
APPENDIX I

FUTURE DESIGN RESIDENCES OVER ACUTE AND ALLOWANCE
LEVELS WITH INDICATIVE FUTURE BARRIERS – 2023

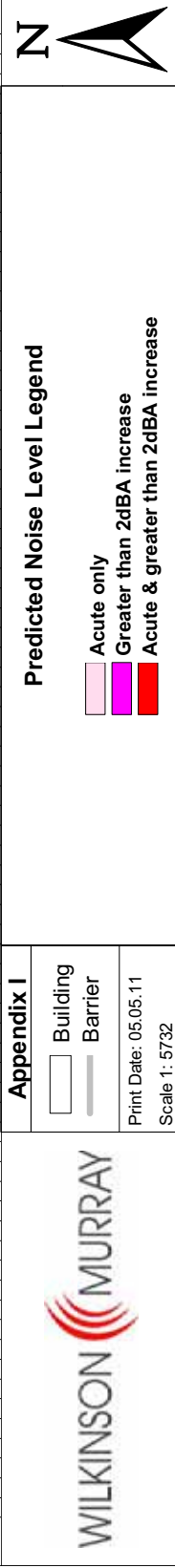


Print Date: 05.05.11
Scale 1: 5732

Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase



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Predicted Yr2023 Night LAeq(9hrs) Levels: M7_HH_N & CVW_HH_S

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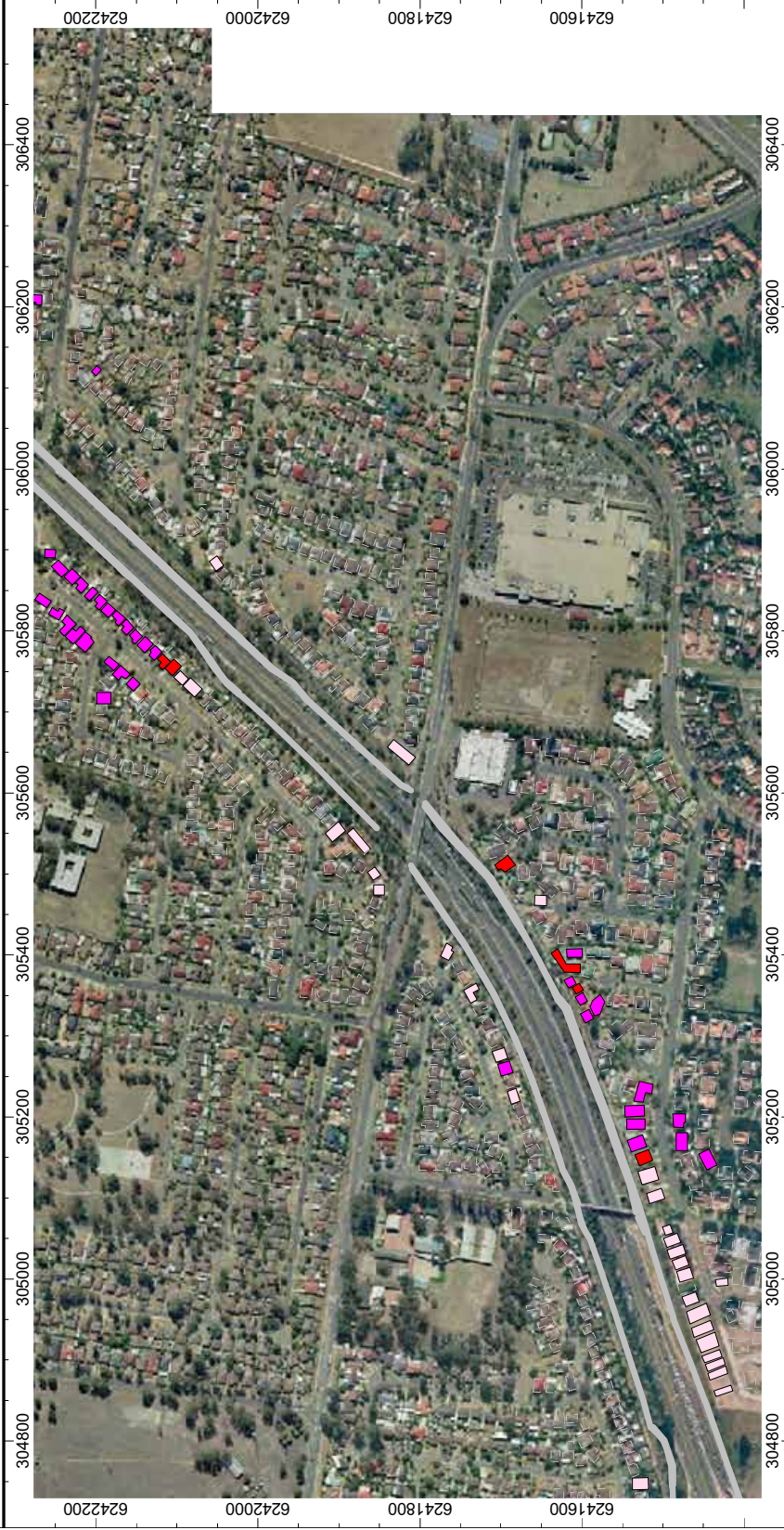
	Building
	Barrier

Print Date: 05.05.11
Scale 1 : 5732

Wilkinson MURRAY

Predicted Noise Level Legend

- Acute only
- Greater than 2dBA increase
- Acute & greater than 2dBA increase



Predicted Noise Level Legend

- Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

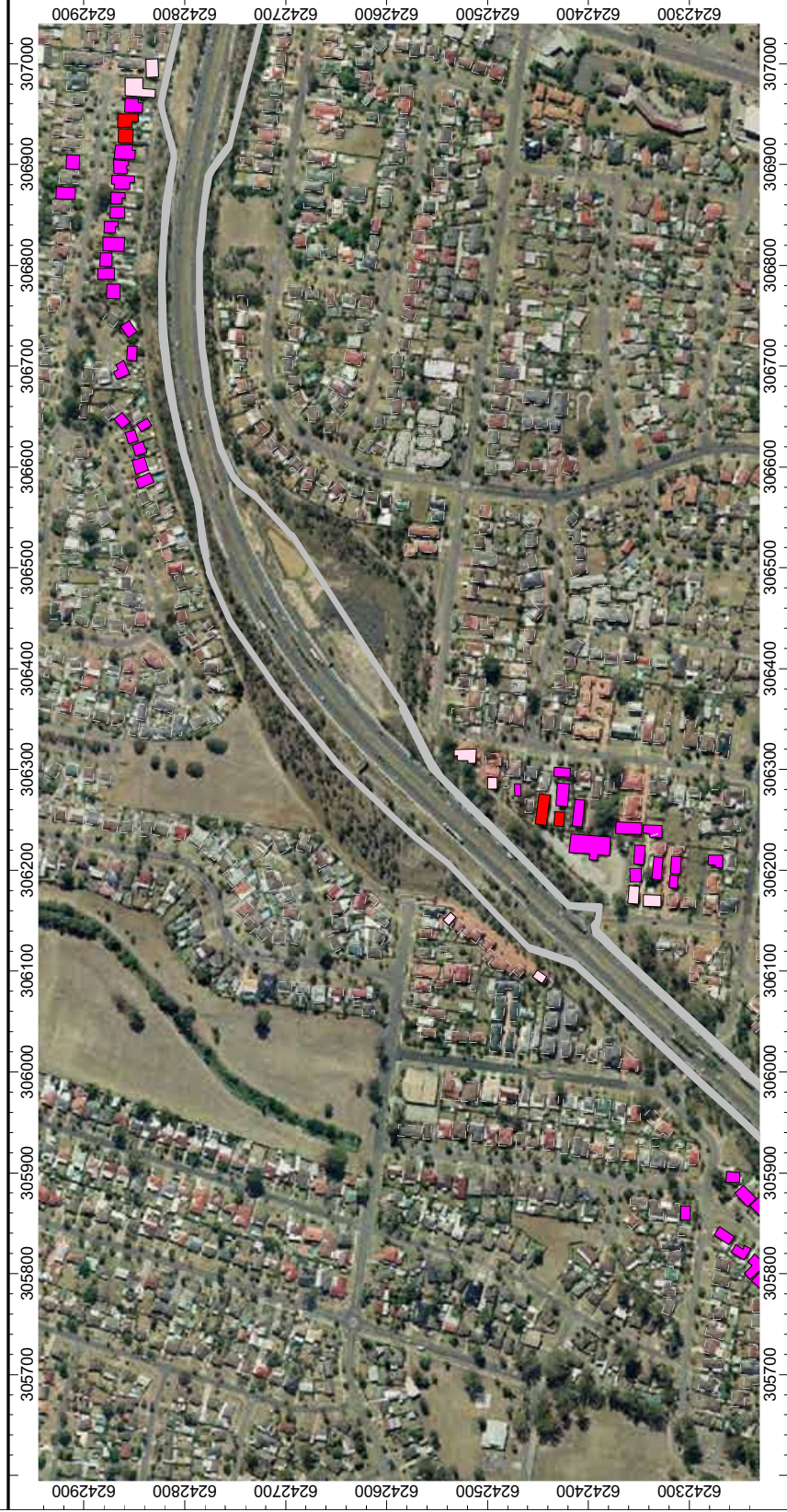
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Predicted Yr2023 Night LAeq(9hrs) Levels: M7_HH_N & CVW_HH_S





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 Building	Predicted Noise Level Legend
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 Acute only	Predicted Noise Level Legend
 Greater than 2dBA increase	
 Acute & greater than 2dBA increase	

Predicted Yr2023 Night LAeq(9hrs) Levels: M7_HH_N & CVW_HH_S

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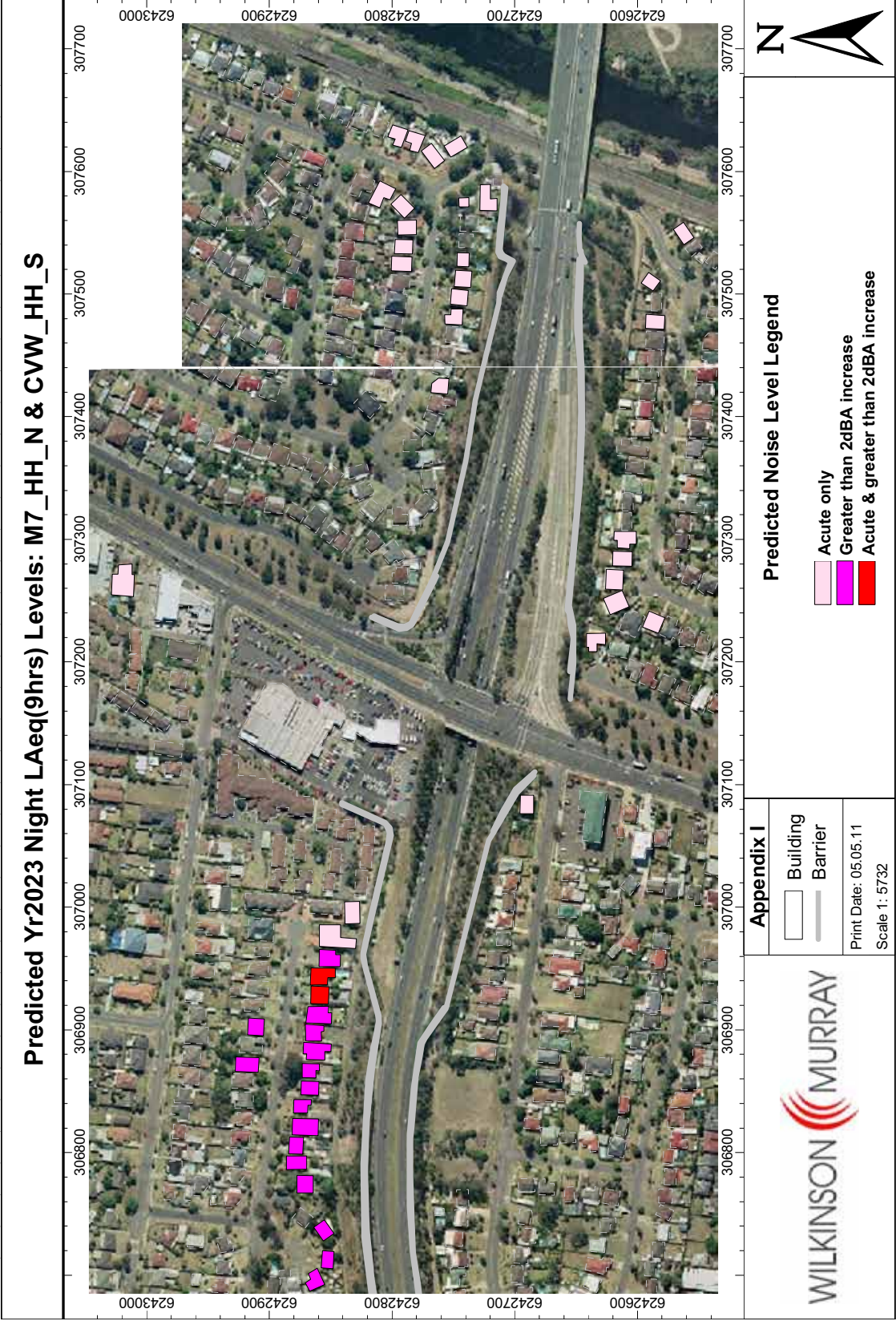
	Building
	Barrier

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Wilkinson Murray

Predicted Noise Level Legend

- Acute only
- Greater than 2dBA increase
- Acute & greater than 2dBA increase



Predicted Yr2023 Night LAeq(9hrs) Levels: M7_HH_N & CVW_HH_S

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Predicted Noise Level Legend

- Acute only
- Greater than 2dBA increase
- Acute & greater than 2dBA increase

Predicted Yr2023 Night LAeq(9hrs) Levels: M7_HH_N & CVW_HH_S

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Predicted Noise Level Legend

- Acute only
- Greater than 2dBA increase
- Acute & greater than 2dBA increase

- Predicted Yr2023 Night LAeq(9hrs) Levels: M7_HH_N & CVW_HH_S**

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Predicted Noise Level Legend

 - Acute only
 - Greater than 2dBA increase
 - Acute & greater than 2dBA increase

Predicted Yr2023 Night LAeq(9hrs) Levels: M7_HH_N & CVW_HH_S

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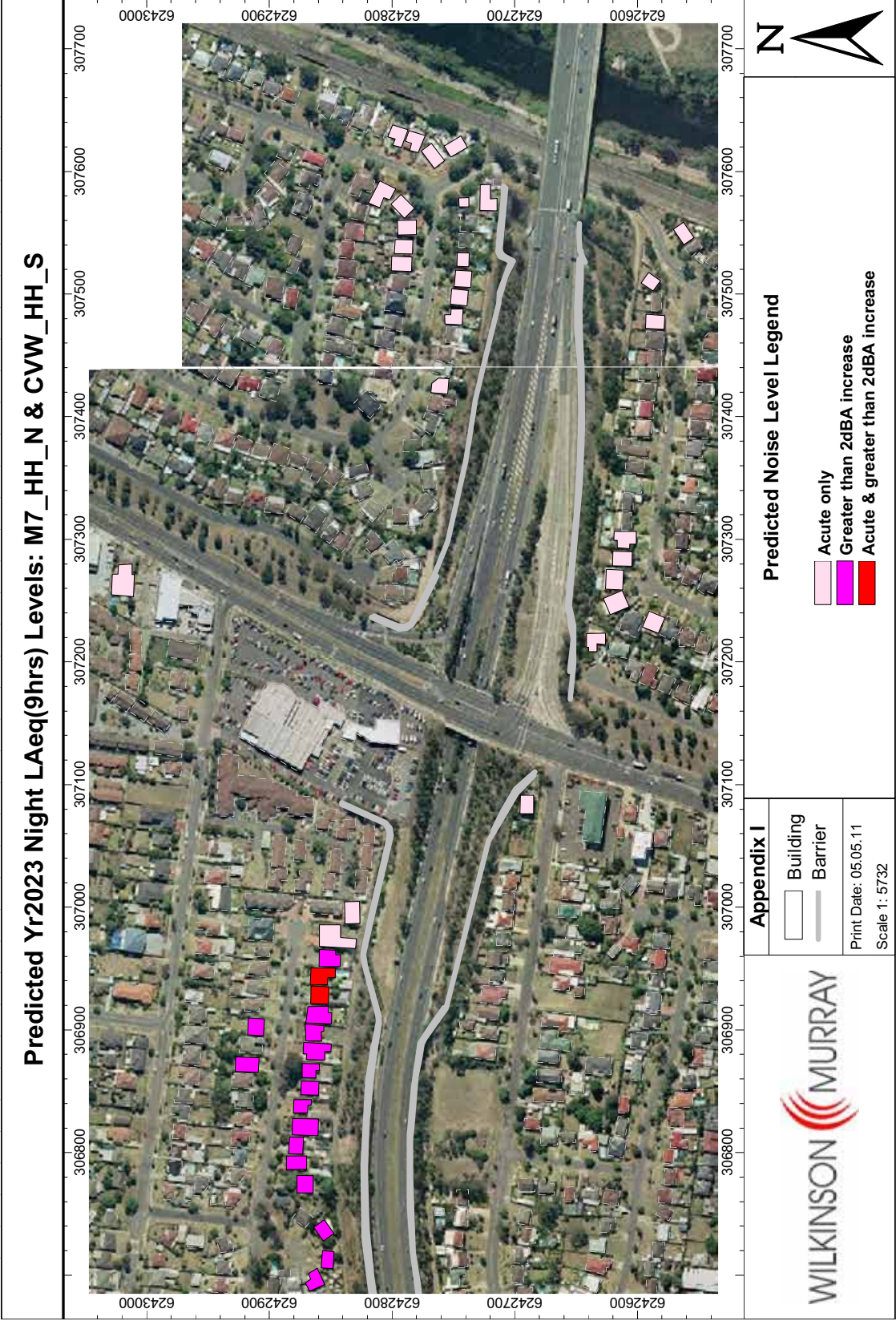
	Building
	Barrier

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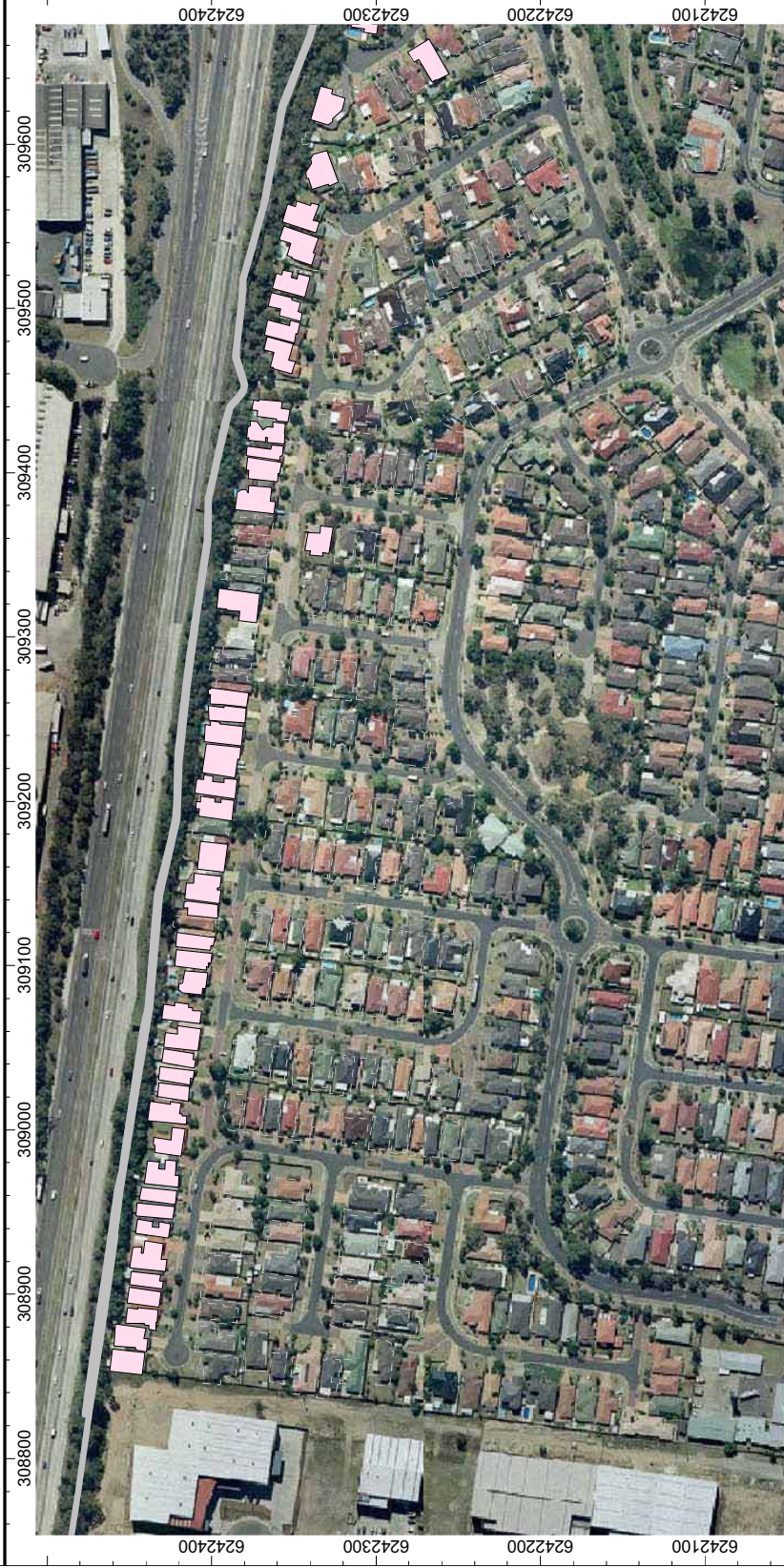
Wilkinson Murray

Predicted Noise Level Legend

- Acute only
- Greater than 2dBA increase
- Acute & greater than 2dBA increase



Predicted Yr2023 Night LAeq(9hrs) Levels: MA_HLD_S



Predicted Noise Level Legend

- Acute only
- Greater than 2dBA increase
- Acute & greater than 2dBA increase

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This aerial map shows a residential area with a road network. A specific road segment is highlighted in pink, indicating the location of the 'New Road' project. The map includes a coordinate grid with UTM Easting (309700 to 310800) and UTM Northing (6242000 to 6242400) values.

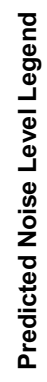


Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

Building
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This aerial map shows a residential neighborhood with a multi-lane highway running vertically on the left side. A series of buildings are highlighted with colored outlines: a red building at the bottom left, a long row of red buildings in the center, and several magenta buildings scattered throughout the upper and right portions of the map. The map includes a coordinate grid with values ranging from 311050 to 311750 on the horizontal axis and 6241950 to 6241990 on the vertical axis.



- Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

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Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

Building
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Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

Building
Barrier

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Scale 1: 5732





Predicted Noise Level Legend

- Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

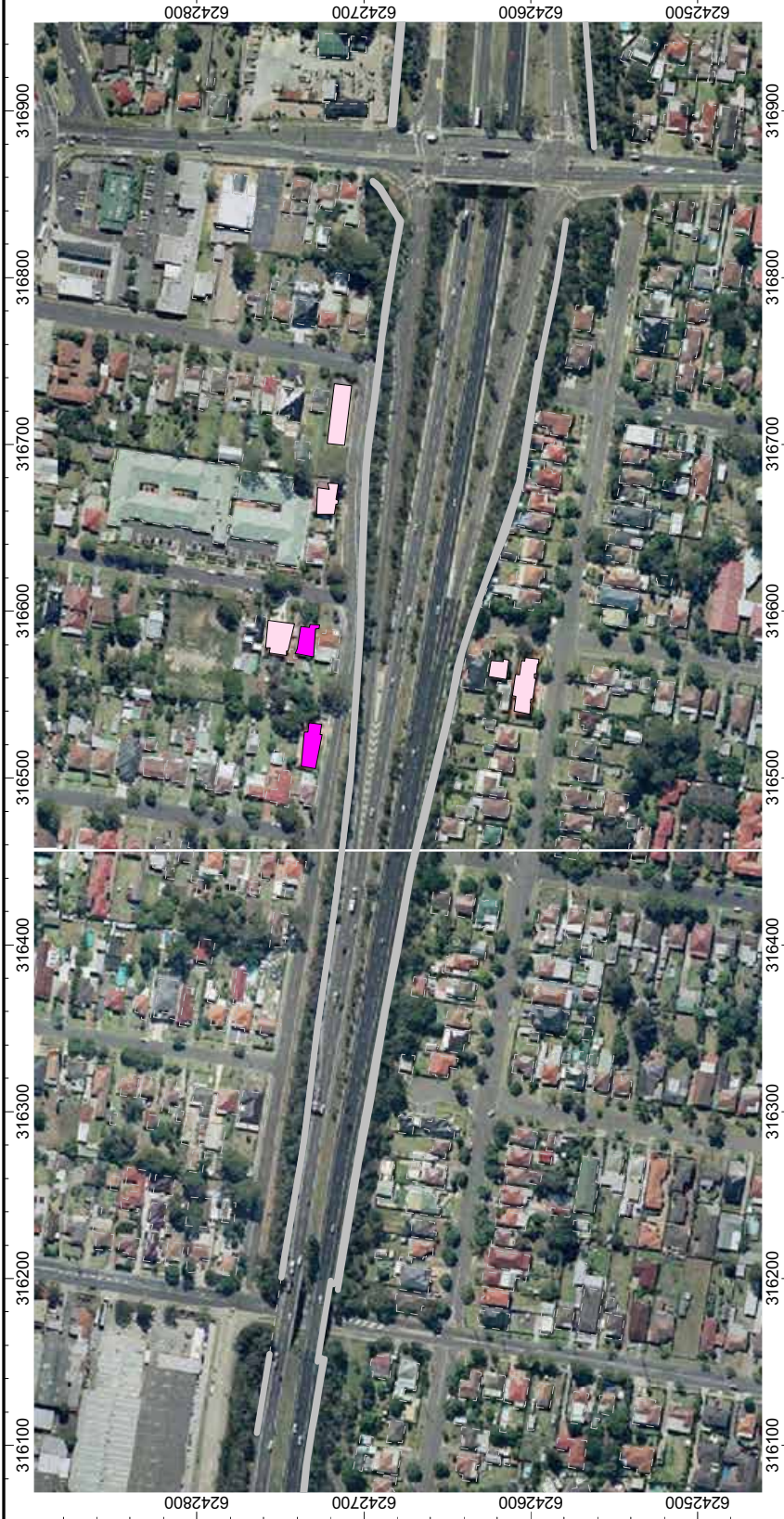
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Predicted Yr2023 Night LAeq(9hrs) Levels: QS_GA_N & HR_FR_S





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Building
Barrier

Print Date: 09.05.11
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Predicted Noise Level Legend

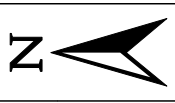
 Acute only

 Greater than 2dBA increase

 Acute & greater than 2dBA increase



An aerial photograph of a residential area with a railway line running vertically through the center. The map is overlaid with a grid of coordinates. The horizontal axis (top and bottom) ranges from 316900 to 317900 in increments of 100. The vertical axis (left and right) ranges from 6242900 to 6242600 in increments of 100. Three properties are highlighted with pink rectangles: one at approximately (317300, 6242650), and two others at approximately (317850, 6242700) and (317850, 6242750). The area is densely populated with houses, some with red roofs, and there are several large industrial or commercial buildings on the left side. A road runs horizontally across the middle of the image, intersecting the railway line.



Predicted Noise Level Legend

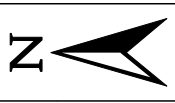
- Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

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Predicted Noise Level Legend

- Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

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Print Date: 05.05.11
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An aerial photograph of a residential neighborhood. A wide, multi-lane road runs vertically through the center of the image. To the left of the road, there are several large, rectangular buildings with flat roofs, possibly industrial or commercial. To the right of the road, there is a dense residential area with many small houses and houses with red roofs. A large, irregularly shaped green field is located to the left of the road, near the bottom. Several buildings are highlighted with red outlines: a large house on the right side of the road, a smaller house below it, and a cluster of houses on the left side of the road. The map includes a coordinate grid with labels at the top and bottom. The top labels are 6242200, 6242300, 6242400, 6242500, and 6242600. The bottom labels are 320600, 320700, 320800, 320900, 321000, 321100, 321200, 321300, 321400, 321500, and 321600.



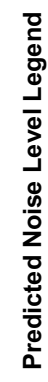
Acute only
Greater than 2dBA increase
Acute & greater than 2dBA increase

Building
Barrier

Print Date: 05.05.11
Scale 1: 5732



An aerial photograph of a residential neighborhood. A wide, multi-lane road runs vertically through the center of the image. On either side of the road are rows of houses with red-tiled roofs. Several properties are highlighted with pink rectangular outlines. To the left of the road, there is a large green area with two tennis courts. The map is overlaid with a grid of coordinates. The vertical axis on the left is labeled from 321400 to 322300 in increments of 100. The horizontal axis at the top is labeled from 6242200 to 6242600 in increments of 100. The horizontal axis at the bottom is labeled from 6242200 to 6242600 in increments of 100. The vertical axis on the right is labeled from 321400 to 322300 in increments of 100.



Building
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APPENDIX J

COMPARISON OF SEPTEMBER 2010 FINDINGS WITH REVISED FINDINGS

As a result of comments received during exhibition of the September 2010 noise report, further detailed investigations have been undertaken. Changes to the noise model and assumptions were made prior to the completion of the revised report (May 2011).

The changes implemented to the model are very small and these have resulted in only very small changes to the predicted noise levels. However, these small changes have resulted in a significant change to the number of residences affected in the future design year of 2023 both with existing barriers and with new / augmented barriers.

Table G-1 shows a comparison of the number of residences affected in the two reports above the acute criterion or above the allowance criteria or both.

Table G-1 Comparison of Number of Residences Affected above the Acute Level or the Allowance Level

2023 Scenario	September 2010	May 2011
Future design – existing barriers	286	944
Future design – new / augmented barriers	180	322

APPENDIX K

CONSTRUCTION NOISE EMISSION



**Predicted Construction Noise Levels, L_{Aeq}: King Georges Road to Belmore Road
(Chainage 8880 to 10650)**

NCA	Period	Ranking / Activity	Construction Noise			Sleep	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Management			Disturb.				
			Level, L _{Aeq} ,15min			L _{Amax,1min}				
			Day	Eve	Night	Criteria				
BR_KGR_N	Day	(1) Earthworks	67				57-69	Marginal		
		(2) Clearing & grubbing	67				56-68	Marginal		
		(3) Concrete works	67				55-67	Nil		
		(3) Drainage works	67				55-67	Nil		
		(6) Noise walls construction	67				51-63	Nil		
		(6) Sedimentation basins works	67				51-63	Nil		
		(11) Landscaping & vegetation	67	-			36-48	Nil		
	Eve	(3) Concrete works		61			55-67	> 5dB		
		(3) Mill and re-sheet		61			55-67	> 5dB		
		(5) Signs installation		61			52-64	> 2dB		
		(8) Removal of wire rope barrier		61			47-59	Nil		
		(10) Temporary safety barriers		61			42-54	Nil		
		(12) Removal of existing linemarking		61			35-47	Nil		
		(13) Linemarking		61			32-44	Nil		
(14) Traffic control		61			27-39	Nil				
Night	(3) Concrete works			50	60	55-67	> 15dB	56-68	> 5dB	
	(3) Mill and re-sheet			50	60	55-67	> 15dB	59-71	> 10dB	
	(5) Signs installation			50	60	52-64	> 10dB	54-66	> 5dB	
	(8) Removal of wire rope barrier			50	60	47-59	> 5dB	51-63	> 2dB	
	(10) Temporary safety barriers			50	60	42-54	> 2dB	51-63	> 2dB	
	(12) Removal of existing linemarking			50	60	35-47	Nil	41-53	Nil	
	(13) Linemarking			50	60	32-44	Nil	35-47	Nil	
	(14) Traffic control			50	60	27-39	Nil	35-47	Nil	
BR_KGR_S	Day	(1) Earthworks	60				55-70	> 5dB		
		(2) Clearing & grubbing	60				54-69	> 5dB		
		(3) Concrete works	60				53-68	> 5dB		
		(3) Drainage works	60				53-68	> 5dB		
		(6) Noise walls construction	60				49-64	> 2dB		
		(6) Sedimentation basins works	60				49-64	> 2dB		
		(11) Landscaping & vegetation	60				34-49	Nil		
	Eve	(3) Concrete works		55			53-68	> 10dB		
		(3) Mill and re-sheet		55			53-68	> 10dB		
		(5) Signs installation		55			50-65	> 5dB		
		(8) Removal of wire rope barrier		55			45-60	> 2dB		
		(10) Temporary safety barriers		55			40-55	Nil		
		(12) Removal of existing linemarking		55			33-48	> 5dB		
(13) Linemarking		55			30-45	Nil				

NCA	Period	Ranking / Activity	Construction Noise			Sleep	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Management			Disturb.				
			Level, L _{Aeq,15min}			L _{Amax,1min}				
			Day	Eve	Night	Criteria				
		(14) Traffic control		55			25-40	Nil		
	Night	(3) Concrete works			44	54	53-68	> 15dB	54-69	> 10dB
		(3) Mill and re-sheet			44	54	53-68	> 15dB	57-72	> 15dB
		(5) Signs installation			44	54	50-65	> 15dB	52-67	> 10dB
		(8) Removal of wire rope barrier			44	54	45-60	> 15dB	49-64	> 5dB
		(10) Temporary safety barriers			44	54	40-55	> 10dB	49-64	> 5dB
		(12) Removal of existing linemarking			44	54	33-48	> 2dB	39-54	Nil
		(13) Linemarking			44	54	30-45	Nil	33-48	Nil
		(14) Traffic control			44	54	25-40	Nil	33-48	Nil

Note: Exceedances up to 2dBA are termed “marginal”. Other exceedances thereafter are summarised in 5dB exceedance steps; i.e >5dB, >10dB, >15dB etc.

**Predicted Construction Noise Levels, L_{Aeq} : Belmore Road to Fairford Road
(Chainage 10650 to 12380)**

NCA	Period	Ranking / Activity	Construction Noise Management				Sleep	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Level, L _{Aeq,15min}				Disturb.				
			Day	Eve	Night			L _{Amax,1min}	Criteria		
FR_BR_N	Day	(1) Earthworks	60					58-66	> 5dB		
		(2) Clearing & grubbing	60					57-65	> 2dB		
		(3) Concrete works	60					56-64	> 2dB		
		(3) Drainage works	60					56-64	> 2dB		
		(6) Noise walls construction	60					52-60	Nil		
		(6) Sedimentation basins works	60					52-60	Nil		
		(11) Landscaping & vegetation	60					37-45	Nil		
	Eve	(3) Concrete works		56				56-64	> 5dB		
		(3) Mill and re-sheet		56				56-64	> 5dB		
		(5) Signs installation		56				53-61	> 2dB		
		(8) Removal of wire rope barrier		56				48-56	Nil		
		(10) Temporary safety barriers		56				43-51	Nil		
		(12) Removal of existing linemarking		56				36-44	Nil		
		(13) Linemarking		56				33-41	Nil		
		(14) Traffic control		56				28-36	Nil		
	Night	(3) Concrete works			49	59		56-64	> 10dB	57-65	> 5dB
		(3) Mill and re-sheet			49	59		56-64	> 10dB	60-68	> 5dB
		(5) Signs installation			49	59		53-61	> 10dB	55-63	> 2dB
		(8) Removal of wire rope barrier			49	59		48-56	> 5dB	52-60	Marginal
		(10) Temporary safety barriers			49	59		43-51	Marginal	52-60	Marginal
		(12) Removal of existing linemarking			49	59		36-44	Nil	42-50	Nil
		(13) Linemarking			49	59		33-41	Nil	36-44	Nil
		(14) Traffic control			49	59		28-36	Nil	36-44	Nil

Note: Exceedances up to 2dBA are termed "marginal". Other exceedances thereafter are summarised in 5dB exceedance steps; i.e >5dB, >10dB, >15dB etc

**Predicted Construction Noise Levels, L_{Aeq} : Fairford Road to The River Road
(Chainage 12380 to 13980)**

NCA	Period	Ranking / Activity	Construction Noise Management			Sleep Disturb.	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Level, L _{Aeq,15min}	L _{Amax,1min}	Criteria					
Day	Eve	Night								
QS_GA_N	Day	(1) Earthworks	64				54-68	> 2dB		
		(2) Clearing & grubbing	64				53-67	> 2dB		
		(3) Concrete works	64				52-66	Marginal		
		(3) Drainage works	64				52-66	Marginal		
		(4) Pavement construction	64				51-65	Marginal		
		(6) Noise walls construction	64				48-62	Nil		
		(6) Sedimentation basins works	64				48-62	Nil		
	Eve	(3) Concrete works		57			52-66	> 5dB		
		(3) Paving		57			52-66	> 5dB		
		(3) Mill and re-sheet		57			52-66	> 5dB		
		(5) Signs installation		57			49-63	> 5dB		
		(5) Saw Cutting		57			49-63	> 5dB		
		(8) Removal of wire rope barrier		57			44-58	Marginal		
		(10) Temporary safety barriers		57			39-53	Nil		
		(12) Removal of existing linemarking		57			32-46	Nil		
		(13) Linemarking		57			29-43	Nil		
		(14) Traffic control		57			24-38	Nil		
	Night	(3) Concrete works			44	54	52-66	> 15dB	53-67	> 10dB
		(3) Paving			44	54	52-66	> 15dB	56-70	> 15dB
		(3) Mill and re-sheet			44	54	52-66	> 15dB	56-70	> 15dB
		(5) Signs installation			44	54	49-63	> 15dB	51-65	> 10dB
		(5) Saw Cutting			44	54	49-63	> 15dB	53-67	> 10dB
		(8) Removal of wire rope barrier			44	54	44-58	> 10dB	48-62	> 5dB
		(10) Temporary safety barriers			44	54	39-53	> 5dB	48-62	> 5dB
		(12) Removal of existing linemarking			44	54	32-46	Marginal	38-52	Nil
		(13) Linemarking			44	54	29-43	Nil	32-46	Nil
		(14) Traffic control			44	54	24-38	Nil	32-46	Nil
HR_FR_S	Day	(1) Earthworks	62				59-74	> 10dB		
		(2) Clearing & grubbing	62				58-73	> 10dB		
		(3) Concrete works	62				57-72	> 5dB		
		(3) Drainage works	62				57-72	> 5dB		
		(4) Pavement construction	62				56-71	> 5dB		
		(6) Noise walls construction	62				53-68	> 5dB		
		(6) Sedimentation basins works	62				53-68	> 5dB		
		(11) Landscaping & vegetation	62				38-53	Nil		

NCA	Period	Ranking / Activity	Construction Noise Management			Sleep Disturb.	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Level, L _{Aeq,15min}			L _{Amax,1min}				
						Criteria				
			Day	Eve	Night					
Eve		(3) Concrete works		56			57-72	> 15dB		
		(3) Paving		56			57-72	> 15dB		
		(3) Mill and re-sheet		56			57-72	> 15dB		
		(5) Signs installation		56			54-69	> 10dB		
		(5) Saw Cutting		56			54-69	> 10dB		
		(8) Removal of wire rope barrier		56			49-64	> 5dB		
		(10) Temporary safety barriers		56			44-59	> 2dB		
Night		(3) Concrete works			44	54	57-72	> 15dB	58-73	> 15dB
		(3) Paving			44	54	57-72	> 15dB	61-76	> 15dB
		(3) Mill and re-sheet			44	54	57-72	> 15dB	61-76	>15dB
		(5) Signs installation			44	54	54-69	> 15dB	56-71	> 15dB
		(5) Saw Cutting			44	54	54-69	> 15dB	58-73	> 15dB
		(8) Removal of wire rope barrier			44	54	49-64	> 15dB	53-68	> 10dB
		(10) Temporary safety barriers			44	54	44-59	> 10dB	53-68	> 10dB
		(12) Removal of existing linemarking			44	54	37-52	> 5dB	43-58	> 2dB
		(13) Linemarking			44	54	34-49	> 2dB	37-52	Nil
		(14) Traffic control			44	54	29-44	Nil	37-52	Nil

Note: Exceedances up to 2dBA are termed "marginal". Other exceedances thereafter are summarised in 5dB exceedance steps; i.e >5dB, >10dB, >15dB etc.

**Predicted Construction Noise Levels, L_{Aeq} : The River Road to Henry Lawson Drive
(Chainage 13980 to 17430)**

NCA	Period	Ranking / Activity	Construction Noise			Sleep	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Management			Disturb.				
			Level, L _{Aeq,15min}			L _{Amax,1min}				
			Day	Eve	Night	Criteria				
HR_FR_S	Day	(1) Earthworks	62				59-74	> 10dB		
		(2) Clearing & grubbing	62				58-73	> 10dB		
		(3) Concrete works	62				57-72	> 5dB		
		(3) Drainage works	62				57-72	> 5dB		
		(3) Bridge works	62				57-72	> 5dB		
		(4) Pavement construction	62				56-71	> 5dB		
		(6) Noise walls construction	62				53-68	> 5dB		
		(6) Sedimentation basins works	62				53-68	> 5dB		
		(11) Landscaping & vegetation	62				38-53	Nil		
	Eve	(3) Concrete works		56			57-72	> 15dB		
		(3) Paving		56			57-72	> 15dB		
		(3) Mill and re-sheet		56			57-72	> 15dB		
		(5) Signs installation		56			54-69	> 10dB		
		(5) Saw Cutting		56			54-69	> 10dB		
		(7) Bridge works		56			50-65	> 5dB		
		(8) Removal of wire rope barrier		56			49-64	> 5dB		
		(10) Temporary safety barriers		56			44-59	> 2dB		
		(12) Removal of existing linemarking		56			37-52	Nil		
		(13) Linemarking		56			34-49	Nil		
		(14) Traffic control		56			29-44	Nil		
	Night	(3) Concrete works			44	54	57-72	> 15dB	57-73	> 15dB
		(3) Paving			44	54	57-72	> 15dB	61-76	> 15dB
		(3) Mill and re-sheet			44	54	57-72	> 15dB	61-76	> 15dB
		(5) Signs installation			44	54	54-69	> 15dB	56-71	> 15dB
		(5) Saw Cutting			44	54	54-69	> 15dB	58-73	> 15dB
		(7) Bridge works (night)			44	54	50-65	> 15dB	51-66	> 10dB
		(8) Removal of wire rope barrier			44	54	49-64	> 15dB	53-68	> 10dB
		(10) Temporary safety barriers			44	54	44-59	> 10dB	53-68	> 10dB
		(12) Removal of existing linemarking			44	54	37-52	> 5dB	43-58	> 2dB
		(13) Linemarking			44	54	34-49	> 2dB	37-52	Nil
		(14) Traffic control			44	54	29-44	Nil	37-52	Nil

Note: Exceedances up to 2dBA are termed "marginal". Other exceedances thereafter are summarised in 5dB exceedance steps; i.e. >5dB, >10dB, >15dB etc.

**Predicted Construction Noise Levels, L_{Aeq} : Henry Lawson Drive to East of Toll Plaza Area
(Chainage 17430 to 18600)**

NCA	Period	Ranking / Activity	Construction Noise Management			Sleep Disturb.	$L_{Aeq,15min}$	Exceedance	L_{Amax}	Exceedance
			Level, $L_{Aeq,15min}$			$L_{Amax,1min}$				
			Day	Eve	Night	Criteria				
HLD_HR_N	Day	(1) Earthworks	59				54-66	> 5dB		
		(2) Clearing & grubbing	59				53-65	> 5dB		
		(3) Concrete works	59				52-64	> 2dB		
		(3) Drainage works	59				52-64	> 2dB		
		(4) Pavement construction	59				51-63	> 2dB		
		(6) Noise walls construction	59				48-60	Marginal		
		(6) Sedimentation basins works	59				48-60	Marginal		
		(11) Landscaping & vegetation	59				33-45	Nil		
	Eve	(3) Concrete works		54			52-64	> 5dB		
		(3) Paving		54			52-64	> 5dB		
		(3) Mill and re-sheet		54			52-64	> 5dB		
		(5) Signs installation		54			49-61	> 5dB		
		(5) Saw Cutting		54			49-61	> 5dB		
		(8) Removal of wire rope barrier		54			44-56	Marginal		
		(10) Temporary safety barriers		54			39-51	Nil		
		(12) Removal of existing linemarking		54			32-44	Nil		
		(13) Linemarking		54			29-41	Nil		
		(14) Traffic control		54			24-36	Nil		
	Night	(3) Concrete works			43	53	52-64	> 15dB	53-65	> 10dB
		(3) Paving			43	53	52-64	> 15dB	56-68	> 10dB
		(3) Mill and re-sheet			43	53	52-64	> 15dB	56-68	> 10dB
		(5) Signs installation			43	53	49-61	> 15dB	51-63	> 5dB
		(5) Saw Cutting			43	53	49-61	> 15dB	53-65	> 10dB
		(8) Removal of wire rope barrier			43	53	44-56	> 10dB	48-60	> 5dB
		(10) Temporary safety barriers			43	53	39-51	> 5dB	48-60	> 5dB
		(12) Removal of existing linemarking			43	53	32-44	Marginal	38-50	Nil
		(13) Linemarking			43	53	29-41	Nil	32-44	Nil
		(14) Traffic control			43	53	24-36	Nil	32-44	Nil
HLD_S	Day	(1) Earthworks	64				57-59	Nil		
		(2) Clearing & grubbing	64				56-58	Nil		
		(3) Concrete works	64				55-57	Nil		
		(3) Drainage works	64				55-57	Nil		
		(4) Pavement construction	64				54-56	Nil		
		(6) Noise walls construction	64				51-53	Nil		
		(6) Sedimentation basins works	64				51-53	Nil		
		(11) Landscaping & vegetation	64				36-38	Nil		

NCA	Period	Ranking/Activity	Construction Noise			Sleep	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Management			Disturb.				
			Level, L _{Aeq,15min}			L _{Amax,1min}				
			Day	Eve	Night	Criteria				
Eve		(3) Concrete works		55			55-57	Marginal		
		(3) Paving		55			55-57	Marginal		
		(3) Mill and re-sheet		55			55-57	Marginal		
		(5) Signs installation		55			52-54	Nil		
		(5) Saw Cutting		55			52-54	Nil		
		(8) Removal of wire rope barrier		55			47-49	Nil		
		(10) Temporary safety barriers		55			42-44	Nil		
		(12) Removal of existing linemarking		55			35-37	Nil		
		(13) Linemarking		55			32-34	Nil		
		(14) Traffic control		55			27-29	Nil		
Night		(3) Concrete works			43	53	55-57	> 10dB	56-58	> 2dB
		(3) Paving			43	53	55-57	> 10dB	59-61	> 5dB
		(3) Mill and re-sheet			43	53	55-57	> 10dB	59-61	> 5dB
		(5) Signs installation			43	53	52-54	> 10dB	54-56	> 2dB
		(5) Saw Cutting			43	53	52-54	> 10dB	56-58	> 2dB
		(8) Removal of wire rope barrier			43	53	47-49	> 5dB	51-53	Nil
		(10) Temporary safety barriers			43	53	42-44	Marginal	51-53	Nil
		(12) Removal of existing linemarking			43	53	35-37	Nil	41-43	> 5dB
		(13) Linemarking			43	53	32-34	Nil	35-37	Nil
		(14) Traffic control			43	53	27-29	Nil	35-37	Nil

Note: Exceedances up to 2dBA are termed "marginal". Other exceedances thereafter are summarised in 5dB exceedance steps; i.e >5dB, >10dB, >15dB etc.

**Predicted Construction Noise Levels, L_{Aeq} : Toll Plaza Area
(Chainage 18600 to 19860)**

NCA	Period	Ranking / Activity	Construction Noise			Sleep	$L_{Aeq,15min}$	Exceedance	L_{Amax}	Exceedance
			Management			Disturb.				
			Level, $L_{Aeq,15min}$			$L_{Amax,1min}$				
			Day	Eve	Night	Criteria				
MA_HLD_S	Day	(3) Concrete works	65				50-67	Marginal		
		(3) Drainage works	65				50-67	Marginal		
		(3) OMCS works	65				50-67	Marginal		
		(6) Noise walls construction	65				46-63	Nil		
		(6) Sedimentation basins works	65				46-63	Nil		
	Eve	(3) Concrete works		58			50-67	> 5dB		
		(3) Mill and re-sheet		58			50-67	> 5dB		
		(5) Signs installation		58			47-64	> 5dB		
		(10) Temporary safety barriers		58			37-54	Nil		
		(12) Removal of existing linemarking		58			30-47	Nil		
		(13) Linemarking		58			27-44	Nil		
		(14) Traffic control		58			22-39	Nil		
	Night	(3) Concrete works			44	54	50-67	> 15dB	51-68	> 10dB
		(3) Mill and re-sheet			44	54	50-67	> 15dB	54-71	> 15dB
(5) Signs installation				44	54	47-64	> 15dB	49-66	> 10dB	
(10) Temporary safety barriers				44	54	37-54	> 5dB	46-63	> 5dB	
(12) Removal of existing linemarking				44	54	30-47	> 2dB	36-53	Nil	
(13) Linemarking				44	54	27-44	Nil	30-47	Nil	
(14) Traffic control				44	54	22-39	Nil	30-47	Nil	

Note: Exceedances up to 2dBA are termed "marginal". Other exceedances thereafter are summarised in 5dB exceedance steps; i.e >5dB, >10dB, >15dB etc.

Predicted Construction Noise Levels, L_{Aeq} : West of Toll Plaza Area to Heathcote Road (Chainage 19860 to 21300)

NCA	Period	Ranking / Activity	Construction Noise Management Level,			Sleep Disturb.	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance		
			L _{Aeq,15min}			L _{Amax,1min}						
			Day	Eve	Night	Criteria						
HR_HLD_N	Day	(1) Earthworks	62					51-62	Nil			
		(2) Clearing & grubbing	62					50-61	Nil			
		(3) Bridge works	62					49-60	Nil			
		(3) Concrete works	62					49-60	Nil			
		(3) Drainage works	62					49-60	Nil			
		(3) OMCS works	62					49-60	Nil			
		(4) Pavement construction	62					48-59	Nil			
		(6) Noise walls construction	62					45-56	Nil			
		(6) Sedimentation basins works	62					45-56	Nil			
		(11) Landscaping & vegetation	62					30-41	Nil			
	Eve	(3) Concrete works			54				49-60	> 5dB		
		(3) Paving			54				49-60	> 5dB		
		(3) Mill and re-sheet			54				49-60	> 5dB		
		(5) Signs installation			54				46-57	> 2dB		
		(5) Saw Cutting			54				46-57	> 2dB		
		(7) Bridge works			54				42-53	Nil		
		(10) Temporary safety barriers			54				36-47	Nil		
		(12) Removal of existing linemarking			54				29-40	Nil		
		(13) Linemarking			54				26-37	Nil		
		(14) Traffic control			54				21-32	Nil		
	Night	(3) Concrete works				43	53		49-60	> 10dB	50-61	> 5dB
		(3) Paving				43	53		49-60	> 10dB	53-64	> 5dB
		(3) Mill and re-sheet				43	53		49-60	> 10dB	53-64	> 5dB
		(5) Signs installation				43	53		46-57	> 10dB	48-59	> 2dB
		(5) Saw Cutting				43	53		46-57	> 10dB	50-61	> 2dB
		(7) Bridge works (night)				43	53		42-53	> 10dB	43-54	Nil
		(10) Temporary safety barriers				43	53		36-47	Marginal	45-56	Nil
		(12) Removal of existing linemarking				43	53		29-40	Nil	35-46	Nil
		(13) Linemarking				43	53		26-37	Nil	29-40	Nil
		(14) Traffic control				43	53		21-32	Nil	29-40	Nil
MA_HLD_S	Day	(1) Earthworks	65					52-69	> 2dB			
		(2) Clearing & grubbing	65					51-68	> 2dB			
		(3) Bridge works	65					50-67	Marginal			
		(3) Concrete works	65					50-67	Marginal			

NCA	Period	Ranking / Activity	Construction Noise Management Level,			Sleep Disturb.	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
						L _{Amax,1min}				
			Day	Eve	Night	Criteria				
		(3) Drainage works	65				50-67	Marginal		
		(3) OMCS works	65				50-67	Marginal		
		(4) Pavement construction	65				49-66	Marginal		
		(6) Noise walls construction	65				46-63	Nil		
		(6) Sedimentation basins works	65				46-63	Nil		
		(11) Landscaping & vegetation	65				31-48	Nil		
	Eve	(3) Concrete works		58			50-67	> 5dB		
		(3) Paving		58			50-67	> 5dB		
		(3) Mill and re-sheet		58			50-67	> 5dB		
		(5) Signs installation		58			47-64	> 5dB		
		(5) Saw Cutting		58			47-64	> 5dB		
		(7) Bridge works		58			43-60	Marginal		
		(10) Temporary safety barriers		58			37-54	Nil		
		(12) Removal of existing linemarking		58			30-47	Nil		
		(13) Linemarking		58			27-44	Nil		
		(14) Traffic control		58			22-39	Nil		
	Night	(3) Concrete works			44	54	50-67	> 15dB	51-68	> 10dB
		(3) Paving			44	54	50-67	> 15dB	51-68	> 10dB
		(3) Mill and re-sheet			44	54	50-67	> 15dB	54-71	> 15dB
		(5) Signs installation			44	54	47-64	> 15dB	51-68	> 10dB
		(5) Saw Cutting			44	54	47-64	> 15dB	49-66	> 10dB
		(7) Bridge works			44	54	43-60	> 15dB	47-65	> 10dB
		(10) Temporary safety barriers			44	54	37-54	> 5dB	51-68	> 10dB
		(12) Removal of existing linemarking			44	54	30-47	> 2dB	46-63	> 5dB
		(13) Linemarking			44	54	27-44	Nil	36-53	Nil
		(14) Traffic control			44	54	22-39	Nil	30-47	Nil

Note: Exceedances up to 2dBA are termed "marginal". Other exceedances thereafter are summarised in 5dB exceedance steps; i.e >5dB, >10dB, >15dB etc.

**Predicted Construction Noise Levels, L_{Aeq} : Heathcote Road to East of Moorebank Avenue
(Chainage 21300 to 22585)**

NCA	Period	Ranking / Activity	Construction Noise Management			Sleep Disturb.	L _{Aeq,15min}	Exceedance		L _{Amax}	Exceedance	
			Level, L _{Aeq,15min}			L _{Amax,1min}						
			Day	Eve	Night	Criteria						
HR_HLD_N	Day	(1) Earthworks	62				51-62	Nil				
		(2) Clearing & grubbing	62				50-61	Nil				
		(3) Concrete works	62				49-60	Nil				
		(3) Drainage works	62				49-60	Nil				
		(4) Pavement construction	62				48-59	Nil				
		(6) Noise walls construction	62				45-56	Nil				
		(6) Sedimentation basins works	62				45-56	Nil				
		(11) Landscaping & vegetation	62				30-41	Nil				
	Eve	(3) Concrete works		54			49-60	> 5dB				
		(3) Paving		54			49-60	> 5dB				
		(3) Mill and re-sheet		54			49-60	> 5dB				
		(5) Signs installation		54			46-57	> 2dB				
		(5) Saw Cutting		54			46-57	> 2dB				
		(10) Temporary safety barriers		54			36-47	Nil				
		(12) Removal of existing linemarking		54			29-40	Nil				
		(13) Linemarking		54			26-37	Nil				
	(14) Traffic control		54			21-32	Nil					
Night	(3) Concrete works			46	56	49-60	> 10dB	50-61	> 2dB			
	(3) Paving			46	56	49-60	> 10dB	53-64	> 5dB			
	(3) Mill and re-sheet			46	56	49-60	> 10dB	53-64	> 5dB			
	(5) Signs installation			46	56	46-57	> 10dB	48-59	> 2dB			
	(5) Saw Cutting			46	56	46-57	> 10dB	50-61	> 2dB			
	(10) Temporary safety barriers			46	56	36-47	Marginal	45-56	Nil			
	(12) Removal of existing linemarking			46	56	29-40	Nil	35-46	Nil			
	(13) Linemarking			46	56	26-37	Nil	29-40	Nil			
	(14) Traffic control			46	56	21-32	Nil	29-40	Nil			
MA_HLD_S	Day	(1) Earthworks	65				52-69	> 2dB				
		(2) Clearing & grubbing	65				51-68	> 2dB				
		(3) Bridge works	65				50-67	Marginal				
		(3) Concrete works	65				50-67	Marginal				
		(3) Drainage works	65				50-67	Marginal				
		(4) Pavement construction	65				49-66	Marginal				
		(6) Noise walls construction	65				46-63	Nil				
		(6) Sedimentation basins works	65				46-63	Nil				
		(11) Landscaping & vegetation	65				31-48	Nil				

NCA	Period	Ranking / Activity	Construction Noise Management			Sleep	L _{Aeq,15min}	Exceedance		L _{Amax}	Exceedance
						Disturb.					
			Level, L _{Aeq,15min}			L _{Amax,1min}					
			Day	Eve	Night	Criteria					
Eve		(3) Concrete works		58			50-67	> 5dB			
		(3) Paving		58			50-67	> 5dB			
		(3) Mill and re-sheet		58			50-67	> 5dB			
		(5) Signs installation		58			47-64	> 5dB			
		(5) Saw Cutting		58			47-64	> 5dB			
		(7) Bridge works		58			43-60	Marginal			
		(10) Temporary safety barriers		58			37-54	Nil			
		(12) Removal of existing linemarking		58			30-47	Nil			
		(13) Linemarking		58			27-44	Nil			
		(14) Traffic control		58			22-39	Nil			
Night		(3) Concrete works			44	54	50-67	> 15dB	53-70	> 15dB	
		(3) Paving			44	54	50-67	> 15dB	56-73	> 15dB	
		(3) Mill and re-sheet			44	54	50-67	> 15dB	56-73	> 15dB	
		(5) Signs installation			44	54	47-64	> 15dB	49-66	> 10dB	
		(5) Saw Cutting			44	54	47-64	> 15dB	51-68	> 10dB	
		(7) Bridge works (night)			44	54	43-60	> 15dB	46-63	> 5dB	
		(10) Temporary safety barriers			44	54	37-54	> 5dB	46-63	> 5dB	
		(12) Removal of existing linemarking			44	54	30-47	> 2dB	36-53	Nil	
		(13) Linemarking			44	54	27-44	Nil	30-47	Nil	
		(14) Traffic control			44	54	22-39	Nil	30-47	Nil	

Note: Exceedances up to 2dBA are shown as "marginal". Thereafter, exceedances are shown in 5dB exceedance steps; i.e >5dB, >10dB, >15dB etc.

Predicted Construction Noise Levels, L_{Aeq} : East of Moorebank Avenue to East of Hume Highway (Chainage 22585 to 23585)

NCA	Period	Ranking / Activity	Construction Noise Management			Sleep Disturb.	$L_{Aeq,15min}$	Exceedance	L_{Amax}	Exceedance
			Level, $L_{Aeq,15min}$			$L_{Amax,1min}$				
			Day	Eve	Night	Criteria				
M7_HH_N	Day	(1) Earthworks	64				52-69	> 2dB		
		(2) Clearing & grubbing	64				51-68	> 2dB		
		(3) Concrete works	64				50-67	> 2dB		
		(3) Drainage works	64				50-67	> 2dB		
		(4) Pavement construction	64				49-66	> 2dB		
		(6) Noise walls construction	64				46-63	Nil		
		(6) Sedimentation basins works	64				46-63	Nil		
		(11) Landscaping & vegetation	64				31-48	Nil		
	Eve	(3) Concrete works		55			50-67	> 10dB		
		(3) Paving		55			50-67	> 10dB		
		(3) Mill and re-sheet		55			50-67	> 10dB		
		(5) Signs installation		55			47-64	> 5dB		
		(5) Saw Cutting		55			47-64	> 5dB		
		(10) Temporary safety barriers		55			37-54	Nil		
		(12) Removal of existing linemarking		55			30-47	Nil		
		(13) Linemarking		55			27-44	Nil		
		(14) Traffic control		55			22-39	Nil		
	Night	(3) Concrete works			43	53	50-67	> 15dB	51-68	> 10dB
		(3) Paving			43	53	50-67	> 15dB	54-71	> 15dB
		(3) Mill and re-sheet			43	53	50-67	> 15dB	54-71	> 15dB
		(5) Signs installation			43	53	47-64	> 15dB	49-66	> 10dB
		(5) Saw Cutting			43	53	47-64	> 15dB	51-68	> 10dB
		(10) Temporary safety barriers			43	53	37-54	> 10dB	46-63	> 5dB
		(12) Removal of existing linemarking			43	53	30-47	> 2dB	36-53	Nil
		(13) Linemarking			43	53	27-44	Marginal	30-47	Nil
		(14) Traffic control			43	53	22-39	Nil	30-47	Nil
CVW_HH_S	Day	(1) Earthworks	62				51-68	> 5dB		
		(2) Clearing & grubbing	62				50-67	> 2dB		
		(3) Bridge works	62				49-66	> 2dB		
		(3) Concrete works	62				49-66	> 2dB		
		(3) Drainage works	62				49-66	> 2dB		
		(4) Pavement construction	62				48-65	> 2dB		
		(6) Noise walls construction	62				45-62	Nil		
		(6) Sedimentation basins works	62				45-62	Nil		
		(11) Landscaping & vegetation	62				30-47	Nil		

NCA	Period	Ranking / Activity	Construction Noise			Sleep	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Management			Disturb.				
			Level, L _{Aeq,15min}			L _{Amax,1min}				
			Day	Eve	Night	Criteria				
Eve		(3) Concrete works		54			49-66	> 10dB		
		(3) Paving		54			49-66	> 10dB		
		(3) Mill and re-sheet		54			49-66	> 10dB		
		(5) Signs installation		54			46-63	> 5dB		
		(5) Saw Cutting		54			46-63	> 5dB		
		(7) Bridge works		54			42-61	> 5dB		
		(10) Temporary safety barriers		54			36-53	Nil		
		(12) Removal of existing linemarking		54			29-46	Nil		
		(13) Linemarking		54			26-43	Nil		
		(14) Traffic control		54			21-38	Nil		
Night		(3) Concrete works			43	53	49-66	> 15dB	50-67	> 10dB
		(3) Paving			43	53	49-66	> 15dB	53-70	> 15dB
		(3) Mill and re-sheet			43	53	49-66	> 15dB	53-70	> 15dB
		(5) Signs installation			43	53	46-63	> 15dB	48-65	> 10dB
		(5) Saw Cutting			43	53	46-63	> 15dB	50-67	> 10dB
		(7) Bridge works (night)			43	53	42-61	> 15dB	43-60	> 5dB
		(10) Temporary safety barriers			43	53	36-53	> 5dB	45-62	> 5dB
		(12) Removal of existing linemarking			43	53	29-46	> 2dB	35-52	Nil
		(13) Linemarking			43	53	26-43	Nil	29-46	Nil
		(14) Traffic control			43	53	21-38	Nil	29-46	Nil

Note: Exceedances up to 2dBA are termed "marginal". Other exceedances thereafter are summarised in 5dB exceedance steps; i.e. >5dB, >10dB, >15dB etc.

Predicted Construction Noise Levels, L_{Aeq}: East of Hume Highway to Camden Valley Way (Chainage 23585 to 28290)

NCA	Period	Ranking / Activity	Construction Noise			Sleep		Exceedance	
			Management			Disturb.	L _{Aeq,15min}	L _{Amax}	Exceedance
			Level, L _{Aeq,15min}			L _{Amax,1min}			
			Day	Eve	Night	Criteria			
M7_HH_N	Day	(1) Earthworks	64				52-69	> 2dB	
		(2) Clearing & grubbing	64				51-68	> 2dB	
		(3) Concrete works	64				50-67	> 2dB	
		(3) Drainage works	64				50-67	> 2dB	
		(3) Bridge works	64				50-67	> 2dB	
		(4) Pavement construction	64				49-66	Marginal	
		(6) Noise walls construction	64				46-63	Nil	
		(6) Sedimentation basins works	64				46-63	Nil	
		(11) Landscaping & vegetation	64				31-48	Nil	
	Eve	(3) Concrete works		55			50-67	> 10dB	
		(3) Paving		55			50-67	> 10dB	
		(3) Mill and re-sheet		55			50-67	> 10dB	
		(5) Signs installation		55			47-64	> 5dB	
		(5) Saw Cutting		55			47-64	> 5dB	
		(7) Bridge works		55			43-60	> 5dB	
		(10) Temporary safety barriers		55			37-54	Nil	
		(12) Removal of existing linemarking		55			30-47	Nil	
		(13) Linemarking		55			27-44	Nil	
		(14) Traffic control		55			22-39	Nil	
	Night	(3) Concrete works			43	53	50-67	> 15dB	51-68 > 10dB
		(3) Paving			43	53	50-67	> 15dB	54-71 > 15dB
		(3) Mill and re-sheet			43	53	50-67	> 15dB	54-71 > 15dB
		(5) Signs installation			43	53	47-64	> 15dB	49-66 > 10dB
		(5) Saw Cutting			43	53	47-64	> 15dB	51-68 > 10dB
		(7) Bridge works			43	53	43-60	> 15dB	44-61 > 5dB
		(10) Temporary safety barriers			43	53	37-54	> 10dB	46-63 > 5dB
		(12) Removal of existing linemarking			43	53	30-47	> 2dB	36-53 Nil
		(13) Linemarking			43	53	27-44	Marginal	30-47 Nil
		(14) Traffic control			43	53	22-39	Nil	30-47 Nil
CVW_HH_S	Day	(1) Earthworks	62				51-68	> 5dB	
		(2) Clearing & grubbing	62				50-67	> 2dB	
		(3) Bridge works	62				49-66	> 2dB	
		(3) Concrete works	62				49-66	> 2dB	
		(3) Drainage works	62				49-66	> 2dB	
		(4) Pavement construction	62				48-65	> 2dB	
		(6) Noise walls construction	62				45-62	Nil	

NCA	Period	Ranking / Activity	Construction Noise			Sleep	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Management			Disturb.				
			Level, L _{Aeq} ,15min			L _{Amax,1min}				
			Day	Eve	Night	Criteria				
CVW_M7_W		(6) Sedimentation basins works	62				45-62	Nil		
		(11) Landscaping & vegetation	62				30-47	Nil		
	Eve	(3) Concrete works		54			49-66	> 10dB		
		(3) Paving		54			49-66	> 10dB		
		(3) Mill and re-sheet		54			49-66	> 10dB		
		(5) Signs installation		54			46-63	> 5dB		
		(5) Saw Cutting		54			46-63	> 5dB		
		(7) Bridge Works		54			42-61	> 5dB		
		(10) Temporary safety barriers		54			36-53	Nil		
		(12) Removal of existing linemarking		54			29-46	Nil		
		(13) Linemarking		54			26-43	Nil		
		(14) Traffic control		54			21-38	Nil		
	Night	(3) Concrete works			43	53	49-66	> 15dB	50-67	> 10dB
		(3) Paving			43	53	49-66	> 15dB	53-70	> 15dB
		(3) Mill and re-sheet			43	53	49-66	> 15dB	53-70	> 15dB
		(5) Signs installation			43	53	46-63	> 15dB	48-65	> 10dB
		(5) Saw Cutting			43	53	46-63	> 15dB	50-67	> 10dB
		(7) Bridge works (night)			43	53	42-61	> 15dB	43-61	> 5dB
		(10) Temporary safety barriers			43	53	36-53	> 5dB	45-62	> 5dB
		(12) Removal of existing linemarking			43	53	29-46	> 2dB	35-52	Nil
		(13) Linemarking			43	53	26-43	Nil	29-46	Nil
		(14) Traffic control			43	53	21-38	Nil	29-46	Nil
	Day	(1) Earthworks	62				49-52	Nil		
		(2) Clearing & grubbing	62				48-51	Nil		
		(3) Bridge works	62				47-50	Nil		
		(3) Concrete works	62				47-50	Nil		
		(3) Drainage works	62				47-50	Nil		
		(4) Pavement construction	62				46-49	Nil		
		(6) Noise walls construction	62				43-46	Nil		
		(6) Sedimentation basins works	62				43-46	Nil		
		(11) Landscaping & vegetation	62				28-31	Nil		
		Eve	(3) Concrete works		54			47-50	Nil	
	(3) Paving			54			47-50	Nil		
	(3) Mill and re-sheet			54			47-50	Nil		
	(5) Signs installation			54			44-47	Nil		
	(5) Saw Cutting			54			44-47	Nil		
	(7) Bridge Works			54			40-43	Nil		
			(10) Temporary safety barriers		54			34-37	Nil	

NCA	Period	Ranking / Activity	Construction Noise			Sleep	L _{Aeq,15min}	Exceedance	L _{Amax}	Exceedance
			Management			Disturb.				
			Level, L _{Aeq} ,15min			L _{Amax} ,1min				
			Day	Eve	Night	Criteria				
Night		(12) Removal of existing linemarking		54			27-30	Nil		
		(13) Linemarking		54			24-27	Nil		
		(14) Traffic control		54			19-22	Nil		
		(3) Concrete works			43	53	47-50	> 5dB	51-54	Marginal 1dB
		(3) Paving			43	53	47-50	> 5dB	51-54	Marginal 1dB
		(3) Mill and re-sheet			43	53	47-50	> 5dB	51-54	Marginal 1dB
		(5) Signs installation			43	53	44-47	> 2dB	48-51	Nil
		(5) Saw Cutting			43	53	44-47	> 2dB	48-51	Nil
		(7) Bridge works (night)			43	53	40-43	Nil	41-44	Nil
		(10) Temporary safety barriers			43	53	34-37	Nil	43-46	Nil
		(12) Removal of existing linemarking			43	53	27-30	Nil	33-36	Nil
		(13) Linemarking			43	53	24-27	Nil	27-30	Nil
		(14) Traffic control			43	53	19-22	Nil	27-30	Nil

Note: Exceedances up to 2dBA are termed "marginal". Other exceedances thereafter are summarised in 5dB exceedance steps; i.e. >5dB, >10dB, >15dB etc.

Commercial/Industrial Predicted Construction Noise Levels, L_{Aeq}: King Georges Road to Belmore Road (Chainage 8880 to 10650)

NCA	Period	Ranking / Activity	External Construction Noise Management Level,		L _{Aeq,15min}	Commercial Industrial Comply (Y/N)
			L _{Aeq,15min}			
			Comm.	Indust.		
Commercial _BR_BR_N	Day	(1) Earthworks	70	75	57-69	Yes Yes
		(2) Clearing & grubbing	70	75	56-68	Yes Yes
		(3) Concrete works	70	75	55-67	Yes Yes
		(3) Drainage works	70	75	55-67	Yes Yes
		(6) Noise walls construction	70	75	51-63	Yes Yes
		(6) Sedimentation basins works	70	75	51-63	Yes Yes
		(11) Landscaping & vegetation	70	75	36-48	Yes Yes

Commercial/ Industrial Predicted Construction Noise Levels, L_{Aeq} : Fairford Road to The River Road (Chainage 12380 to 13980)

NCA	Period	Ranking / Activity	External Construction Noise Management Level, $L_{Aeq,15min}$		$L_{Aeq,15min}$	Commercial Industrial Comply (Y/N)
			$L_{Aeq,15min}$			
			Comm.	Indust.		
Commercial _GA_FR_N QS_GA_N	Day	(1) Earthworks	70	75	54-68	Yes Yes
		(2) Clearing & grubbing	70	75	53-67	Yes Yes
		(3) Concrete works	70	75	52-66	Yes Yes
		(3) Drainage works	70	75	52-66	Yes Yes
		(4) Pavement construction	70	75	51-65	Yes Yes
		(6) Noise walls construction	70	75	48-62	Yes Yes
		(6) Sedimentation basins works	70	75	48-62	Yes Yes
Commercial _HR_FR_S	Day	(1) Earthworks	70	75	59-74	No Yes
		(2) Clearing & grubbing	70	75	58-73	No Yes
		(3) Concrete works	70	75	57-72	No Yes
		(3) Drainage works	70	75	57-72	No Yes
		(4) Pavement construction	70	75	56-71	No Yes
		(6) Noise walls construction	70	75	53-68	Yes Yes
		(6) Sedimentation basins works	70	75	53-68	Yes Yes
		(11) Landscaping & vegetation	70	75	38-53	Yes Yes

Commercial/Industrial Predicted Construction Noise Levels, L_{Aeq} : Henry Lawson Drive to East of Toll Plaza Area (Chainage 17430 to 18600)

NCA	Period	Ranking / Activity	External Construction Noise Management Level,		L _{Aeq,15min}	Commercial Industrial Comply (Y/N)
			L _{Aeq ,15min}			
			Comm.	Indust.		
Commercial _SC_QS_N	Day	(1) Earthworks	70	75	54-66	Yes Yes
		(2) Clearing & grubbing	70	75	53-65	Yes Yes
		(3) Concrete works	70	75	52-64	Yes Yes
		(3) Drainage works	70	75	52-64	Yes Yes
		(4) Pavement construction	70	75	51-63	Yes Yes
		(6) Noise walls construction	70	75	48-60	Yes Yes
		(6) Sedimentation basins works	70	75	48-60	Yes Yes
		(11) Landscaping & vegetation	70	75	33-45	Yes Yes

Commercial/ Industrial Predicted Construction Noise Levels, L_{Aeq} : Heathcote Road to East of Moorebank Avenue (Chainage 21300 to 22585)

NCA	Period	Ranking / Activity	External Construction Noise Management Level,		L _{Aeq,15min}	Commercial Industrial Comply (Y/N)
			L _{Aeq,15min}			
			Comm.	Indust.		
Commercial _HR_HLD_N	Day	(1) Earthworks	70	75	51-62	Yes Yes
		(2) Clearing & grubbing	70	75	50-61	Yes Yes
		(3) Concrete works	70	75	49-60	Yes Yes
		(3) Drainage works	70	75	49-60	Yes Yes
		(4) Pavement construction	70	75	48-59	Yes Yes
		(6) Noise walls construction	70	75	45-56	Yes Yes
		(6) Sedimentation basins works	70	75	45-56	Yes Yes
		(11) Landscaping & vegetation	70	75	30-41	Yes Yes
Commercial _MA_HLD_S	Day	(1) Earthworks	70	75	52-69	Yes Yes
		(2) Clearing & grubbing	70	75	51-68	Yes Yes
		(3) Bridge works	70	75	50-67	Yes Yes
		(3) Concrete works	70	75	50-67	Yes Yes
		(3) Drainage works	70	75	50-67	Yes Yes
		(4) Pavement construction	70	75	49-66	Yes Yes
		(6) Noise walls construction	70	75	46-63	Yes Yes
		(6) Sedimentation basins works	70	75	46-63	Yes Yes
		(11) Landscaping & vegetation	70	75	31-48	Yes Yes

