# RP2J Project OOHW application form

Out of hours work appro	Out of hours work approval request form								
No:	Notification date:	Approval date:	Project:						
004	2/11/22	24/11/22	RP2J						
A. Contact details	Name	Mobile number	Email						
Contractor Environmental Site Representative									
Contractor Construction Manager									
Contractor Foreman									
Contractor Project Manager									
B. Details of work: Include a map showing lo									
	Geotechnical investigation locations: - BH2411, BH2415, BH2563, BH2564, BH2583.    Common Section   Common S								
NCA/s:  Description of works – also include a brief description of the sequence of activities:	Mobilisation to     Set up ERSED     Set up drill rig     Set up ancillary     Drill to required     Demobilise rig	and Traffic controls who in specified location as p y plant, watercart, tank, t	ere required per the drilling co-ordinates. tubes.						
Machinery/ plant to be used	- Track mounted - Road registere - LV's.	d watercart							
Traffic control measures required:	Works to be conducted	l under approved TMP's	and ROL's						
Lighting required:	Yes								

Out of hours work appro	oval request form
Proposed dates:	4 shifts are required between 28/11/22 to 1/12/22 with a redundancy of four shifts between 4/12/22 and 8/12/22 should there be an overrun.  Works are proposed during OOHW Period 1 and 2 between 1800hrs – 0700hrs.  No works will be undertaken on Saturday or Sunday night (3-4 December).
Proposed times:	1800hrs – 0700hrs
Justification - why does work need to occur outside of standard construction hours? (attach support information as required)	Due to the location of the boreholes being in live traffic lanes and the nature of the works requiring intermittent access OOHW is the safest time for this work to be conducted and aligns with the availability of ROL's.
C. Risk assessment	
NML (refer Table 3-2 of OOHW protocol)	NCA4 P1 – 51 P2 – 41 NCA5 P1 – 56 P2 – 46
Is the work highly noise intensive? (above 75dB(A) L <sub>Aeq (15</sub> minute))	No – The most affected receiver is expected to be ~59dBA. See table 1 below.
Risk factor category (refer section 4.3 of OOHW protocol):	Comments: The noise predictions for the works have been assessed against the guidance within section 4.3 of the Out of Hours Works Protocol. The most affected receiver is 193 Newcastle Rd which does not exceed RBL+25 as shown in table 1 below.

#### D. Details of noise or vibration assessment completed:

Comments: A noise assessment has been undertaken using the TfNSW noise estimator tool (provided in Appendix B). A summary of the outputs of this assessment are presented below as table 1 with an overlay of impacted areas provided within Figure 1.

#### E. Proposed mitigation measures, including respite

#### Comments:

- Toolbox talk to be undertaken prior to the OOHW to communicate appropriate behavioural practices
- Equipment will be inspected to ensure defects are not present. Works will be undertaken with minimum amount of equipment practical to complete the works.
- Utilise noise blankets between the works and the Jesmond Villas to the west.
- All workers are to be inducted to site.
- Vehicles working OOH must have non-tonal reverse alarms, reversing is to be minimised. Vehicles are to be turned off when not in use, not left idling.
- Stakeholder notification will occur specific to these works will be undertaken 5-14 days prior to the works being undertaken.
- Noise monitoring to validate predictions.

#### Out of hours work approval request form

 Respite is considered appropriate for these works if BH2411 & BH2415 are not able to be completed within 3 shifts. While they are expected to be completed within one shift each, if a fourth shift is required it would be completed at least one week after the third shift.

#### F. Community consultation

Outline consultation undertaken for the proposed OOHW:

- 3 month look ahead distributed to the community
- Specific OOHW notice to be delivered to sensitive receivers within the green line shown on figure 1.

Has respite periods for OOHW been identified with the affected community on a monthly basis and a three-month schedule of likely OOHW provided (refer CoA E29)?

- Respite is considered appropriate for these works if BH2411 & BH2415 are not able to be completed within 3 shifts. While they are expected to be completed within one shift each, if a fourth shift is required it would be completed at least one week after the third shift. Following the (up to) 3 shifts at BH2411 & BH2415 the crew would relocate to one of the other 3 locations listed above as these locations do not trigger respite.

Has the outcome of community consultation, the identified respite periods and scheduling of likely OOHW been provided to the ER, EPA and Planning Secretary?

Transport for NSW provides this information to the ER and Planning Secretary through the OOHW application process relevant to OOHW, and when approval is sought.

#### G. Respite framework

Outline any previous respite within the last month and the status of community agreements (where relevant)?

- N/A - the previous OOHW in this NCA were 2-3 weeks prior and did not trigger respite.

Have cumulative impacts from OOHW permitted by an EPL been considered during the development appropriate respite?

Yes, no other OOHW works are proposed to occur within the same week of these works.

#### H. Details of non-residential receivers (if any) and corresponding NMLs

Comments:

- N/A

#### I. Are there any properties at risk of exceeding the screening criteria for cosmetic damage?

Comments:

No, the rig does not pose a vibration risk to any nearby properties.

## I. Review/ Endorsements

Contractor Community Liaison Representative	Community notified – Yes  Notifications provided in Appendix A.		Date: 2/11/22 (look ahead) 14/11/22 (notice)	
	Additional consultation requirements: Nil			
		Yes <del>/ No</del>		
	Name: Signature:			
			14/11/2022	

Out of hours work appro	oval request form		
	Comments:		
Transport for NSW Environmental Manager (or delegate)	Agreed mitigation measures:		
	Have the works been reviewed and endorsed?		Yes / Ne
	Have the works been approved where neither le	ow or high risk?	Yes / No
	Name:	Signature:	Date:
			24/11/22
	Comments:		1
Transport for NSW	Have the works been reviewed and endorsed?		Yes / No-
Project Manager	Have the works been approved where neither le	ow or high risk?	Yes / Ne-
	Name:	Signature:	Date:
			24/11/22
	Comments:		
ER approval (low risk	Are the works approved?		Yes / <del>No</del>
activities)	Name:	Si <u>qnature:</u>	Date:
			24/11/2022
	Comments:		
Planning Secretary	Are the works approved?		Yes / No
approval (high risk activities)	Name:	Signature:	Date:
,			
	Comments:	,	

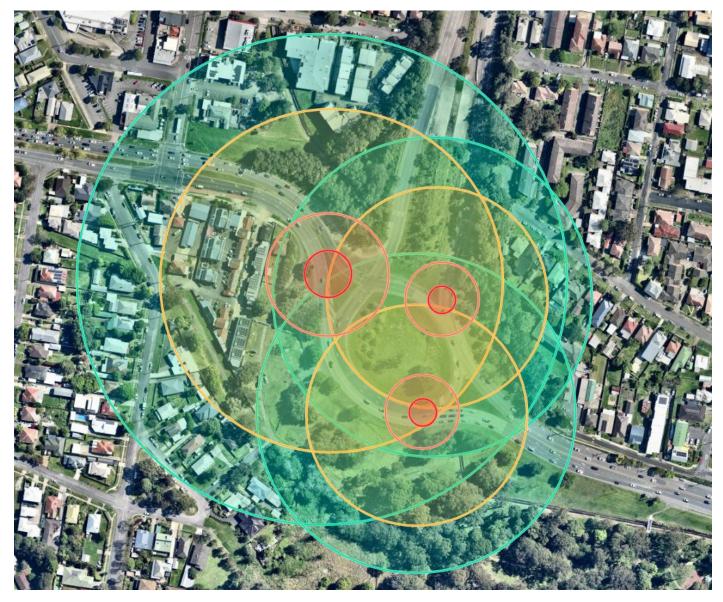


Figure 1 – Predicted Noise Impacts

Green = >NML

Yellow = NML+5 & above

Orange = NML+15 & above

Red = NML+25 & above



Table 1 – Noise estimator output

Borehole No.	NCA	dBA @ Most Affected	dBA Above NML
2411	4	59	18
2415	4	56	15
2563	4	51	10
2564	5	53	7
2583	5	47	1

### **Appendix A Consultation**





November 2022

### Newcastle Inner City Bypass - Rankin Park to Jesmond

Night work for geotechnical investigations from Monday 28 November

The Australian and NSW governments are funding construction of a 3.4 kilometre section of the Newcastle Inner City Bypass between Rankin Park and Jesmond. Transport for NSW has engaged Fulton Hogan to finalise the design and construct this section of the bypass.

#### Night work in your area

Night work is planned for Monday 28 November to Friday 9 December 2022 (weekends excluded), between 6pm and 7am, weather permitting. Work includes geotechnical investigations in and around the Newcastle Inner City Bypass and Newcastle Road, Jesmond to investigate ground conditions. We will be drilling boreholes in the live traffic lanes therefore out of hours work is the safest way to conduct this work. We will only work three nights in a row, the additional two nights would be done the following week to allow the community respite from the night works.

#### Details of planned work

Newcastle Inner City Bypass, Newcastle Road, Jesmond and within the Jesmond roundabout

- Set up drill rigs and ancillary equipment at various locations as shown on the map below
- · Drill to required depths
- · Move equipment between locations
- · Traffic control set up and pack up
- · Lighting towers for the work area

Up to 5 nights over a two week period.



### Traffic changes

There will be traffic controllers on site, temporary lane closures and drilling rigs positioned in the lanes throughout the night works.

These will move locations, please take care, keep to the sign posted speed limits and follow the direction of traffic controllers.

For the latest traffic updates, you can call 132 701, visit livetraffic.com or check the Live Traffic App.

#### Why is work carried out at night?

Work is required outside standard construction hours to:

- improve safety by minimising the interactions between road users, pedestrians and workers
- minimise delays and journey times for motorists and businesses.

#### How will the work affect you?

There will be drilling rigs and other plant and equipment working in different areas throughout the night works. The machinery and equipment that generate light, noise and vibration. We will make every effort to minimise these impacts by:

- · turning off machinery and vehicles when not in use
- · using non-tonal reversing alarms
- · positioning of machines and directing temporary lighting down and away from homes
- planning activities close to residents within standard construction hours and scheduling noisy activities earlier in the night, where possible
- · only working three nights in a row with a respite period of a week before recommencing night works
  - monitoring noise to manage any potential impacts and adjusting our work, where possible.

Noise levels will be moderate. Directly affected residents will be contacted and advised of the likely impact and what we are doing to minimise disruption during the work.

#### More information

If you would like to provide feedback, or have any questions about this work, please contact our project team on 1800 818 433 (24 hours), email RP2JCommunity@fultonhogan.com.au or mail to PO Box 186, Waratah, NSW 2298.

For more information about the project visit nswroads.work/rp2j.

Thank you for your patience during this important work.

#### Translating and interpreting service



If you need help understanding this information, please contact the Translating and Interpreting Service on 131 450 and ask them to call us on 1800 818 433.





November 2022

## Newcastle Inner City Bypass - Rankin Park to Jesmond

#### Early work from November 2022 to January 2023

The Australian and NSW governments are funding construction of a 3.4 kilometre section of the Newcastle Inner City Bypass between Rankin Park and Jesmond. Transport for NSW has engaged Fulton Hogan to finalise the design and construct this section of the bypass.

### What's happening?

Fulton Hogan are continuing early works until January 2023. Daytime work will be carried out Monday to Friday between 7am and 6pm and Saturday between 8am to 5pm and includes:

- · building condition and road condition surveys
- establishing three site compounds the main compound will be at the rear of the Mater Hospital with two
  minor compounds near the southern and northern interchanges
- · setting up environmental controls such as dust monitors and sediment controls
- · flagging construction site boundaries
- · site clearance at the southern end of the project near McCaffrey Drive
- · removing vegetation, clearing and grubbing for site access
- installing nest boxes
- · utilities investigations and geotechnical investigations
- · ground survey and topography survey.

The following activities are required outside of daytime project hours for the safety of workers and road users, and to minimise traffic delays to the network. Night work will be carried out from Sunday to Thursday between 8pm and 5am.

Date	Work Activity	Equipment				
November 2022 to January 2023	<ul> <li>Utility investigations and potholing</li> <li>Geotechnical investigations</li> <li>Saw cutting of footpaths and surrounding pavement and reinstatement of affected areas</li> <li>On road survey works</li> <li>Survey control works</li> <li>Site establishment</li> <li>Installing safety barriers around work areas</li> <li>Tree and vegetation removal</li> </ul>	<ul> <li>Traffic control</li> <li>Excavators</li> <li>Chainsaws</li> <li>Vacuum excavation</li> <li>Saw cutters</li> <li>Bore hole drills (vehicle mounted)</li> <li>Hand held compactors</li> <li>Franna cranes and hi-ab</li> <li>Survey equipment</li> <li>Trucks and light vehicles</li> <li>Lighting towers</li> </ul>				

#### Work area

The work on the southern interchange will occur along Lookout Road and McCaffrey Drive at Rankin Park. Work around the northern interchange will occur along Newcastle Road and Main Road, Jesmond, with additional works to occur in Jesmond Park and within the project boundary near the John Hunter Hospital.

#### How will the work affect you?

At times we will use machinery and equipment that generate light, noise and vibration. We will make every effort to minimise these impacts by:

- · turning off machinery and vehicles when not in use
- using non-tonal reversing alarms
- · positioning of machines and noise blankets
- · directing temporary lighting down and away from homes
- planning activities close to residents within standard construction hours and scheduling noisy activities earlier in the night, where possible
- · monitoring noise so we can manage any potential impacts and adjust our work, where possible.

Noise levels will vary between moderate to noisy. Directly affected residents will be contacted and advised of the likely impact and what we are doing to minimise disruption during the work.

#### Traffic changes

During night work there may be temporary lane closures with intermittent stop/slow traffic control, reduced speed limit of 40 km/h will be in place on Newcastle Road near the Newcastle Inner City Bypass roundabout, Lookout Road, McCaffrey Drive and on the existing Newcastle Inner City Bypass. Please keep to the sign posted speed limits and follow the direction of traffic controllers.

For the latest traffic updates, you can call 132 701, visit livetraffic.com or check the Live Traffic App.

#### More information

If you would like to provide feedback, or have any questions about this work, please contact our project team on 1800 818 433 (24 hours), email RP2JCommunity@fultonhogan.com.au or mail to PO Box 186, Waratah, NSW 2298.

For more information about the project visit nswroads.work/rp2j.

Thank you for your patience during this important work.

#### Translating and interpreting service



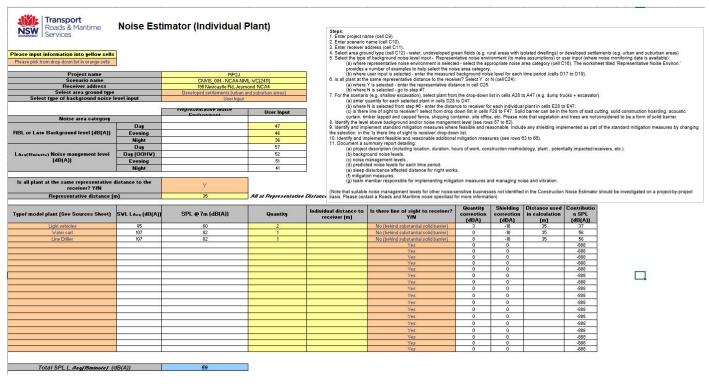
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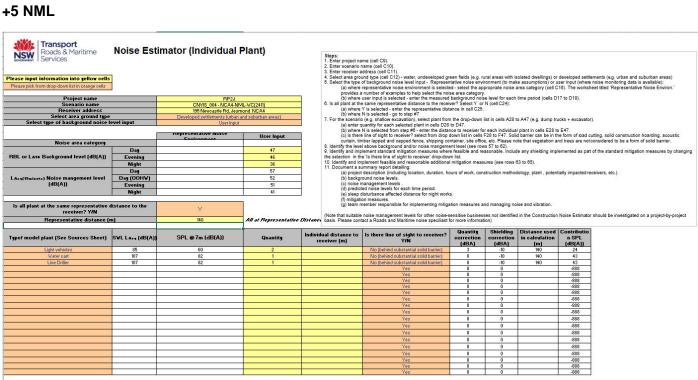
#### APPENDIX B NOISE ASSESSMENTS

#### **BH2411**

#### WORST - CASE

Total SPL L Aeg(15minute) (dB(A))







#### Noise Estimator (Individual Plant)

Please input information into yellow cells

Is all plant at the same representative distance to the receiver? Y/N

Project name	RP2J
Scenario name	CNVIS_004 - NCA4-NML-VC(2411)
Receiver address	195 Newcastle Rd, Jesmond NCA4
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User Input

		Environment	User Input
Noise area category			(
Night Day (05minuta) Noise mangement level (dB(A)) Evening	Day		47
RBL or Lase Background level (dB(A))	Evening		46
	Night		36
RBL or Lass Background level (dB(A))  RBL or Lass Background level (dB(A))  Right Day (dB(A))  GdS(A)  Evening	Day		57
LAsq(15minuts) Noise mangement level	Day (OOHV)		52
(dB(A))	Evening		51
	Evening		41

Steps:

1. Enter project name (cell Ct).

2. Enter scenario name (cell Ct).

2. Enter scenario name (cell Ct).

2. Enter scenario name (cell Ct).

3. Enter scenario name (cell Ct).

4. Select area ground type (cell Ct).

5. Select he type of background noise level input. Representative noise environment (to make assumptions) or user input (where noise monitoring data is available):

(a) where representative noise environment is estended -select the appropriate noise area category (cell Ct). The worksheet titled 'Representative Noise Environ.' provides a number of examples to help select the noise area category.

(a) where the same representative selected -select the act of the provides a number of examples to help select the noise area category.

(b) all plant at the same representative distance to the receiver? Select of or each time period (cells D17 to D19).

(c) all where this selected - one to step of the character of the cell Ct24;

(a) where this selected one to step of the character of the cell Ct24;

(b) where this selected select one that from the diophodown list in cells A28 to A47 (e.g. dump trucks + excavator).

(c) is there line of sight to receiver? Select from drop down list in cells A28 to A47;

(c) is there line of sight to receiver? Select from drop down list in cells F28 to F47.

(c) is there line of sight to receiver? Select from drop down list in cells F28 to F47. Solid barrier can be in the form of oad cutting, solid construction horarding, acoustic curtain, fine-field speed and caped effects. shipping container, size field, set of Peasa representative that vegetation and trees are noticonsidered to be a form of solid barrier.

1. Identify the level above background and/or noise mangement level (see rows 57 to 02).

1. Identify the level above background and/or noise mangement level (see rows 57 to 02).

1. Identify the level above background and/or noise mangement level (see rows 57 to 02).

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1. Iden

(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

Hepresentative distance [m]		48	All at Hepresentative Lastance basis. Please contact a Roads and Maritime noise speciliast for more information)						
Type! model plant (See Sources Sheet)	SVL La., (dB(A))	SPL @7m (dB(A))	Quantity	Individual distance to receiver (m)	Is there line of sight to receiver? Y/N	Quantity correction (dBA)		Distance used in calculation (m)	Contributio n SPL (dB(A))
Light vehicles	85	60	2		No (behind substantial solid barrier)	3	-10	48	34
Water cart	107	82	1	1	No (behind substantial solid barrier)	0	-10	48	53
Line Driller	107	82	1		No (behind substantial solid barrier)	0	-10	48	53
1.000mm				1	Yes	0	0		-888
	· ·	9			Yes	0	0		-888
					Yes	0	0		-888
		2	2		Yes	0	0		-888
				-1	Yes	0	0		-888
		3			Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
		3		ji	Yes	0	0		-888
			· v	3	Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
			, e		Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888

#### +25 NML

Transport
Roads & Maritime
Services

Total SPL L Aeg(15minute) (dB(A))

#### Noise Estimator (Individual Plant)

CNVIS\_004 - NCA4-NML-WC(2411) 195 Newcastle Rd, Jesmond NCA4

56

Select type of background noise is	ever impac	User input			
	1	nepresentative noise	User Input		
Noise area category					
RI or I see Rackground level (dR(A))	Day		47		
RBL or Lass Background level (dB(A))	Evening		46		
	Night		36		
Noise area category RBL or Lase Background level (dB(A))  LAse(15minute) Noise mangement level (dB(A))	Day		57		
	Day (OOHV)		52		
(dB(A))	Evening		51		
	Night		41		

Is all plant at the same representative distance to the receiver? Y/N

Total SPL L Aeg(I5minute) (dB(A))

Steps:

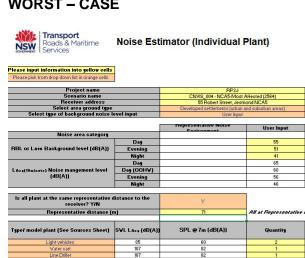
1. Enter project name (cell CD)
1. Enter project name (cell CD)
2. Enter project name (cell CD)
3. Enter project name (cell CD)
3. Enter project name (cell CD)
3. Enter project project name (cell CD)
4. Select area ground type (cell CD)
4. Select area ground type (cell CD)
5. Select he type of background noise level input. Representative noise environment (to make assumptions) or user input (where noise monitoring data is available):
(a) where representative noise environment as experience area category (cell CD). The worksheet titled Representative Noise Environ.
(b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
(c) a) where N is selected - enter the representative distance to the receiver? Select V or (cell CQ4):
(a) where N is selected on sorts period to state project noise area (cells D17 to D19).
(b) where user input is selected - enter the representative distance to the receiver? Select V or (cell CQ4):
(a) where N is selected on state period to state period (cells D17 to D19).
(c) where N is selected on state period to state period (cells D17 to D19).
(d) where N is selected on state period to state period (cells D17 to D19).
(e) enter quantity for each selected plant in cells D28 to D47.
(b) where N is selected being state period to state period (cells D17 to D19).
(e) enter quantity for each selected plant in cells D28 to D47.
(c) to the new line of sight to receiver? Select from drop down list in cells F28 to F47. Solid barrier can be in the form of call cutting, solid construction hoarding, acoustic countries of the standard midgation measures by changing the selection in the State time of sight to receiver? Select from drop down list in cells F28 to F47. Solid barrier can be in the form of feat outling, solid construction hoarding, acoustic countries and the selection in the selection of the standard midgation measures by changing the selection in the State time of sight to receiver? Select from disconnable. Include any shie

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

Type/ model plant (See Sources Sheet)		SPL @7m (dB(A))	Quantity	Individual distance to receiver (m)	Is there line of sight to receiver? Y/N	Quantity correction (dBA)		Distance used in calculation (m)	n SPL (dB(A))
Light vehicles	85	60	2	6	No (behind substantial solid barrier)	3	-10	20	44
Water cart	107	82	1		No (behind substantial solid barrier)	0	-10	20	63
Line Driller	107	82	1		No (behind substantial solid barrier)	0	-10	20	63
100000000000000000000000000000000000000					Yes	0	0	7.00	-888
					Yes	0	0		-888
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			-	The state of the s	Yes	0	0		-888
					Yes	0	0		-888
			-		Yes	0	0		-888
				9	Yes	0	0		-888
					Yes	0	. 0		-888
					Yes	0	0		-888
					Yes	0	0		-888
				6	Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888

#### **BH2564**

#### **WORST - CASE**



Steps:
1. Enter project name (pol CD)
1. Enter project name (pol CD)
1. Enter project name (pol CD)
2. Enter receiver address (pol CD)
3. Enter receiver address (pol CD)
3. Enter receiver address (pol CD)
4. Select area ground type (pol CD)
5. Select the type of background noise level input. Representative noise environment (to make assumptions) or user input (where noise monitoring data is available).
(a) where representative noise environment as area category (pol CD). The worksheet titled Representative Noise Environ: provides a number of examples to help select the noise are category (pol CD). The worksheet titled Representative Noise Environ: provides a number of examples to help select the noise are category (pol CD). The worksheet titled Representative Noise Environ: provides a number of examples to help select the noise are category (pol CD). The worksheet titled Representative Noise Environ: provides a number of examples to help select and the noise category (pol CD). The worksheet (the Representative Noise Environ: provides a number of examples to the receiver? Select Y or N (cell CQ4):
(a) where Y is selected—one to so the Price to that from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
(b) where N is selected and the set pol select from drop down list in cells E28 to E47.
(c) is there line of sight to receiver? Select from drop down list in cells F28 to F47. Solid barrier can be in the form of add cutting, solid construction hoarding, acoustic cutting the level above to adorginum and to mose management level (see rows \$7 to 62).

8. dentify the level above to adorginum and to mose management level (see rows \$7 to 62).

9. dentify the level above to adorginum and to mose management level (see rows \$7 to 62).

10. dentify the level above to adorginum and to mose management level (see rows \$7 to 62).

10. dentify the level above to adorginum and to mose management level (see rows \$7 to 62).

10. dentify the level above to adorginum and to mose management level (see rows \$7 to 6

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

			1						
Type/ model plant (See Sources Sheet)			Quantity	Individual distance to receiver (m)	YIÑ	Quantity correction (dBA)		Distance used in calculation (m)	Contributio n SPL (dB(A))
Light vehicles	85	60	2		No (behind substantial solid barrier)	3	-10	71	31
Water cart	107	82	1		No (behind substantial solid barrier)	0	-10	71	50
Line Driller	107	82	1		No (behind substantial solid barrier)	0	-10	71	50
					Yes	0	0	100	-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0	9	-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888

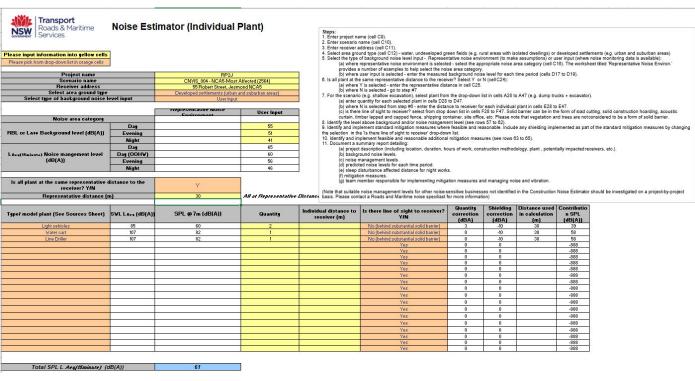
Total SPL L Aeg(15minute) (dB(A))

Total SPL L Aeg(15minute) (dB(A)) 51

+5 NML										
Roads & Maritime Services  Please input information into gellov cells Please pick from drop-downlist in orange cells	<u>0</u>	imator (Individual I	Plant)	5. Select the type (a) where	name (cell C10). iddress (cell C11). und type (cell C12) - water, undeveloped gr of background noise level input - Represen representative noise environment is selecte	tative noise envi	ronment (to mak propriate noise a	e assumptions) or us	er input (where	noise monitoring data is available):
				provides a	number of examples to help select the noi- user input is selected - enter the measured	se area category			7. 5.6	
Project name Scenario name		RP2J			user input is selected - enter the measured a same representative distance to the recei			ume period (ceils D1	/ to D19).	
Scenario name Receiver address		CNVIS_004 - NCA5-Most. 55 Robert Street, Jesm		(a) where	Y is selected - enter the representative dist		in (Dell OZA).			
Select area ground type		55 Hobert Street, Jesm Developed settlements (urban :		(b) where	N is selected - go to step #7					
Select type of background noise l		User Input		7. For the scenario	(e.g. shallow excavation), select plant from	n the drop-down	list in cells A28 t	o A47 (e.g. dump tru	cks + excavator	).
percorage or passaground noise i	mpu	- Oser input			uantity for each selected plant in cells D28 N is selected from step #6 - enter the distar			-l+ i!!- F20 t-	E47	
-		nepresentative Noise	User Input	(c) where	N is selected from step #0 - enter the distar	nce to receiver to down list in cells	r each individual F28 to F47, Solii	plant in cells 628 to I barrier can be in the	E47. e form of mad ci	utting, solid construction hoarding, acoustic
Noise area categors		Enuironment	oser input	curtain, tir	nber lapped and capped fence, shipping co	ntainer, site offic	e, etc. Please no			
leoise area category	T 000		55	8. Identify the leve	l above background and/or noise mangeme	ent level (see row	rs 57 to 62).	waa aa Taraa aa		
BBL or Lase Background level (dB(A))	Day		51		element standard mitigation measures when e 'Is there line of sight to receiver' drop-dow		asonable. Includ	e any shielding imple	emented as part	of the standard mitigation measures by changing
HBL OF LASS BACKGROUNG level (dB(A))	Evening				e is there line of sight to receiver drop-dow plement feasible and reasonable additional		( 6	2 to 85)		
1	Night		41	11. Document a si	ummary report detailing:	i minganon meas	dies (see lows c	13 10 00).		
	Day		65	(a) project	description (including location, duration, ho	ours of work, con	struction method	lology, plant, potenti	ally impacted re-	ceivers, etc.).
LAss(15minuts) Noise mangement level	Day (OOHV)		60	(b) backgr	ound noise levels.					
(dB(A))	Evening		56	(c) noise r	management levels .					
4	Night		46		led noise levels for each time period. disturbance affected distance for night work					
				(f) mitigati	on measures.	<b>.</b>				
Is all plant at the same representative receiver? Y/N	distance to the	Y			nember responsible for implementing mitiga					2 Mars 2000 - E 20 - 20
Representative distance (	mì	90	All at Representative	Ristance hasis Please cont	noise management levels for other noise-stact a Roads and Maritime noise speciliast f	ensitive busines: for more informat	ses not identified ion)	in the Construction	Noise Estimator	should be investigated on a project-by-project
riepresentative distance (	,		1	Lasis. I lease coil	lact a riceus and Manuffe floise specifiast i	or more imornia	iony			
Type/ model plant (See Sources Sheet)	SVL Lass (dB(A))	SPL @7m (dB(A))	Quantity	Individual distance to receiver (m)	Is there line of sight to receiver? Y/N	Quantity correction (dBA)	Shielding correction (dBA)	Distance used in calculation (m)	n SPL (dB(A))	
Light vehicles	85	60	2		No (behind substantial solid barrier)	3	-10	90	29	
Water oart	107	82	1		No (behind substantial solid barrier)	0	-10	90	48	
Line Driller	107	82	1		No (behind substantial solid barrier)	0	-10	90	48	
					Yes	0	0		-888	
R.					Yes	0	0		-888	
					Yes	0	0		-888	
					Yes Yes	0	0		-888 -888	
					Yes Yes	0	0		-888	
					Yes	0	0		-888	
					Yes	0	0		-888	
						0	0		-888	
					Yes					
<u>E</u>					Yes	0	0		-888	
					Yes	0	0		-888	
					Yes	0	0		-888	
					Yes	0	0		-888	
Richard Control of the Control of th				1	Yes	0	0		-888	

#### +15 NML

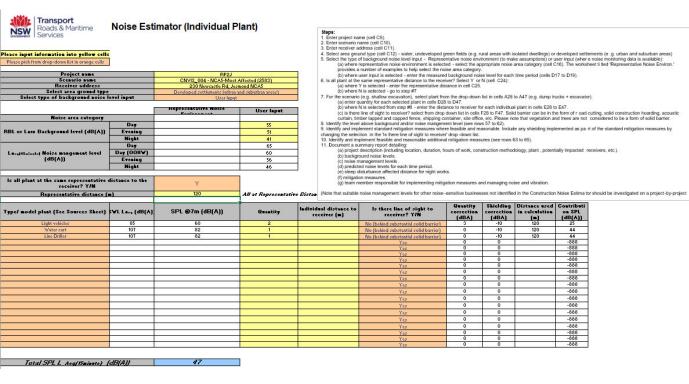
Total SPL L Aeg(15minute) (dB(A))



+25 NML    Transport   Roads & Maritime   Services		imator (Individual	Plant)	5. Select the type (a) where	name (cell C10).	ntative noise envi ed - select the ap	ronment (to mak propriate noise a	re assumptions) or u	ser input (where	noise monitoring data is available):
Project name		BP2.I		provides a	a number of examples to nelp select the no user input is selected - enter the measured	se area category background nois	se level for each	time period (cells D	17 to D19).	
Scenario name		CNVIS 004 - NCA5-Mos	st Affected (2564)	6. Is all plant at th	e same representative distance to the recei	ver? Select Y or	N (cell C24):	8 8	100	
Receiver address		55 Robert Street, Jes	mond NCA5	(a) where	Y is selected - enter the representative dis-	ance in cell C25.				
Select area ground type		Developed settlements (urba			o (e.g. shallow excavation), select plant from	n the dron-down	list in calls A28 s	n A47 (e.a. dumn tr	ucks + avcavator	eV
Select type of background noise	level input	User Inpu	it		quantity for each selected plant in cells D28		vens A20 I	with the fact of t	T ENGAVATOR	r.
		nepresentative Noise	User Input	(b) where	N is selected from step #6 - enter the dista e line of sight to receiver? select from drop	nce to receiver fo down list in cells	F28 to F47. Soli	d barrier can be in th	he form of road o	utting, solid construction hoarding, acoustic
Noise area category				curtain, tir	mber lapped and capped fence, shipping or el above background and/or noise mangem	ntainer, site offic	e, etc. Please no	ote that vegetation a	nd trees are not	considered to be a form of solid barrier.
	Day		55	9 Identify and im	el above background and/or noise mangem nlement standard mitination measures wher	ent level (see row e feasible and re	asonable Includ	le any shielding imp	lemented as nat	t of the standard mitigation measures by changing
RBL or Lase Background level (dB(A))	Evening	ń	51	the selection in th	ne 'Is there line of sight to receiver' drop-dow	vn list.				
	Night		41		nplement feasible and reasonable additiona	I mitigation meas	ures (see rows 6	83 to 65).		
	Day	<u> </u>	65		ummary report detailing: t description (including location, duration, h				tially increased an	and an art of
LAss(15minute) Noise mangement level	Day (OOHV)		60		round noise levels.	Juis of Work, Coll	struction method	lology, plant, poten	traily impacteure	ceivers, etc.).
(dB(A))	Evening	7	56	(c) noise	management levels .					
	Night		46	(d) predic	ted noise levels for each time period.					
	reigne	8	70		disturbance affected distance for night work ion measures.	5.				
Is all plant at the same representative receiver? Y/N	distance to the	Y		(g) team r	member responsible for implementing mitiga				Noise Estimate	r should be investigated on a project-by-project
Representative distance (	m)	11	All at Representative	Distance basis. Please con	tact a Roads and Maritime noise speciliast	for more informat	ion)	an are construction	I WOISE ESUITARO	should be investigated on a project-by-project
1 2 2		SPL @7m (dB(A))	Quantity	Individual distance to receiver (m)	Is there line of sight to receiver? Y/N	Quantity correction (dBA)	Shielding correction (dBA)	Distance used in calculation (m)	n SPL (dB(A))	
Light vehicles	85	60	2		No (behind substantial solid barrier)	3	-10	11	49	
Water cart	107	82	1)		No (behind substantial solid barrier)	0	-10	- 11	68	
Line Driller	107	82	1		No (behind substantial solid barrier)	0	-10 0	- 11	-888	
					Yes Yes	0	0		-888	
					Tes Yes	0	, o	1	-888	1
					Yes	0	0		-888	
					Yes	0	0		-888	1
	6	2			Yes	0	0		-888	1
					Yes	0	0		-888	1
					Yes	0	0		-888	
		9			Yes	0	0		-888	
					Yes	0	0		-888	1
					Yes	0	ő		-888	1
					Yes	0	0		-888	
					Yes	0	0		-888	1
		ė.			Yes	0	0		-888	1
					Tes Yes	0	0		-888	1
		8			Yes	0	0	<b>-</b>	-888	1
					Yes	ů	0	<b>I</b>	-888	R
					162		0	1	*000	I .

#### **BH2583**

#### WORST - CASE



NSW Soverese Services	Noise Esti	mator (Individual P	lant)		Steps: 1. Enter project nat 2. Enter scenario n 3. Enter receiver at	name (cell C10).					
ease input information into yellow cells					4. Select area grou	und type (cell C12) - water, undeveloped of	reen fields (e.g. r	rural areas with	isolated dwellings) or	developed settl	ements (e .g. urban and suburban are
Please pick from drop-down list in orange cells	]				(a) where r	of background noise level input - Represe representative noise environment is selec-	led - select the ap	ppropriate noise	ke assumptions) or a area category (cell (	user input (wher 016). The works	e noise monitoring data is available): heet ti tled 'Representative Noise Envi
Project name		RP2J		1		number of examples to help select the no user input is selected - enter the measure			Since merical deaths D	47 to D401	
Scenario name		CNVIS_004 - NCA5-Most	Affected (2583)	-		user input is selected - enter the measure e same representative distance to the rece			time period (cells L	17 to D19).	
Receiver address		230 Newcastle Rd, Jest				Y is selected - enter the representative di					
Select area ground type		Developed settlements (urban a				N is selected - go to step #7					
Select type of background noise l	level input	User Input	and the second second			(e.g. shallow excavation), select plant fro		list in cells A28	to A47 (e.g. dump tr	ucks + excavato	e).
	_					puantity for each selected plant in cells D2 N is selected from step #6 - enter the dist		or each individu	al plant in cells E29 t	o E47	
		Representative moise	User Input		(c) is there	in is selected from step wo - enter the disc tine of sight to receiver? select from drop	down list in cells	F28 to F47 Sol	id harrier can be in th	ne form of r oad	cutting solid construction hoarding a
Moise area category				7	curtain, tim	nber lapped and capped fence, shipping of	ontainer, site office	e, etc. Please n	ote that vegetation a	nd trees are not	considered to be a form of solid barri
	Day		55		8. Identify the level	l above background and/or noise mangen	ent level (see row	ws 57 to 62).			
BL or Lass Background level (dB(A))	Evening		51	1		lement standard mitigation measures whe			de any shielding imp	lemented as pa	rt of the standard mitigation measures
,,,,,,,,,	Night		41	-		ction in the 'Is there line of sight to receive element feasible and reasonable addition			en i- en		
	Day		65	-	11 Document a su	ipiement reasible and reasonable addition ummary report detailing:	si minganon meas	sures (see rows	63 10 60).		
			- 00			attending report devices.	ours of work con	struction metho	dology, plant, poten	tially impacted in	eceivers etc.)
Largesminner Noise mangement level				_	(a) project	description (including location, duration, h					
	Day (OOHW)		60	7	(a) project (b) backgro	ound noise levels.					
(dB(A))	Evening		56		(a) project (b) backgro (c) noise m	ound noise levels. management levels .					
					(a) project (b) backgro (c) noise m (d) predicte	round noise levels. management levels . red noise levels for each time period.					
	Evening Hight	Y	56 46		(a) project (b) backgr (c) noise m (d) predict (e) sleep d (f) mitigatic (g) team m	ound noise levels. management levels . ed noise levels for each time period. sisturbance affected distance for night wor on measures. nember responsible for implementing mittig	ks. ation measures a	and managing n			
(dB(A))	Evening Night	Y 30	56 46	re Bistan	(a) project (b) backgr (c) noise m (d) predict (e) sleep d (f) mitigatic (g) team m	ound noise levels. nanagement levels. ed noise levels for each time period. disturbance affected distance for night wor on measures.	ks. ation measures a	and managing n		n Noise Estima tr	
(dB(A))  Is all plant at the same representative receiver? YIN  Representative distance for	Evening Night  distance to the	90 SPL @7m (dB(A))	56 46	Individ	(a) project (b) backgr (c) noise m (d) predict (e) sleep d (f) mitigatic (g) team m	ound noise levels. management levels . ed noise levels for each time period. sisturbance affected distance for night wor on measures. nember responsible for implementing mittig	ks. ation measures a	snd managing no sees not identified Shielding correction (dBA)	Distance used in calculation	Contributi on SPL (dB(A))	
(dB(A))  Is all plant at the same representative receiver? YIN  Representative distance (	Evening Night  distance to the  a)  SWL Lang (dB(A))	30 SPL @7m (dB(A))	56 46 All at Representation	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels.  management levels be denoise levels for each time period.  sistumbane affected distance for night wor on measures.  member responsible for implementing mitig noise management levels for other noise  Is there line of sight to	estion measures a sensitive busines  Quantity correction (dBA)	shedding or specific to the state of the sta	Distance used in calculation	Contributi on SPL (dB(A))	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance for the same service of the same servi	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46 All at Representation	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels.  anagement levels de noise levels for each time period.  Saturbance affected distance for night wor on measures.  member responsible for implementing mitig.  noise management levels for other noise  Is there line of sight to receive? YTM	ks. sation measures a sensitive busines  Quantity correction (dBA)	shelding correction (dBA)	Distance used in calculation (m) 30 90	Contributi on SPL (dB(A)) 23 48	
(dB(A))  Is all plant at the same representative receiver? Y/M  Representative distance [see Sheet]  Light vehicles	Evening Night  distance to the  a)  SWL Lang (dB(A))	30 SPL @7m (dB(A))	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels.  management levels de noise levels for each time period.  det noise levels for each time period.  deturbance affected desaince for night wor  n measures.  It is the period of the present of the present of the period of th	ks. sation measures a sensitive busines  Quantity correction (dBA) 3 0	sand managing no sees not identifie Shielding correction (dBA) -10 -10 -10 -10	Distance used in calculation	Contributi on SPL (dB(A)) 23 48 48	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance (representative distance (represe	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels.  management levels to each time period en noise levels for each time period en noise levels for each time period on measures.  member responsible for implementing militancies management levels for other noise for the noise management levels for other noise.  Is there line of sight to receive? YVM.  No (behind substantial solid barrier).  No (behind substantial solid barrier).  No (behind substantial solid barrier).	estion measures a sensitive busines  Quantity correction (dBA) 0 0	Shielding correction (dBA) -10 -10 0	Distance used in calculation (m) 30 90	Contributi on SPL (dB(A)) 23 48 48	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance (r  yper model plant (See Sources Sheet)  Light vehicles  Water cart	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels.  amagement levels de noise levels for each time period.  deturbance affected distance for night wor on measures.  In the company of the c	Reactive corrections 0 0 0 0 0 0	Shielding correction (dBA) -10 -10 0 0	Distance used in calculation (m) 30 90	Contributi on SPL (dB(A)) 29 48 48 -888 -888	
(dB(A)) Is all plant at the same representative receiver? Y/N Representative distance for the same properties of the same representative of the same r	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels.  management levels de noise levels for each time period disorbere effected disorbere for night wor nember responsible for implementing milit encircle experience in the second process of the second proc	sation measures a sensitive busines  Quantity correction (dBA)  0  0  0  0	sises not identifie  Shielding correction (dBA) -10 -10 0 0 0 0	Distance used in calculation (m) 30 90	Contributi on SPL (dB(A)) 29 48 48 48 -888 -888	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance (r  yper model plant (See Sources Sheet)  Light vehicles  Water cart	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels a management levels of noise hevels for each time period, and noise levels for each time period, and noise levels for each time period. On measures, member responsible for implementing mility noise management levels for other noise.  Is there line of sight to receive from the noise management levels for other noise to receive? YIM.  No (behald evolutional solid barrier).  No (behald evolutional solid barrier).  No (behald evolutional solid barrier).  Yes  Yes  Yes	ks. sation measures a sensitive busines  Quantity correction (dBA) 3 0 0 0 0 0	Shielding correction (dBA) -10 -10 -0 0 0	Distance used in calculation (m) 30 90	Contributi on SPL (dB(A)) 29 48 48 -888 -888 -888	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance (r  yper model plant (See Sources Sheet)  Light vehicles  Water cart	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels,  management levels of noise levels,  and noise levels for each time period  discutance affected discurse for night work  member responsible for implementing mitig  noise management levels for other noise   Is there line of right to  receiver? Y/M  Not (behind substantial solid barrier) No (behind substantial solid barrier) No (behind substantial solid barrier) Yes Yes Yes Yes	Ass.  Sensitive business a sensitive business (dBA)  0  0  0  0  0  0	shelding correction (dBA) -10 -10 0 0 0 0 0 0	Distance used in calculation  (m)  30  90	Contributi on SPL (dB(A)) 29 48 48 -888 -888 -888 -888 -888	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance (representative distance (represe	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels  management levels  ed noise levels for each time period  ed noise levels for each time period  ed noise levels for each time period  ed noise levels for experimental  management levels for other noise  list there line of sight two  receiver? Y/M  No (behind eubstantial zelid barrier)  No (behind eubstantial zelid barrier)  No (behind eubstantial zelid barrier)  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y  Y	Res.  Bation measures a sensitive busines  Resatity correction (dBA)  3  0  0  0  0  0  0	sand managing no sees not identifie correction (dBA) -10 -10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Distance used in calculation  (m)  30  90	Costributi os SPL (dB(A)) 29 48 48 -888 -888 -888 -888 -888 -888	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance (representative distance (represe	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels, management levels de noise levels, management levels de noise levels for each time period disabutance effect disabutance for night wor nember responsible for implementing milities noise management levels for other noise la there is no other noise state of the control of t	Ass.  Sensitive business assensitive business (dBA)  Quantity correction (dBA)  0  0  0  0  0  0  0  0	shelding correction (dBA) -10 -10 0 0 0 0 0 0 0	Distance used in calculation  (m)  30  90	Coatribati on SPL (dB(A)) 29 48 48 -888 -888 -888 -888 -888 -888	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance (r  'ypel model plant (See Sources Sheet)  Light vehicles  Water cost	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels, management levels to another period and noise levels for each time period and noise levels for each time period on measures, member responsible for implementing miliginoise management levels for other noise management levels for other noise to the noise management levels for other noise to the noise management levels for other noise to the noise management levels for other noise which was a second of the noise management levels for other noise management leve	sation measures a sation measures as sation measures as sensitive business (dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	shedding sees not identified to the correction (dBA) -10 -10 -0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Distance used in calculation  (m)  30  90	Coatributi on SPL (dB(A)) 29 48 48 48 -888 -888 -888 -888 -888 -888	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance (r  yper model plant (See Sources Sheet)  Light vehicles  Water cart	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels, management levels and noise levels, but an amagement levels for each time period disastructure. Effect disastructure first work and the second of the s	Results of the state of the sta	and managing n sses not identificate  Skielding correction (dBA) -10 -10 0 0 0 0 0 0 0 0	Distance used in calculation  (m)  30  90	Coatributi on SPL (dB(A)) 29 48 -888 -888 -888 -888 -888 -888 -888	
(dB(A)) Is all plant at the same representative receiver? Y/N Representative distance for the same properties of the same representative of the same r	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels, management levels to another period, and noise levels for each time period, and noise levels for each time period, and noise levels for sight wor on measures.  It is there there is the period of the noise management levels for other noise management levels for other noise to the noise management levels for other noise to the noise management levels for other noise to the noise management levels for other noise was the noise management levels for other noise m	dation measures a sensitive business essensitive business essensitive business expensitive bu	sistential managing n sistential managing n sistential managing n sistential managing n sistential managing managing n sistential ma	Distance used in calculation  (m)  30  90	Coatributi on SPI. (dB(A)) 23 48 48 48 -888 -888 -888 -888 -888 -888	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance for the same service of the same servi	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels, management levels de noise levels, management levels de noise levels for each time period disautrance affected disaurce for night wor nember responsible for implementing militie noise management levels for other noise.  Is there file of sight to receive the noise to other noise the noise disaurce of the noise to the noise the noise that	Ass.  Sensitive business  Gashity correction  (dBA)  3  0  0  0  0  0  0  0  0  0  0  0  0	and managing n ssees not identification of the control of the cont	Distance used in calculation  (m)  30  90	Costributi os SPL (dB(A)) 29 48 48 -888 -888 -888 -888 -888 -888 -8	
(dB(A))  Is all plant at the same representative receiver? Y/N  Representative distance for the same service of the same servi	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels, management levels of noise levels, management levels for each time period, and noise levels for each time period, and noise levels for sight wor on measures.  It is there line of sight to other noise management levels for other noise loss for other noise management levels for the noise management levels for other noise manage	ks.  Quality Quality Correction (dBA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	sees not identified and managing n sees not identified (dBA) -10 -10 -10 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -0	Distance used in calculation  (m)  30  90	Costributi on SPL (dB(A)) 29 48 48 -888 -888 -888 -888 -888 -888 -8	
(dB(A)) Is all plant at the same representative receiver? Y/N Representative distance for the same properties of the same representative of the same r	Evening Night  distance to the	90 SPL @7m (dB(A)) 60 82	56 46  All at Representation  Quantity 2	Individ	(a) project (b) backgr (c) noise ri (d) predicts (e) sleep d (f) mitigatic (g) team m (Note that suitable	ound noise levels, management levels de noise levels, management levels de noise levels for each time period disautrance affected disaurce for night wor nember responsible for implementing militie noise management levels for other noise.  Is there file of sight to receive the noise to other noise the noise disaurce of the noise	Ass.  Sensitive business  Gashity correction  (dBA)  3  0  0  0  0  0  0  0  0  0  0  0  0	and managing n ssees not identification of the control of the cont	Distance used in calculation  (m)  30  90	Costributi os SPL (dB(A)) 29 48 48 -888 -888 -888 -888 -888 -888 -8	
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## +15 NML Transport Roads & Maritime Services Staps: 1. Enter project name (cell C9). 2. Enter scenario name (cell C10). 3. Enter scenario name (cell C10). 5. Enter scenario name (cell C10). 6. Enter scenario (cell C10). 6. Enter scenario (cell C10). 6. Enter scenario (cell C10). 7. For the scenario (cell C10). 8. Enter scenario (cell C10). 8. En Noise Estimator (Individual Plant) Please input information into yellow cells Project name Scenario name Receiver address Select area ground type Select type of background noise level in RP2J CNVIS\_004 - NCA5-Most Affected (2583) 230 Newcastle Rd, Jesmond NCA5 Developed settlements (urban and suburban areas) Representative Moise User Input Noise area category RBL or Lass Background level (dB(A)) La-q115=:--1-1 Noise mangement level (dB(A)) Is all plant at the same representative distance to the receiver? Y/M Representative distance [m] All at Representative Distar (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estima for should be investigated on a project-by-project SPL @7m (dB(A))

Total SPL L. Acq((Smisste) [dB(A)] 61

Noise Estimator (Individual Plant)  Frequency (Individual Plant)					30				-	
Figure part information into yallow calls  Project size  CNTL 004 - NSCA-Finds Affected (ESS)  Security size  Notice was extended.  Notice was extended.  Notice was extended on the size of t	NSW Roads & Maritime	Noise Esti	mator (Individual F	Plant)	Enter project na	ime (cell C9).				
A sheet was prout byte (cell CIZ) - water, underdeped gene feels (e.g. read areas with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and with holded dealings) of redeslegat extrement (e.g. guide and extrement (e.g. guide) of the provided and extrement (e.g. guide and extrement (e.g.										
Place   Plac	ease input information into vellow cell	4					reen fields (e.g. r	ural areas with it	solated dwellings) or	developed settlements (eg. urban and suburban ar
Project same   Project										
Project same:    Colver for KAA-Pilled Arthrocal (1953)		-							area category (cell t	716). The worksheet tilled 'Representative Noise En
Receiver address Sieted area greenally dependent and from an adjustment area by a dependent and from a dependent and from an adjustment area by a dependent and from the d					(b) where	user input is selected - enter the measured	background noi	se level for each	time period (cells D	17 to D19).
Select yes of background noise level injust    Select yes of background noise level injust   Select yes of backgro			CNVIS_004 - NCA5-Most	Affected (2583)						
Select type of background asize level input    Comment							tance in cell C25			
Company   Comp							m the drop-down	list in cells A28	to A47 (e.g. dump tr	ucks + excavator).
Noise area extegory  BL or Lass Background terel (dB(A))  Creating  La_stratistical Noise area extended (dB(A))  La_stratistical Noise area extended (dB(A))	Taract type or pacaground noise		User input		(a) enter o	quantity for each selected plant in cells D28	to D47.			
Noise area category   State   Day		Г	Representative moise	User laput						
By C Less Background level (dB(A))  Evening  5   1	Noise area category		Fasiana		(c) is there	e line of signt to receiver? select from drop inber lapped and capped fence, shinning or	ntainer, site office	e, etc. Please re	d pamer can be in that the that vegetation as	ie form or r load cutting, solid construction hoarding, : nd trees are not liconsidered to be a form of solid har
Second level (dB(A))		Day		55	8. Identify the leve	l above background and/or noise mangem	ent level (see row	rs 57 to 62).		
Might   41   10   10   10   10   10   10   10	tBL or Less Background level (dB(A))							asonable. Includ	te any shielding impl	emented as part of the standard mitigation measure
Le_testimited Noise management level (dB(A))    Comparison   Compariso			<i>C</i>		changing the select	ction in the 'Is there line of sight to receive	drop -down list.	uma fama saun l	92 to 951	
Captification   Captificatio							i mingation meas	ures (see rows)	03 10 00).	
Case   Section					(a) project	description (including location, duration, h	ours of work, con	struction method	dology, plant, potent	ially impacted receivers, etc.).
Saliplast at the same representative distance to the receiver YIM   Representative distance (a)										
Company   Section   Sect	(45(11))									
(g) team member responsible for implementing miligation measures and managing roles and vistorion.  (g) team member responsible for implementing miligation measures and managing roles and vistorion.  (g) team member responsible for implementing miligation measures and managing roles and vistorion.  (g) team member responsible for implementing miligation measures and managing roles and vistorion.  (g) team member responsible for implementing miligation measures and managing roles and vistorion.  (g) team member responsible for implementing miligation measures and managing roles and vistorion.  (g) team member responsible for implementing miligation measures and managing roles and vistorion.  (g) team member responsible for implementing miligation measures and managing roles and vistorion.  (g) team member are managing roles and vistorion for the Construction foliated in the Construction foliated distriction by the construction of sight roles are significant to the construction foliated distriction.  (g) team member are managing roles are vistorion.  (g) team member are managing roles are vistorion.  (g) team member are managing roles are vistorion foliated distriction.  (g) team member are vistorion foliated distriction.  (g) team member are visitorion foliated distriction.  (g) team team for the Construction foliated distriction.  (g) team team foliated distriction.  (g)		nigut	8	40			S.			
SPLEATE   SPLLA.   (dB(A)   SPLEATE   (dB(A))   (dB(A)		distance to the	Y		(g) team n	nember responsible for implementing mitig				
SPL   Annual   Annual   SPL   Annual   A	Representative distance	[ <b>-</b> ]	11	All at Representati	re Distan (Note that suitable	noise management levels for other noise -	sensitive busines	ses not identifie	d in the Construction	Noise Estima tor should be investigated on a project
Light validation   S5   60   2   No (Schind exbertantial) colic barrier;   0   10   11   43	Type/ model plant (See Sources Sheet)	SVL Lary (dB(A)	SPL @7m (dB(A))	Quantity				correction		
No (belief with the Drifter   10						receiver? Y/N		(dBA)	(=)	
Yes						No (behind substantial solid barrier)	(dBA)	-10	11	(dB(A)) 49
Ye2	Water cart	107	82	1		No (behind substantial solid barrier) No (behind substantial solid barrier)	(dBA) 3 0	-10 -10	11	(dB(A)) 43 68
Yes	Water cart	107	82	1		No (behind substantial solid barrier) No (behind substantial solid barrier) No (behind substantial solid barrier)	(dBA) 3 0	-10 -10 -10	11	(dB(A)) 43 68 68
Yes	Water cart	107	82	1		No (behind substantial solid barrier) No (behind substantial solid barrier) No (behind substantial solid barrier) Yes	(dBA) 3 0 0	-10 -10 -10 0	11	(dB(A)) 49 68 68
Yes         0         0         -688           Yes         0         0         -686	Water cart	107	82	1	(-)	No (behind substantial solid barrier) No (behind substantial solid barrier) No (behind substantial solid barrier) Yes Yes	(dBA) 3 0 0 0 0	-10 -10 -10 0	11	(4B(A)) 49 68 68 -888
Yes         0         0         -588           Yes         0         0         -588           Yes         0         0         -588           Yes         0         0         -508           Yes         0         0         -568           Yes         0         0         -568           888         -688         -688	Water cart	107	82	1	(-)	No (behind substantial solid barrier) No (behind substantial solid barrier) No (behind substantial solid barrier) Yes Yes Yes	(dBA) 3 0 0 0 0 0 0 0	-10 -10 -10 0 0	11	(dB(A)) 43 68 68 68 -686 -686 -888 -888
Yes         0         0         -888           Yes         0         0         -886           Yes         0         0         -888           Yes         0         0         -888           Yes         0         0         -868           Yes         0         0         -868	Water cart	107	82	1	(2)	No (behind substantial solid barrier) No (behind substantial solid barrier) No (behind substantial solid barrier) Yes Yes Yes Yes	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0	11	(dB(A)) 43 43 68 68 68 68 -888 -888 -888 -888 -888
Yes         0         0         -888	Water cart	107	82	1		No (behind substantial solid barrier) No (behind substantial solid barrier) No (behind substantial solid barrier) Yee Yee Yee Yee Yee Yee Yee Yee	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0 0	11	(dB(A)) 43 56 68 68 688 688 688 688 688
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Yes 0 0 0 -888	Water cart	107	82	1		No (behind zubstaatial zolid barrier) Yes	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 -10 0 0 0 0 0 0 0	11	(dB(A)) 45 56 68 686 -888 -888 -888 -888 -888 -88
Yes 0 0 -888  Yes 0 0 0 -888	Water cart	107	82	1		No (behind substantial colid barrier) Yes	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0 0 0 0 0	11	(48(A)) 43 66 68 68 -0808 -0808 -0808 -0808 -0808 -0808 -0808 -0808 -0808 -0808 -0808
Yes 0 0	Water cart	107	82	1		No (behind substantial colid barrier) Yes	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0 0 0 0 0 0 0	11	(dB(A)) 45 55 56 -606 -606 -606 -606 -606 -606 -6
Yes 0 0 -888 Yes 0 0 -888 Yes 0 0 -888	Water cart	107	82	1		No (behind substantial colid barrier) Yes	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11	(40(A)) 43 66 68 68 -0808 -0808 -0808 -0808 -0808 -0808 -0808 -0808 -0808 -0808 -0808
Yes 0 0 -888 Yes 0 0 -888	Water cart	107	82	1		No (behind substantial colid barrier) Yes	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11	(dB(A)) 43 66 65 66 -6866 -6866 -6866 -6866 -6866 -6866 -6866 -6866 -6866 -6866 -6866 -6866 -6866 -6866 -6866
Yes 0 0 -888	Water cart	107	82	1		No (behind substantial colid barrier) Yes	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11	(40(A)) 43 66 68 68 -686 -686 -686 -686 -686 -686
	Water cart	107	82	1		No (behind substantial colid barrier) Yes	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11	(dB(A)) 45 66 68 686 -8866 -8866 -8866 -8866 -8866 -8866 -8866 -8866 -8866 -8866
Yes 0 0 -888	Water cart	107	82	1		No (behind substantial colid barrier)  You (behind substantial barrier)  You (behind substantial colid barrier)  You (behind substantial colid barrier)  No (behind substantial colid barrier)  You (behind substantial colid barrier)  No (behind substantial colid barrier)  You (behind substantial colid barrier)  No (behind substantial colid barrier)  You (behind substantial colid barrier)	(dBA) 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-10 -10 -10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11	(dB(A)) 49 60 60 60 60 60 60 60 60 60 60 60 60 60