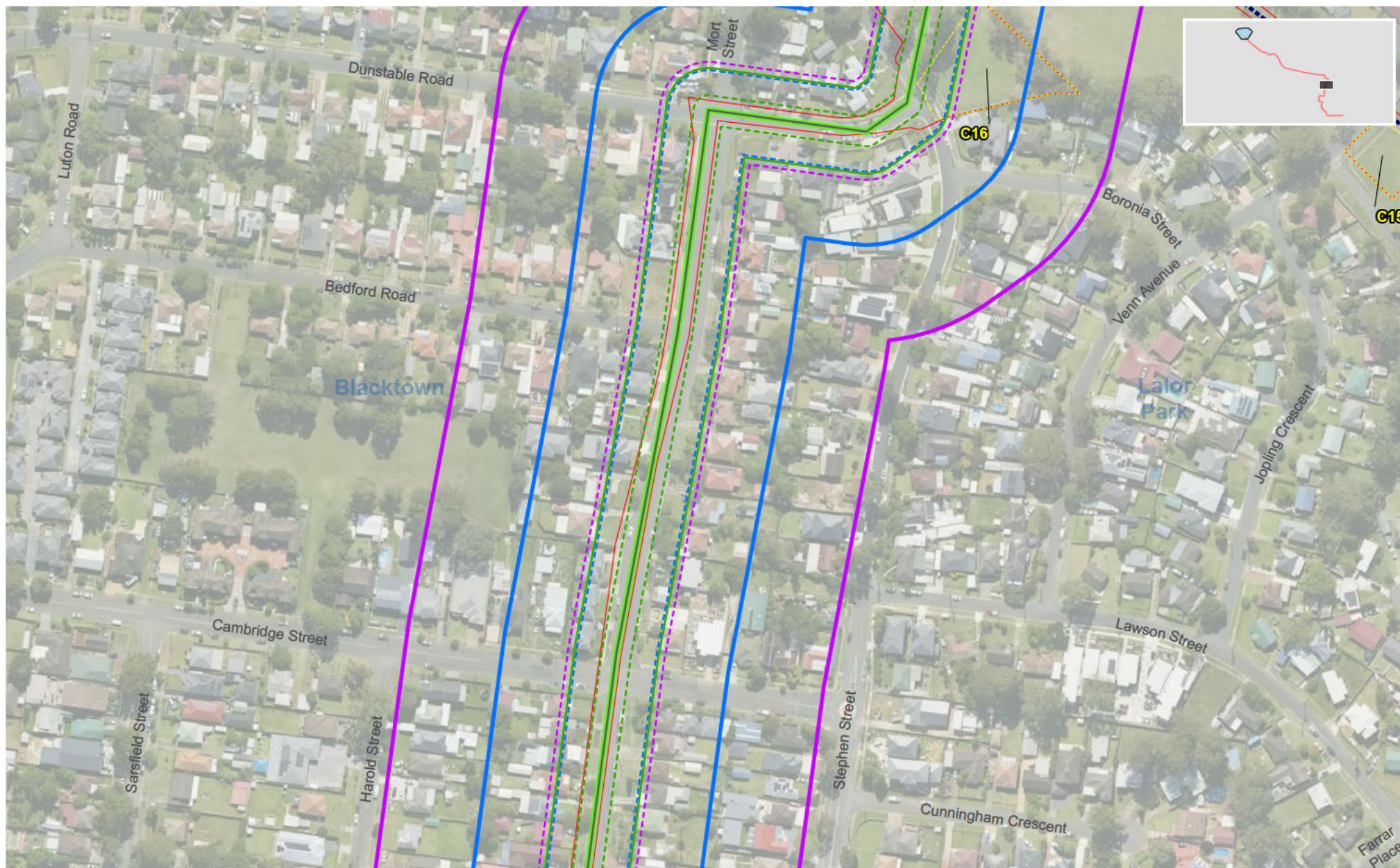
Figure E.2i Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56





- Brine pipeline impact area
- Construction compounds

- Brine pipeline construction method
- Open trench
 - HDD pipe string

- Cosmetic damage impact
- Asphalt paver (1 m)
 - Excavator with medium hammer (7 m)
 - Vibratory roller (13-18t) (20 m)

- Heritage item impact
- Excavator with medium hammer (19m)
 - Vibratory roller (13-18t) (54 m)

- Human comfort
- Excavator with medium hammer (23m)
 - Vibratory roller (13-18t) (100 m)

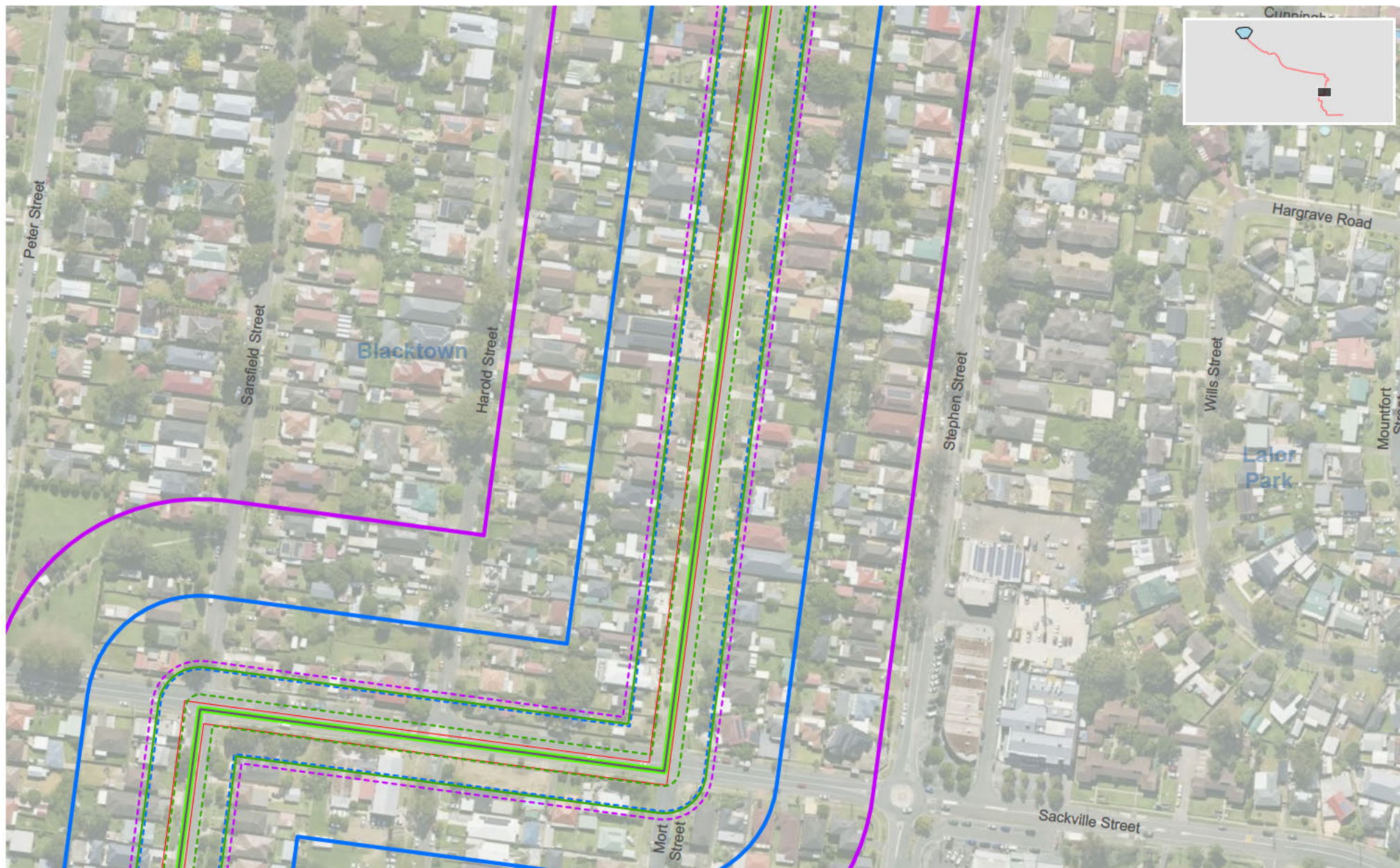
Figure E.2j Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56





Brine pipeline impact area

Brine pipeline construction method

Open trench

Cosmetic damage impact

Asphalt paver (1 m)

Excavator with medium hammer (7 m)

Vibratory roller (13-18t) (20 m)

Heritage item impact

Excavator with medium hammer (19m)

Vibratory roller (13-18t) (54 m)

Human comfort

Excavator with medium hammer (23m)

Vibratory roller (13-18t) (100 m)

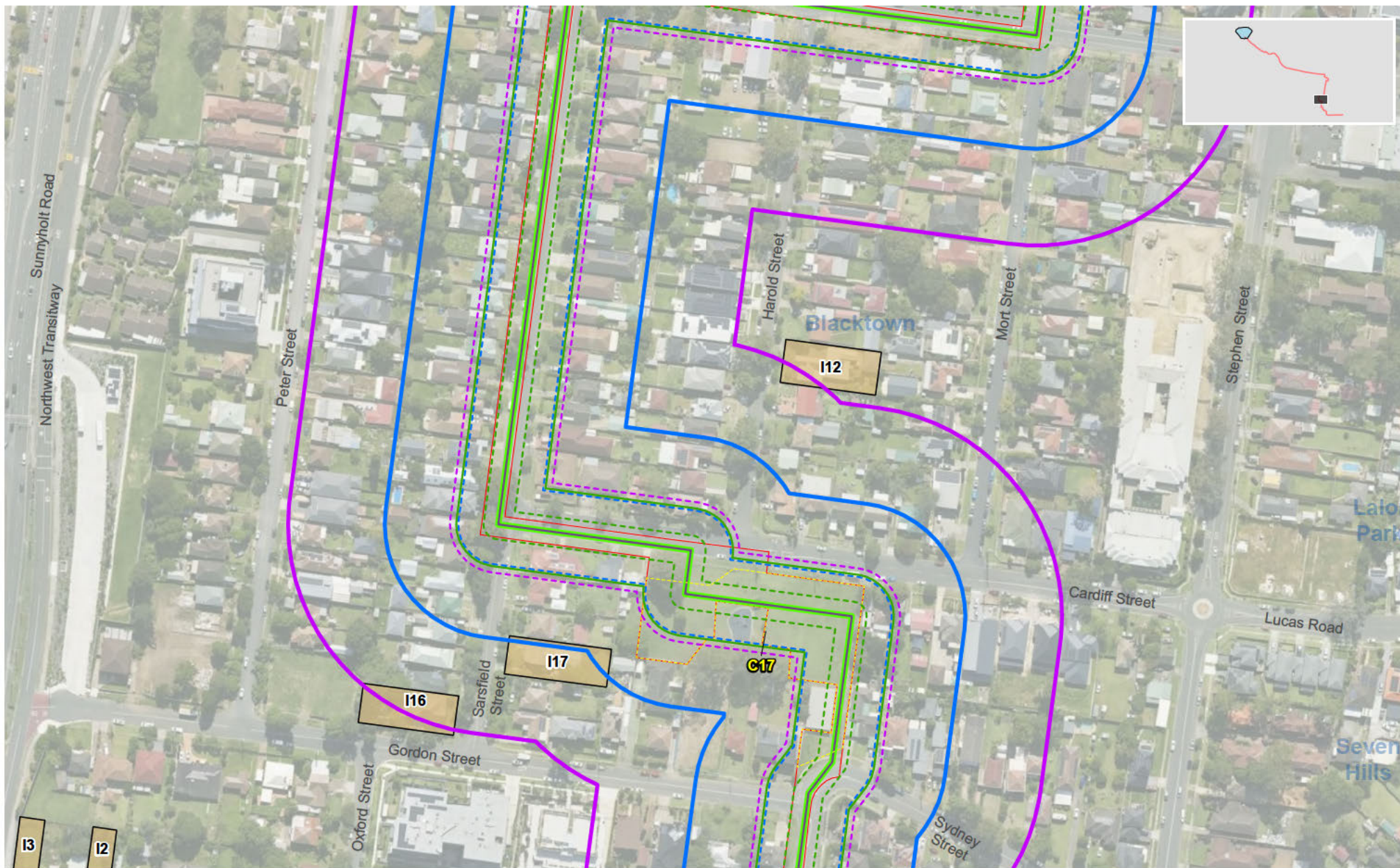
Figure E.2k Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56





- | | | | | | |
|----------------------------|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Brine pipeline impact area | Brine pipeline construction method | Local heritage (EPI) Item - General | Cosmetic damage impact | Heritage item impact | Human comfort |
| Construction compounds | Open trench | | Asphalt paver (1 m) | Excavator with medium hammer (19m) | Excavator with medium hammer (23m) |
| | | | Excavator with medium hammer (7 m) | Vibratory roller (13-18t) (54 m) | Vibratory roller (13-18t) (100 m) |
| | | | Vibratory roller (13-18t) (20 m) | | |

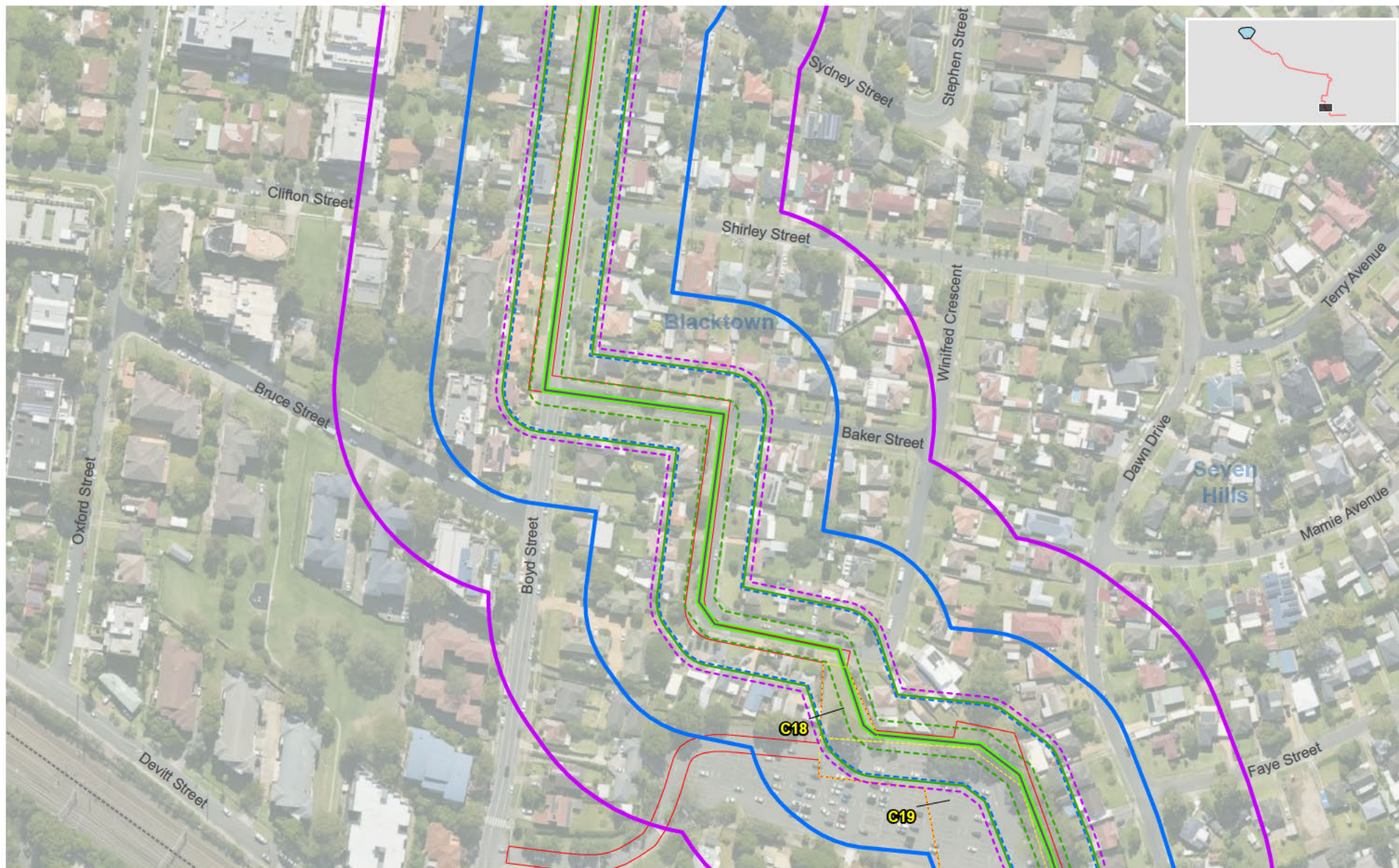
Figure E.21 Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56





- Brine pipeline impact area
- Construction compounds

- Brine pipeline construction method
- Open trench

- Cosmetic damage impact
 - Asphalt paver (1 m)
 - Excavator with medium hammer (7 m)
 - Vibratory roller (13-18t) (20 m)

- Heritage item impact
 - Excavator with medium hammer (19m)
 - Vibratory roller (13-18t) (54 m)

- Human comfort
 - Excavator with medium hammer (23m)
 - Vibratory roller (13-18t) (100 m)

Figure E.2m Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56



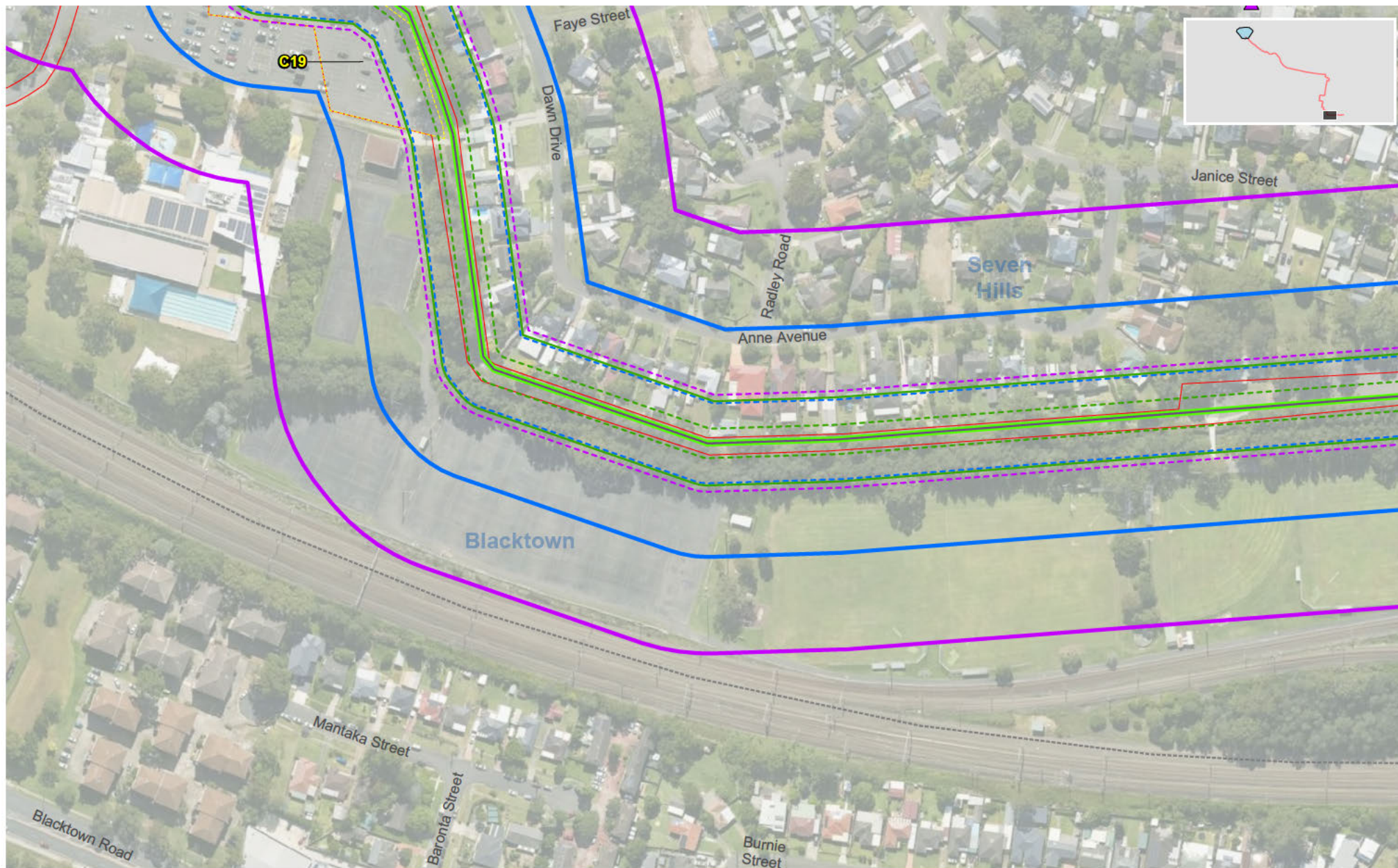


Figure E.2n Vibration setback pipeline

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56



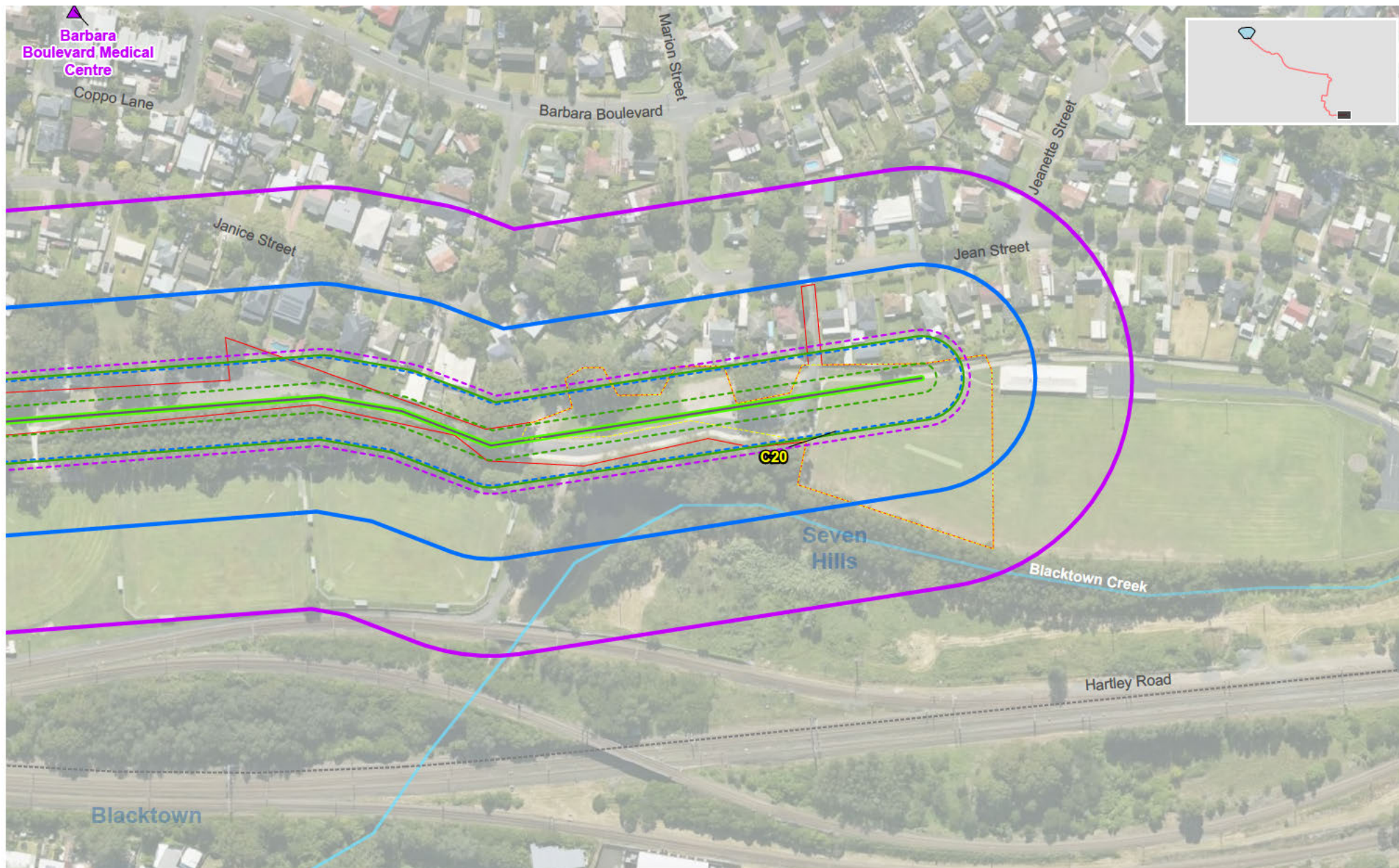


Figure E.2o Vibration setback pipeline

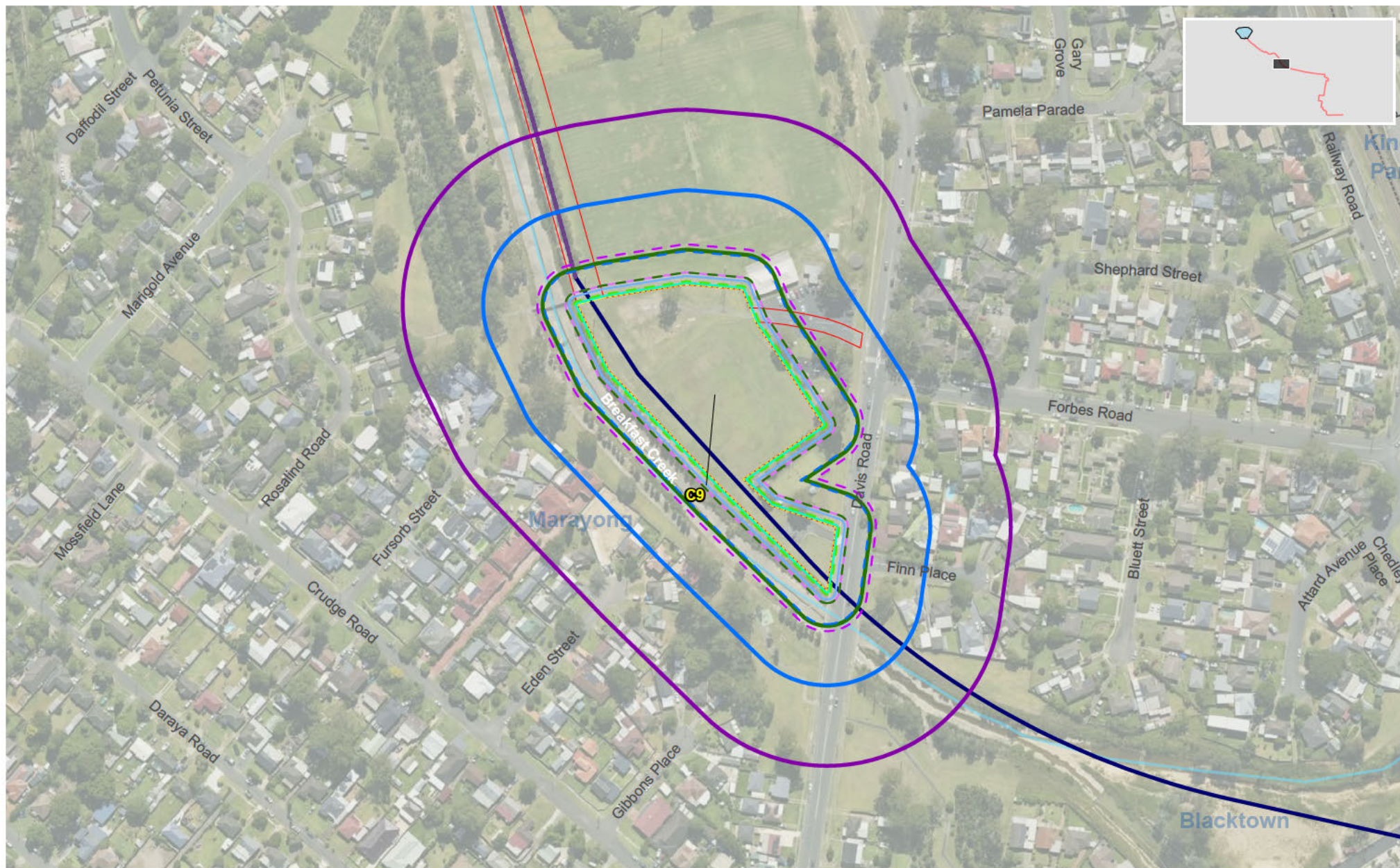
0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,500 @ A4
GDA2020 MGA Zone 56



E.3 Pipeline construction compound vibration setbacks



Brine pipeline impact area
Construction compounds

Brine pipeline construction method
Open trench
HDD
HDD pipe string

Heritage item impact
Excavator with medium hammer (19m)
Horizontal drilling rig (5m)
Vibratory roller (13-18t) (54m)

Cosmetic damage
Asphalt paver (1 m)
Horizontal drilling rig (2 m)
Excavator with medium hammer (7 m)
Vibratory roller (13-18t) (20 m)

Human comfort
Horizontal drilling rig (7m)
Excavator with medium hammer (23m)
Vibratory roller (13-18t) (100m)

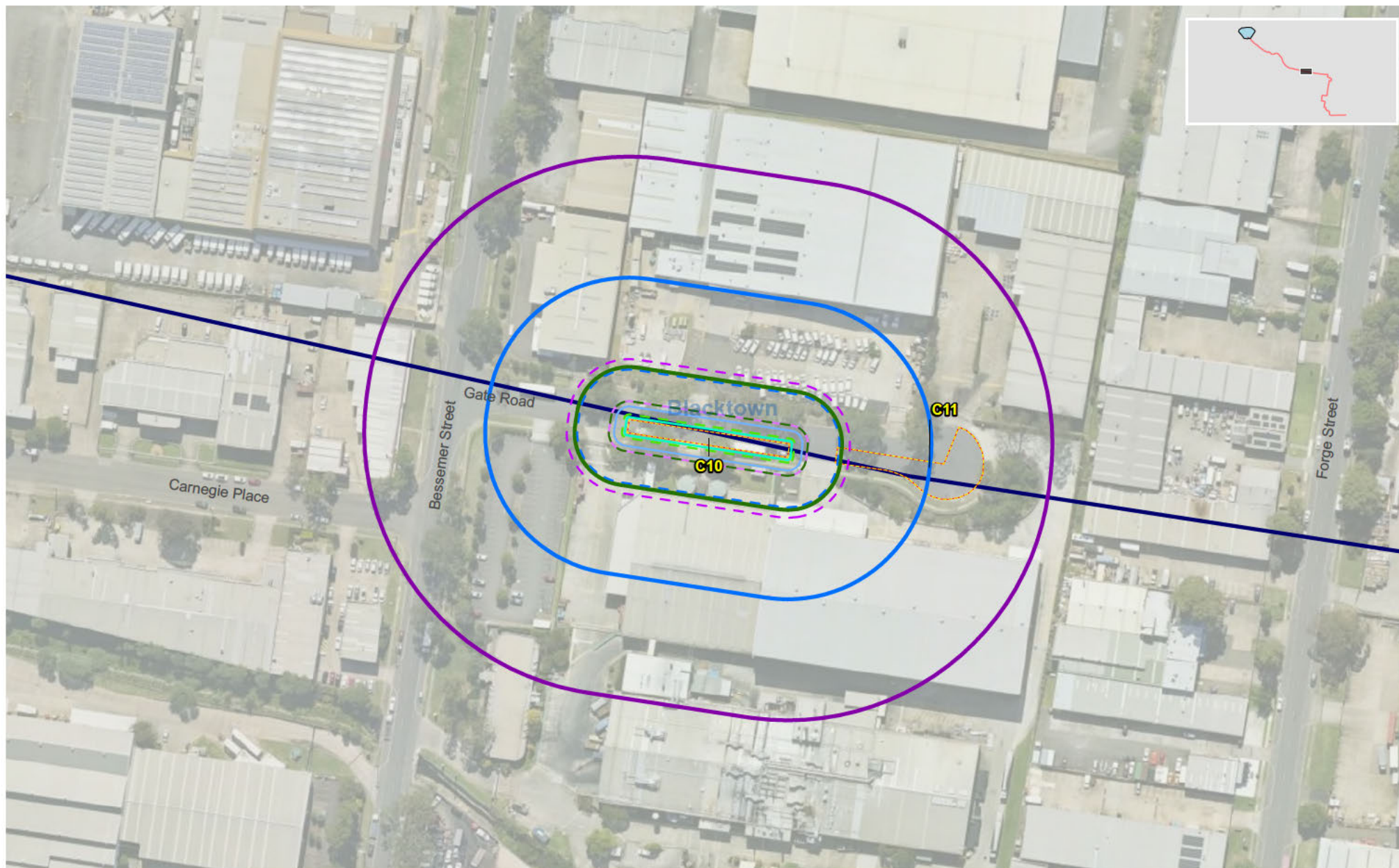
Figure E.3a Vibration setback compounds (C9)

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:3,000 @ A4
GDA2020 MGA Zone 56





 Brine pipeline impact area
 Construction compounds
 HDD

Heritage item impact
 Excavator with medium hammer (19m)
 Horizontal drilling rig (5m)
 Vibratory roller (13-18t) (54m)

Cosmetic damage
 Asphalt paver (1 m)
 Horizontal drilling rig (2 m)
 Excavator with medium hammer (7 m)
 Vibratory roller (13-18t) (20 m)

Human comfort
 Horizontal drilling rig (7m)
 Excavator with medium hammer (23m)
 Vibratory roller (13-18t) (100m)

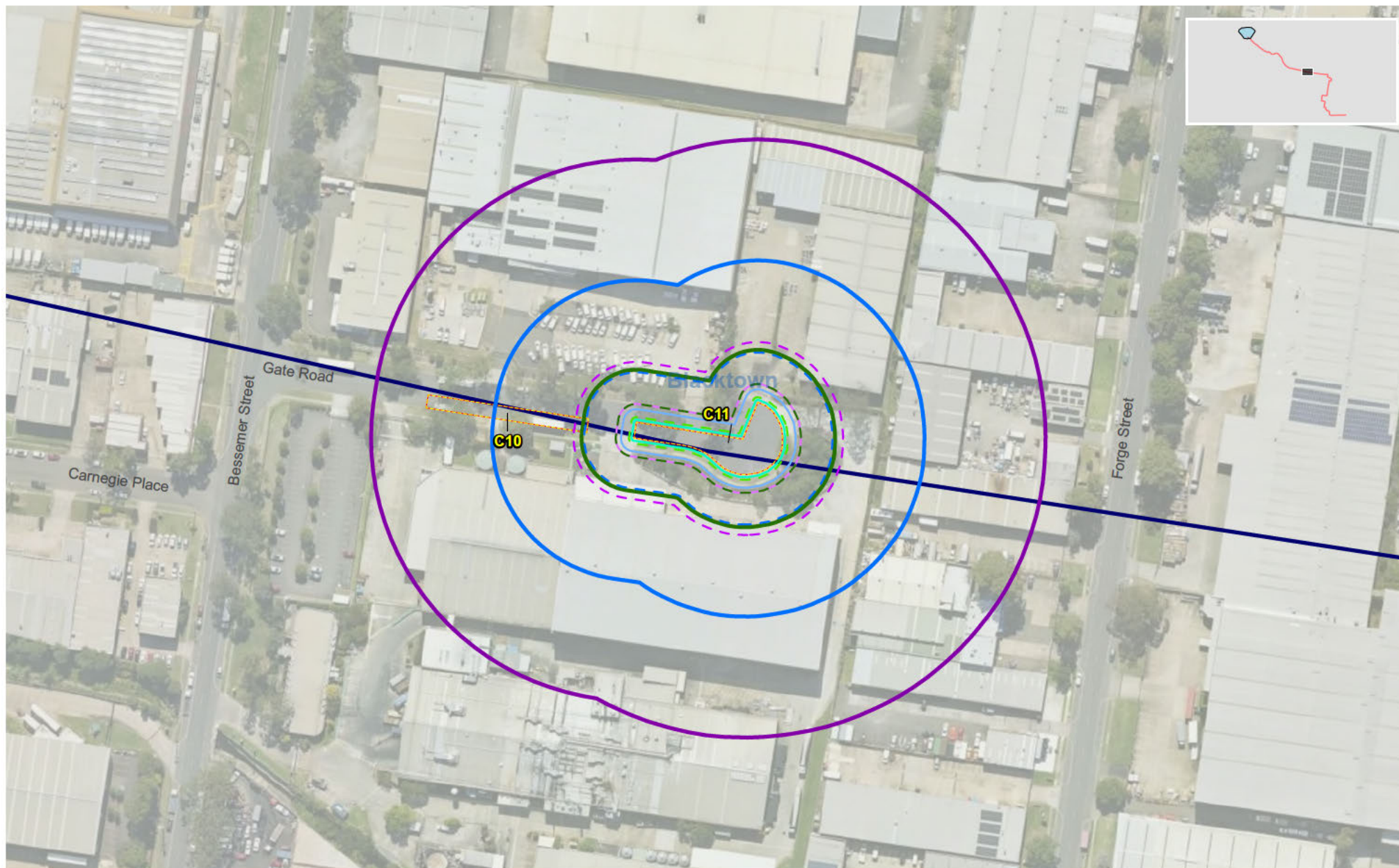
Figure E.3b Vibration setback compounds (C10)

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
 Basemap: MetroMap 2024

Scale: 1:2,000 @ A4
 GDA2020 MGA Zone 56





Brine pipeline impact area
 Construction compounds
 HDD

Heritage item impact
 Excavator with medium hammer (19m)
 Horizontal drilling rig (5m)
 Vibratory roller (13-18t) (54m)

Cosmetic damage
 Asphalt paver (1 m)
 Horizontal drilling rig (2 m)
 Excavator with medium hammer (7 m)
 Vibratory roller (13-18t) (20 m)

Human comfort
 Horizontal drilling rig (7m)
 Excavator with medium hammer (23m)
 Vibratory roller (13-18t) (100m)

Figure E.3c Vibration setback compounds (C11)

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,000 @ A4
GDA2020 MGA Zone 56



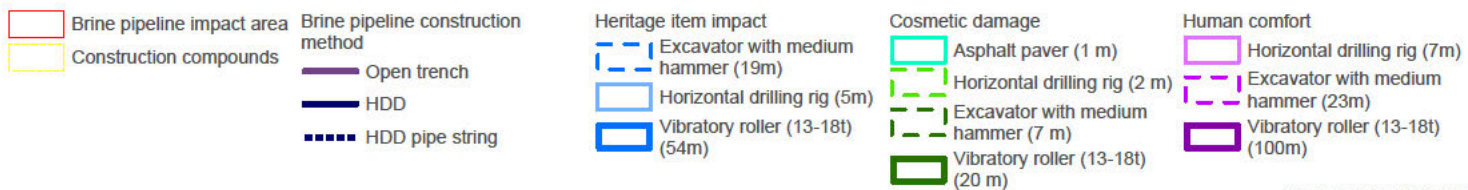


Figure E.3d Vibration setback compounds (C13)

0 100 m

Data sources: State of NSW (Spatial Services), NSW Department of Planning and Environment
Basemap: MetroMap 2024

Scale: 1:2,000 @ A4
GDA2020 MGA Zone 56

