

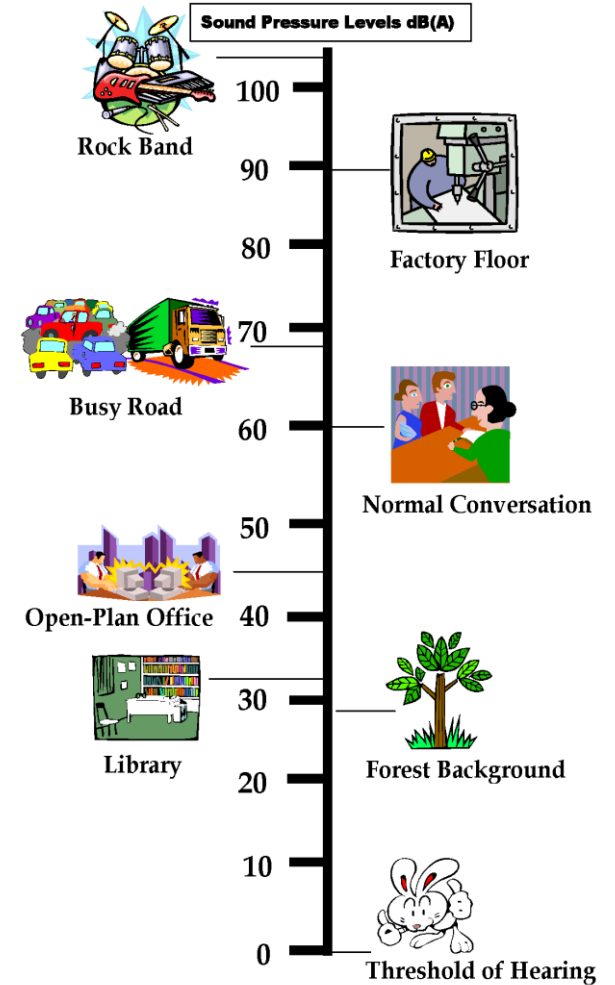


# Noise Management Process

Fionnuala Hannon

# 2 Noise Management

- State Planning Policy 5.4 – road and Rail Transport Noise and Freight Considerations in Land Use Planning
- Forecast traffic volumes (2040)





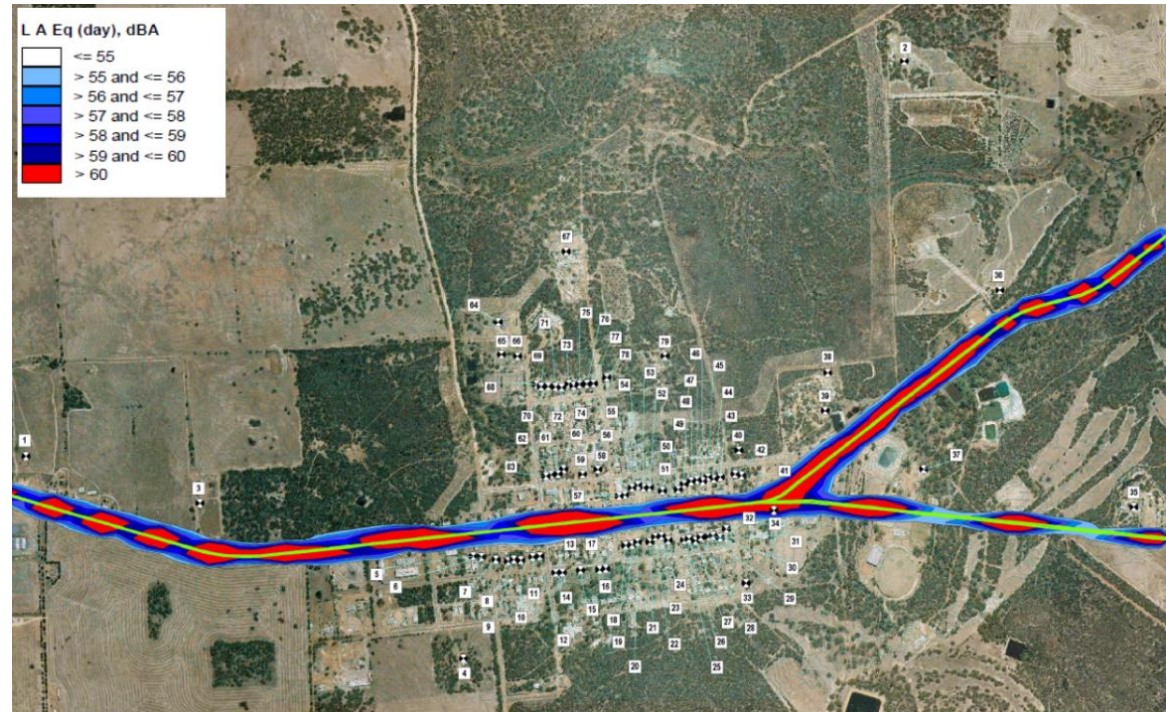
# Extract from SPP 5.4 User Guide

Table A.1: Estimated outdoor noise level for road and rail screening assessments

Road	Characteristics	Vehicles per day	Distance from edge of carriageway (metres)									
			10	20	30	40	50	100	200	300		
Primary road / distributor ( $L_{Aeq,Day}$ ), dB <sup>10</sup>	(Urban) 80-100 km/hr and 7.5% heavy vehicles	20,000	70	67	64	63	62	58	52	50		
		35,000	71	68	66	64	63	59	53	51		
		50,000	73	70	67	65	65	61	55	52		
		65,000	74	71	68	67	66	62	56	53		
		80,000	75	72	69	68	67	63	57	54		
		100,000	76	73	70	69	68	64	58	55		
		120,000	77	74	71	70	69	65	59	56		
	(Rural) 90-110 km/hr and 10% heavy vehicles	5,000	69	66	63	62	61	57	51	49		
		10,000	72	69	66	65	64	60	54	52		
		15,000	74	71	68	67	66	62	56	53		
		20,000	75	72	69	68	67	63	57	55		
		Secondary road / district distributor ( $L_{Aeq,Day}$ ), dB <sup>10</sup>	60-80 km/hr and 2.5% heavy vehicles	20,000	67	64	61	60	58	54	48	46
				25,000	68	65	62	61	59	55	49	47
				30,000	69	66	63	61	60	56	50	48
40,000	70			67	64	62	61	57	51	49		
50,000	71			68	65	63	61	58	52	50		
60,000	72			69	66	64	62	59	53	51		

# What Goes Into a Noise Model

- House Ground Levels
- Property Fences (where solid)
- Designed Road Levels
- Vehicle Heights
- Future Traffic Volumes
- Heavy Vehicle Numbers
- Road Surface Types
- Road Gradients



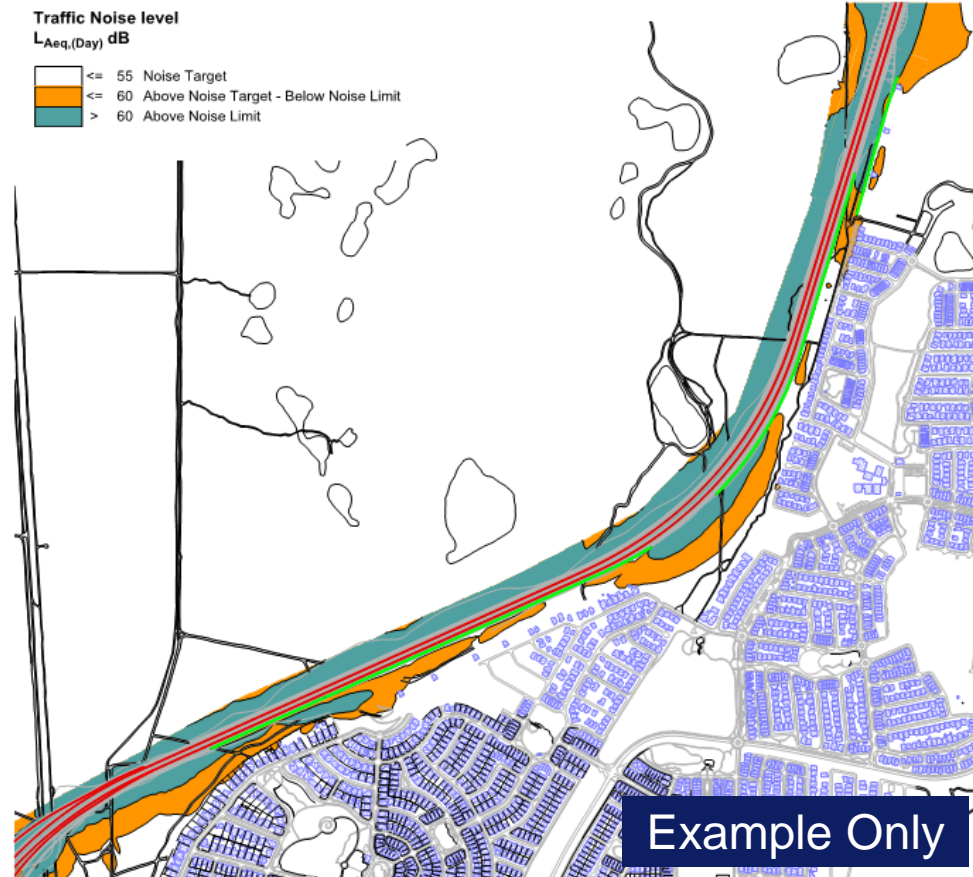
Example Only

# Possible noise outcomes

- Potential Noise Walls
- Architectural mitigation
- Quiet Pavement

Accepted corrections for various road surfaces are:

- 14mm chip seal	+3.5dB
- 10mm chip seal	+2.5dB
- 5mm chip seal	+1.5dB
- Dense graded asphalt	0.0dB
- Novachip	-0.2dB
- Stone mastic asphalt	-1.5dB
- Open graded asphalt	-2.5dB



- The Noise loggers along the alignment provide information that is used to calibrate/refine the model. This details enables our modellers to determine daytime and night time noise contours.

## Next Steps

- Noise Monitoring is complete
- Prepare Noise Modelling Report
- Complete peer review
- Present to CRG and communities of interest
- Agree form of treatment with CRG.

# QUESTIONS AND ANSWERS



# Emergency Management Provisions

Padraic Murphy



# Emergency Facilities Update

- A meeting was held with the Shire of Capel and local firefighting representatives on the 18<sup>th</sup> October 2018.
- Discussion focused on water access and egress routes.
- Ensure the BORR does not increase the hazard for any landowner.
- Provide a fire fighting water tank east of BORR on Ducane Road.
- Investigate the provision of a tank south of BORR at Yalinda Drive.
- Emergency egress routes were discussed and agreed in principle.
- Investigation of Jilley Road to determine the impacts of providing all weather access.



# Consultation and Engagement Update

Tammy Mitchell – BORR Team  
Community & Stakeholder Engagement  
Manager

## Community Information Sessions

- Community Information Sessions were held at:
    - Eaton 24 October
    - Leschenault 25 October
    - Bunbury 30 October
    - Gelorup 31 October
  - Outline the key themes raised by the community
  - Summarise feedback provided at the sessions
- (the above information will be updated post events, prior to CRG meeting)*

# QUESTIONS AND ANSWERS



**CRG Member  
Round table**



# Next Steps