

Please pick from drop-down list in orange cells

Noise area category			R1
RBL or LAeq Background level (dB(A))	Day		40
	Evening		35
	Night		30
LAeq(15minute) Noise Management Level (dB(A))	Day		50
	Day (OOHW)		45
	Evening		40
	Night		35
Scenario			Compound site establishment
Is there line of sight to receiver?			Yes

Distanced Based Assessment (Construction Scenario)

Steps for Screening Assessment:

1. Schedule noisy works to occur in standard hours where possible or before 11pm and implement Standard Measures.
2. Select the representative noise area category. The worksheet titled 'Representative Noise Environ.' provides a number of examples to help select the noise area category.
3. Select the scenario. If not found in drop-down list, refer to 'Source List' and select a representative scenario with similar plant combination.
4. Is there line of sight to receiver? Select the appropriate scenario from the drop down list.

Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the standard mitigation measures by changing the selection in the 'Is there line of sight to receiver' drop-down list. Solid barrier can be in the form of road cutting, solid construction hoarding, acoustic curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered to be a form of solid barrier and any gaps would compromise the acoustic integrity of the solid barrier.

6. Determine if there are any receivers (both residential and non-residential receivers) within the affected distance for each relevant time period. Consider background noise measurements to check assumption in Step #2 if:

(a) there are many affected receivers and the impact duration at any one receiver is more than 3 weeks; or

(b) there are a few affected receivers and the impact duration at any one receiver is more than 6 weeks.

Note that consideration need to be given to the construction staging plan when determining impact duration.

7. Identify if there are any receivers within the additional mitigation measures distances and identify feasible and reasonable measures at each receiver

8. Where night works are involved, identify sleep disturbance affected distance.

9. Document the outcomes of these steps.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator should be investigated on a project-by-project basis. Please

Abbreviation	Measure
N	Notification
SN	Specific notifications
PC	Phone calls
IB	Individual briefings
RO	Respite offer
R1	Respite period 1
R2	Respite period 2
DR	Duration respite
AA	Alternative accommodation
V	Verification

Note that spot check verification of noise levels and individual briefings are not required for projects with less than 3 weeks impact duration

Residential receiver			LAeq(15minute) noise level above background (LA90)												LAeq(15minute) 75 dB(A) or greater (Highly affected)				Sleep disturbance Lmax 65 dB(A)		
			5 to 10 dB(A) Noticeable			10 to 20 dB(A) Clearly audible			20 to 30 dB(A) Moderately intrusive			> 30 dB(A) Highly intrusive									
			Affected distance (m)			Measures	Within distance (m)	Mitigation level (dB(A))	Measures	Within distance (m)	Mitigation level (dB(A))	Measures	Within distance (m)	Mitigation level (dB(A))	Measures	Within distance (m)	Mitigation level (dB(A))				
Undeveloped green fields, rural areas with isolated dwellings	Day	360							N	170	60	N	65	70	N, PC, RO	35	75	115			
	Day (OOHW)	525							N, R1, DR	170	60	N, R1, DR, PC, SN	65	70	N, PC, RO	35	75				
	Evening	755							N, R1, DR	250	55	N, R1, DR, PC, SN	115	65	N, PC, RO	35	75				
	Night	1085	N	1085	35				N, R2, DR	755	40	N, PC, SN, R2, DR	360	50	AA, N, PC, SN, R2, DR	170	60		N, PC, RO	35	75
	Highly Affected	35																	N, PC, RO	35	75
Developed settlements (urban and suburban)	Day	460							N	200	60	N	75	70	N, PC, RO	40	75	130			
	Day (OOHW)	685							N, R1, DR	200	60	N, R1, DR, PC, SN	75	70	N, PC, RO	35	75				
	Evening	1010							N, R1, DR	305	55	N, R1, DR, PC, SN	130	65	N, PC, RO	40	75				
	Night	1455	N	1455	35				N, R2, DR	1010	40	N, PC, SN, R2, DR	460	50	AA, N, PC, SN, R2, DR	200	60		N, PC, RO	40	75
	Highly Affected	40																	N, PC, RO	40	75
Propagation across a valley / over water	Day	630							N	250	60	N	90	70	N, PC, RO	40	75	155			
	Day (OOHW)	955							N, R1, DR	250	60	N, R1, DR, PC, SN	90	70	N, PC, RO	40	75				
	Evening	1415							N, R1, DR	405	55	N, R1, DR, PC, SN	150	65	N, PC, RO	40	75				
	Night	2005	N	2005	35				N, R2, DR	1415	40	N, PC, SN, R2, DR	630	50	AA, N, PC, SN, R2, DR	250	60		N, PC, RO	40	75
	Highly Affected	40																	N, PC, RO	40	75