

RBL or Lago Day
Background level Evening

 Jackground
 Learning

 (dB(A))
 Night

 Day
 Day

 Day (OOHW)
 Day (OOHW)

 Evening
 Night

ckground leve (dB(A))

Distanced Based Assessment (Noisiest Plant)

- Steps for 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 e xamples to help select the noise area category.

 3. Select the representative noise area category. The worksheet titled 'Representative Noise Environ.' provides a number of e xamples to help select the noise area category.

 4. Is there line of sight to receiver? Select the appropriate scenario from the drop down list.

 5. Identify and implement standard mitigation measures where feasible and reasonable. Include any shiften the standard mitigation measures by changing the selection in the 1s there line of sightois to receiver' drop-down list. Solid barriers can be in the form of road cutting, timber lapped and cappe of fence, shipping container, site office, etc. Substantial solid barriers are barriers greater than 5 metres in height or multiple rows of houses or a sound barrier specifically designed to mitigate con struction noise. 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.

 5. Determine if there are any receivers (both residential and non-residential receivers) within the affected distance for each relevant time period. Consider background LA90 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 reasonab le measures at each receiver.

 8. Where night works are involved, identify sleep disturbance affe

(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. F	Please contact
a Roads and Maritime noise speciliast for more information)	

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

K	es	Ia	e	u	aı	re	ЭC	eı	V

								LAeq(15minute) noise level above back	ground (LA90)								Class Parkshares
				5 to 10 de	3(A)		10 to 20 dB(A)		20 to	30 dB(A)		>	· 30 dB(A)		LAeq(15minute) 75 dB(A) or greater (Highly	affected)	Sleep disutrbance Lamax 65 dB(A)
				Noticeal	ble		Clearly audible	9	Moderat	tely intrusive		Higl	hly intrusive					LAMEX 05 UD(A)
		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))	Measures	Within distance (m)	Mitigation level (dB(A))	Affected distance (m)
	Day	95							N, PC, RO	30	75	N, PC, RO	30	75	N, PC, RO	30	75	
Undeveloped green fields, rural	Day (OOHW)	140				N, R1, DR	95	65	N, R1, DR	30	75	N, R1, DR, PC, SN	15	85	N, PC, RO	30	75	1 1
areas with	Evening	200				N, R1, DR	140	60	N, R1, DR	55	70	N, R1, DR, PC, SN	25	80	N, PC, RO	30	75	
isolated dwellings	Night	290	N	290	50	N, R2, DR	200	55	N, PC, SN, R2, DR	95	65	AA, N, PC, SN, R2, DR	30	75	N, PC, RO	30	75	160
	Highly Affected	30													N, PC, RO	30	75	
	Day	105							N, PC, RO	35	75	N, PC, RO	35	75	N, PC, RO	35	75	1 1
Developed	Day (OOHW)	155				N, R1, DR	105	65	N, R1, DR	35	75	N, R1, DR, PC, SN	15	85	N, PC, RO	35	75	1 1
settlements (urban and	Evening	240				N, R1, DR	155	60	N, R1, DR	60	70	N, R1, DR, PC, SN	25	80	N, PC, RO	35	75	
suburban)	Night	360	N	360	50	N, R2, DR	240	55	N, PC, SN, R2, DR	105	65	AA, N, PC, SN, R2, DR	35	75	N, PC, RO	35	75	185
Guburbany	Highly Affected	35													N, PC, RO	35	75	
	Day	115							N, PC, RO	45	75	N, PC, RO	45	75	N, PC, RO	45	75	1 1
Propagation	Day (OOHW)	190				N, R1, DR	115	65	N, R1, DR	45	75	N, R1, DR, PC, SN	15	85	N, PC, RO	45	75	1 1
across a valley /	Evening	310				N, R1, DR	190	60	N, R1, DR	70	70	N, R1, DR, PC, SN	25	80	N, PC, RO	45	75	1 1
over water	Night	485	N	485	50	N, R2, DR	310	55	N, PC, SN, R2, DR	115	65	AA, N, PC, SN, R2, DR	45	75	N, PC, RO	45	75	230
	Highly Affected	45													N, PC, RO	45	75	

lon-	res	iden	tial	rece	ive

Undeveloped green fields, rural areas with isolated dwellings						LAeq(15mir	oute) noise level above NML	•		LAeq(15minute) 75 dB	(A) or greater (High	nly affected)
		Standard h	ours		<10 dB(A)		10 to	20 dB(A)			(., 3 (3.	.,,
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))
Classroom at schools and other educational institutions	Day	55	200		,	(05(71))	N	95	65	N, PC, RO	30	75
Hospital wards and operating theatres	Day	65	95			•				N, PC, RO	30	75
Place of worship	Day	55	200				N	95	65	N, PC, RO	30	75
Active recreation	Day	65	95							N, PC, RO	30	75
Passive recreation	Day	60	140				N	55	70	N, PC, RO	30	75
Industrial premise	Day	75	30							N, PC, RO	30	75
Offices, retail outlets	Day	70	55							N, PC, RO	30	75

									Lauriarus	ute) noise level above NML					
		ООНУ	V		< 5 dB(A)		5 to	o 15 dB(A)	LAeq(15min		to 25 dB(A)		>	25 dB(A)	
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))
Hospital wards and operating theatres	Evening	65	95				N, R1, DR	55	70	N, R1, DR	17	80	N, R1, DR, PC, SN	5	90
Hospital wards and operating theatres	Night	65	95	N	95	65	N, R2, NR	55	70	N, PC, SN, R2, DR	17	80	AA, N, PC, SN, R2, DR	5	90
Place of worship	Evening	55	200				N, R1, DR	140	60	N, R1, DR	55	70	N, R1, DR, PC, SN	17	80
Place of worship	Night	55	200	N	200	55	N, R2, NR	140	60	N, PC, SN, R2, DR	55	70	AA, N, PC, SN, R2, DR	17	80
Active recreation	Evening	65	95				N, R1, DR	55	70	N, R1, DR	17	80	N, R1, DR, PC, SN	5	90
Passive recreation	Evening	60	140				N, R1, DR	95	65	N, R1, DR	30	75	N, R1, DR, PC, SN	9	85
Industrial premise	Evening	75	30	1			N, R1, DR	17	80	N, R1, DR	5	90	N, R1, DR, PC, SN	2	100
industriai premise	Night	75	30	N	30	75	N, R2, NR	17	80	N, PC, SN, R2, DR	5	90	AA, N, PC, SN, R2, DR	2	100
Offices, retail outlets	Evening	70	55				N, R1, DR	30	75	N, R1, DR	9	85	N, R1, DR, PC, SN	3	95
Offices, retail outlets	Night	70	55	N	55	70	N, R2, NR	30	75	N, PC, SN, R2, DR	9	85	AA, N, PC, SN, R2, DR	3	95

Developed settlements (urban and suburban)						LAeq(15mi	nute) noise level above NML			LAeq(15minute) 75 dB	(A) or greater (High	ly affected)
		Standard h	ours		<10 dB(A)		10 to	20 dB(A)		Exceq (Similate) 75 db		•
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))
Classroom at schools and other educational institutions	Day	55	240				N	105	65	N, PC, RO	35	75
Hospital wards and operating theatres	Day	65	105]						N, PC, RO	35	75
Place of worship	Day	55	240				N	105	65	N, PC, RO	35	75
Active recreation	Day	65	105							N, PC, RO	35	75
Passive recreation	Day	60	155				N	60	70	N, PC, RO	35	75
Industrial premise	Day	75	35]						N, PC, RO	35	75
Offices, retail outlets	Day	70	60							N, PC, RO	35	75

									LAeq(15min	ute) noise level above NML					
		OOH	V		< 5 dB(A)		5 to	15 dB(A)		15	to 25 dB(A)		>	· 25 dB(A)	
	Period	NML	Affected	Measure	Within distance	Mitigation level	Massura	Within distance	Mitigation level	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level
<u> </u>	Period	NIVIL	distance (m)	weasure	(m)	(dB(A))	Measure	(m)	(dB(A))	weasure	(m)	(dB(A))	wiedsure	(m)	(dB(A))
Hospital wards and operating theatres	Evening	65	105				N, R1, DR	60	70	N, R1, DR	20	80	N, R1, DR, PC, SN	6	90
mospital wards and operating theatres	Night	65	105	N	105	65	N, R2, NR	60	70	N, PC, SN, R2, DR	20	80	AA, N, PC, SN, R2, DR	6	90
Place of worship	Evening	55	240				N, R1, DR	155	60	N, R1, DR	60	70	N, R1, DR, PC, SN	20	80
riace of worship	Night	55	240	N	240	55	N, R2, NR	155	60	N, PC, SN, R2, DR	60	70	AA, N, PC, SN, R2, DR	20	80
Active recreation	Evening	65	105				N, R1, DR	60	70	N, R1, DR	20	80	N, R1, DR, PC, SN	6	90
Passive recreation	Evening	60	155	1			N, R1, DR	105	65	N, R1, DR	35	75	N, R1, DR, PC, SN	11	85
Industrial premise	Evening	75	35				N, R1, DR	20	80	N, R1, DR	6	90	N, R1, DR, PC, SN	2	100
industrial premise	Night	75	35	N	35	75	N, R2, NR	20	80	N, PC, SN, R2, DR	6	90	AA, N, PC, SN, R2, DR	2	100
Offices, retail outlets	Evening	70	60				N, R1, DR	35	75	N, R1, DR	11	85	N, R1, DR, PC, SN	4	95
Offices, retail outlets	Night	70	60	N	60	70	N P2 NP	35	75	N PC SN P2 DP	11	85	AA N PC SN P2 DP	1	05

Non-residential receiver												
Propagation across a valley / over water						LAeq(15mir	nute) noise level above NML			LAeq(15minute) 75 dB	(A) or greater (High	ly affected)
		Standard h	ours		<10 dB(A)		10 to	20 dB(A)		Exeq(13iiiiidie) 73 dB	(A) or greater (riigi	ily directed)
	Period	NML	Affected	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level
	renou	MINIT	distance (m)	ivicasure	(m)	(dB(A))	Weasure	(m)	(dB(A))	measure	(m)	(dB(A))
Classroom at schools and other educational institutions	Day	55	310				N	115	65	N, PC, RO	45	75

55	310
65	115
60	190
75	45
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Hospital wards and operating theatres	Day	65	115
Place of worship	Day	55	310
Active recreation	Day	65	115
Passive recreation	Day	60	190
Industrial premise	Day	75	45
Offices, retail outlets	Day	70	70

				Lacq(15minute) noise level above NML												
		OOHW			< 5 dB(A)		5 to 15 dB(A)			15 to 25 dB(A)			> 25 dB(A)			
	Period	NML	Affected	Measure	Within distance	distance Mitigation leve	M	Within distance	Mitigation level	Measure	Within distance	Mitigation level	Measure	Within distance	Mitigation level	
	Period	NIVIL	distance (m)		(m)	(dB(A))	Measure	(m)	(dB(A))		(m)	(dB(A))		(m)	(dB(A))	
Hospital wards and operating theatres	Evening	65	115				N, R1, DR	70	70	N, R1, DR	25	80	N, R1, DR, PC, SN	6	90	
	Night	65	115	N	115	65	N, R2, NR	70	70	N, PC, SN, R2, DR	25	80	AA, N, PC, SN, R2, DR	6	90	
Place of worship	Evening	55	310				N, R1, DR	190	60	N, R1, DR	70	70	N, R1, DR, PC, SN	25	80	
	Night	55	310	N	310	55	N, R2, NR	190	60	N, PC, SN, R2, DR	70	70	AA, N, PC, SN, R2, DR	25	80	
Active recreation	Evening	65	115				N, R1, DR	70	70	N, R1, DR	25	80	N, R1, DR, PC, SN	6	90	
Passive recreation	Evening	60	190	1			N, R1, DR	115	65	N, R1, DR	45	75	N, R1, DR, PC, SN	15	85	
Industrial premise	Evening	75	45	1			N, R1, DR	25	80	N, R1, DR	6	90	N, R1, DR, PC, SN	2	100	
	Night	75	45	N	45	75	N, R2, NR	25	80	N, PC, SN, R2, DR	6	90	AA, N, PC, SN, R2, DR	2	100	
Offices, retail outlets	Evening	70	70				N, R1, DR	45	75	N, R1, DR	15	85	N, R1, DR, PC, SN	4	95	
	Night	70	70	N	70	70	N, R2, NR	45	75	N, PC, SN, R2, DR	15	85	AA, N, PC, SN, R2, DR	4	95	