

RP2J Project OOHW application form

Out of hours work approval request form

No:	Notification date:	Approval date:	Project:
07	31/01/2023	6/02/2023	RP2J
A. Contact details	Name	Mobile number	Email
Contractor Environmental Site Representative			
Contractor Construction Manager			
Contractor Foreman			
Contractor Project Engineer			

B. Details of work:

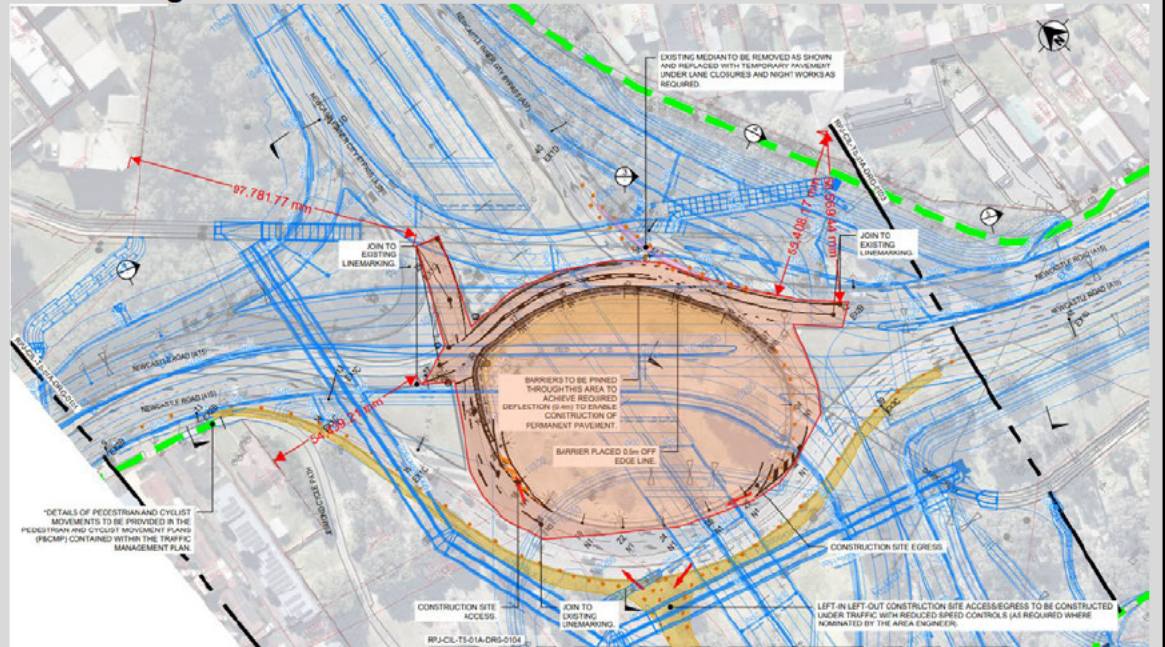
Include a map showing location of work extent and nearest sensitive receivers

Location /
chainages:

Nearest receivers are marked in red on Figure 1.

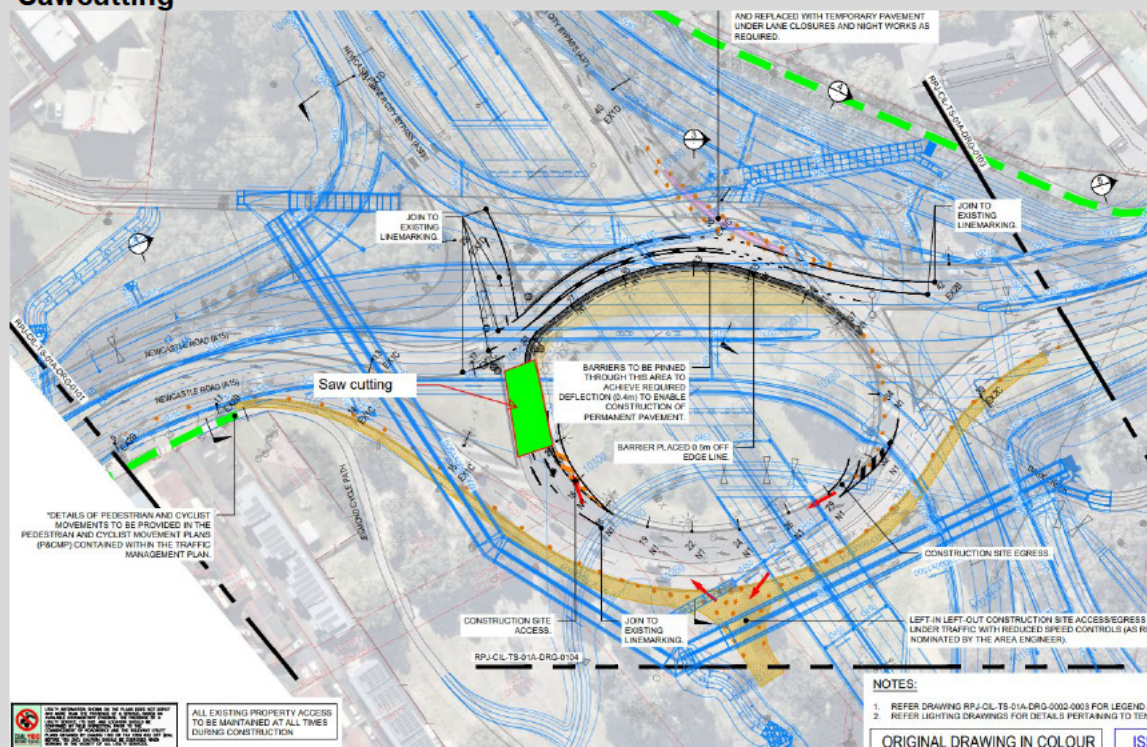
Newcastle Link Road, Jesmond Roundabout – see below for areas for linemarking, barrier install and sawcutting.

Linemarking and barriers



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Sawcutting



Signage layout is shown in Appendix A.

NCA/s:

4 and 5

Description of works – also include a brief description of the sequence of activities:

- Transport and installation of concrete barriers
- Fixing of barriers to pavement
- Linemarking and signage
- Relocating traffic loops.

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Machinery/ plant to be used	<p>Activity 1 - Signage:</p> <ul style="list-style-type: none"> - Vacuum truck (only used more than 20m from receivers) - HV's - LV's - Hand Tools. <p>Activity 2 - Barrier Installation:</p> <ul style="list-style-type: none"> - HV's - Excavator - LV's - Lighting Towers (Generator in noise calculator with SWL 98) - Rattle Gun (Pneumatic hammer in calculator with SWL 110). <p>Activity 3 - Linemarking:</p> <ul style="list-style-type: none"> - Water Blaster (concrete saw used in the noise calculator with a SWL 117) - HV's - LV's - Hand Tools. <p>Activity 4 – Sawcutting</p> <ul style="list-style-type: none"> - Saw cutter - LV - Lighting towers. <p>Activity 5 – Relocating traffic loops</p> <ul style="list-style-type: none"> - Concrete saw - LV - HV. <p>Note: All activities will be completed separately.</p>
Traffic control measures required:	Shoulder/Lane Closures, PTCD's (Potable Traffic Lights), Speed Reductions
Lighting required:	Lighting Towers
Proposed dates:	<p>6/02/2023 – 24/02/2023 (Sunday to Thursday working week)</p> <p>It is proposed to work a total of 3 nights a week for 2 weeks between 6/2 and 16/2, with a 1 week redundancy period between 19/2 and 24/2.</p> <p>Duration respite would apply to the signage installation in the locations where a vacuum truck is used and for the linemarking. Each signage location would take up to 2 hours to hand dig/investigate using a vacuum truck over 2 nights for all locations. The third night would involve installing and fixing the signs.</p> <p>Linemarking removal and placing would take 1 night and placing barriers would take up to 2 nights.</p>
Proposed times:	1800-0600
Justification - why does work need to occur outside of standard construction hours? (attach support information as required)	<p>Due to the constraints around required traffic controls and associated ROL's, the proposed works on and around the Jesmond roundabout are required to be on nightshift. This OOH eliminates a number of safety risks associated with the works associated with working in and adjacent to traffic lanes and cutting down trees in close proximity to the road.</p>

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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_{Aeq} (15 minute))	No
Risk factor category (refer section 4.3 of OOHW protocol):	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 C). A summary of the outputs of this assessment are presented below as Table 1 with an overlay of impacted areas provided within Figure 2, 3 and 4.

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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 around each location that a vacuum truck is used to investigate signage locations. Ensure noise blanket joins are overlapped and secured firmly against each other.
- 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.
- OOHW Period 2 respite is considered appropriate for linemarking when the water blaster is used. Out of hours construction noise will be limited to no more than two consecutive nights of water blasting affecting any one receiver. If water blasting exceeds 2 consecutive nights, 6 nights of respite would be required.
- OOHW Period 2 respite is considered appropriate for signage installation when using a vacuum truck. Out of hours construction noise will be limited to no more than two consecutive nights impacting any one receiver. If signage installation using a vacuum truck exceeds 2 consecutive nights, 6 nights of respite would be required.
- Duration respite would apply during installing barriers on the eastern side of the roundabout and would not exceed 3 nights in one week of impacting the same receiver.
- During barrier install works, the rattle gun and franna/excavator cannot operate at the same time and must be switched off.
- A vacuum truck will only be used for signage installation when more than 20m from receivers on the western side of the roundabout, 10m from receivers on the east of the roundabout and 20m from receivers to the north of the roundabout. Area shown in green below illustrates the locations a vacuum truck can be used to stay less than 25dB above RBL.

A

Outline consultation undertaken for the proposed OOHW:

- 3 month look ahead distributed to the community on 11/01/2023. The February 3 month lookahead will be distributed the week of the 6/02/23 - Specific OOHW notice was delivered to sensitive receivers within the green line shown on Figure 2, 3 and 4 on 31/01/2023. Receivers 15-25dB(A) over NML are illustrated in Figure 2, 3 and 4 in orange. All sensitive receivers 15-25dB(A) over NML were doorknocked on 31/05/23 in accordance with the OOH protocol.

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)?

- OOHW Period 2 respite is considered appropriate for these works if linemarking using a water blaster or signage installation using a vacuum truck exceeds 2 consecutive nights impacting the same receiver.

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)?

- Geotech works (CNVIS 06) will be completed over 2 nights between the period of 29/1 – 31/1 and will not occur simultaneously to this works.
- No community agreements apply.

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

All tasks to be completed separately.

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

Comments:

- No impacts to non-residential receivers. Non-residential receivers in this location include churches, public schools and do not operate out of hours.

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

Comments:

- No vibratory equipment will be used for this task.

I. Review/ Endorsements

**Contractor
Community
Liaison
Representative**

Community notified -

Date: 31/01/2023 –
01/028/2023

Additional consultation requirements:

Door knocked 22 impacted receivers, letterboxed approximately 1000 properties.

Have the works been reviewed and endorsed?

Yes

Name:

Signature:

Date:

[REDACTED]

[REDACTED]

06/02/2023

Comments:

**Transport for
NSW
Environmental
Manager (or
delegate)**

Agreed mitigation measures:

Have the works been reviewed and endorsed?

Yes / No

Have the works been approved where neither low or high risk?

Yes / No

Name:

Signature:

Date:

[REDACTED]

[REDACTED]

06/02/2022

Comments:

**Transport for
NSW Project
Manager**

Have the works been reviewed and endorsed?

Yes / No

Have the works been approved where neither low or high risk?

Yes / No

Name:

Signature:

Date:

[REDACTED]

[REDACTED]

06/02/2023

Comments:

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**ER approval
(low risk
activities)**

Are the works approved?

Yes / ~~No~~

Name:

Signature:

Date:

[REDACTED]

[REDACTED]

6/2/2023

Comments:

**Planning
Secretary
approval (high
risk activities)**

Are the works approved?

Yes / No

Name:

Signature:

Date:

Comments:



Figure 1 – Location of most affected receivers (refer to Table 1)



Figure 2 – Predicted noise impacts – linemarking – water blaster (P2 10pm to 7am)



Figure 3 – Predicted noise impacts – barrier install (P2 10pm to 7am)



Figure 4 – signage

Green = >NML

Yellow = NML+5 & above

Orange = NML+15 & above

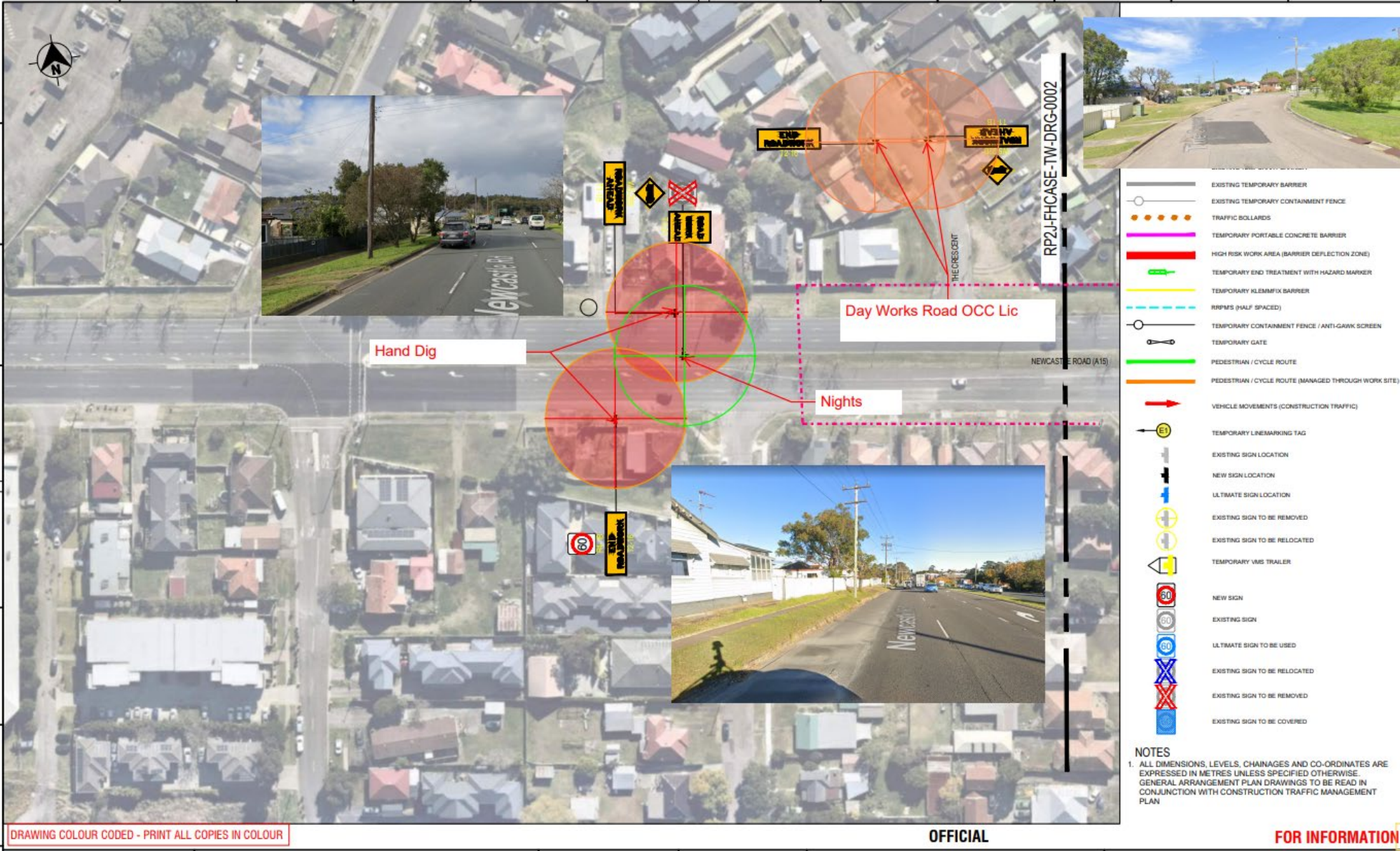
Red = NML+25 & above

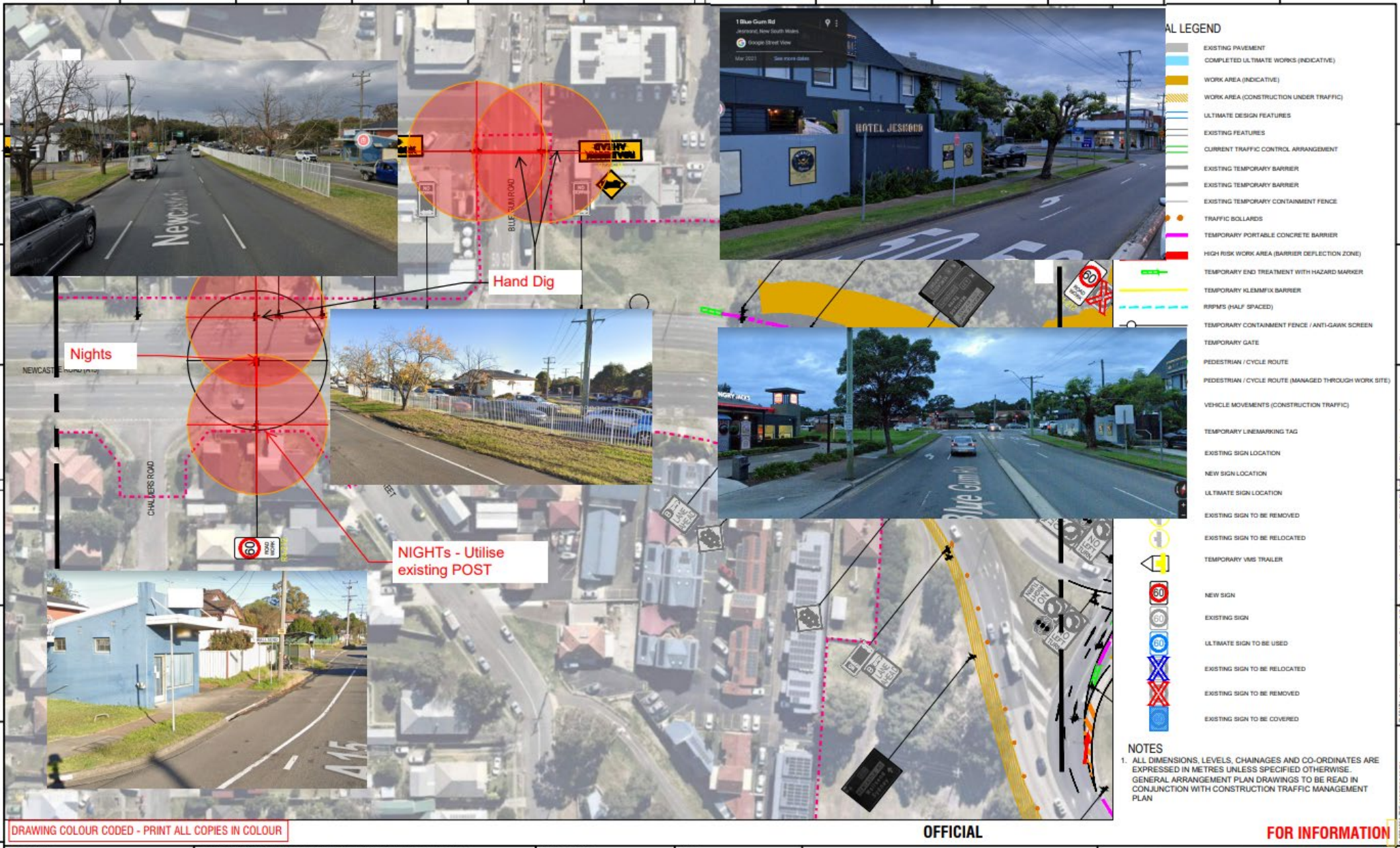
Figure 1 illustrates the locations of the nearest receivers outlined in Table 1.

Table 1 – Noise estimator output

Activity	Receiver	NCA	NML	dBA @ most affected	dBA above NML
Signage – Vacuum truck	R1092 (2 Crest Road, Jesmond)	4	41	66	25
Signage – hand tools	R1092 (2 Crest Road, Jesmond)	4		52	11
Signage – Vacuum truck	R1466 (234 Newcastle Road, Jesmond)	5	46	71	25
Signage – hand tools	R1466 (234 Newcastle Road, Jesmond)	5		58	12
Linemarking	R1231 (195 Newcastle Road Jesmond)	4	41	62	21
Barrier install	R1231 (195 Newcastle Road Jesmond)	4		55	14
Linemarking	R1466 (234 Newcastle Road, Jesmond)	5	46	68	22
Barrier install	R1466 (234 Newcastle Road, Jesmond)	5		60	14
Concrete saw	R1231 (195 Newcastle Road Jesmond)	4	41	63	P1 – 12
					P2 - 22

Appendix A – Signage layout plans





RP2J-FHCASE-TW-DRG-0004



Day SHIFT Local road

Days Shoulder closure

Noise blankets

Nights Vac truck

Noise blankets

Day SHIFT Local road

- TEMPORARY END TREATMENT WITH HAZARD MARKER
- TEMPORARY KLEIMP'S BARRIER
- ROADS (HARD SPACES)
- TEMPORARY CONTAINMENT FENCE (ANTI-GRAFFITI SCREEN)
- TEMPORARY DATE
- PEDESTRIAN / CYCLE ROUTE
- PEDESTRIAN / CYCLE ROUTE (MANAGED THROUGH WORK SITE)
- VEHICLE MOVEMENTS (CONSTRUCTION TRAFFIC)
- TEMPORARY UNMARKING TAG
- EXISTING SIGN LOCATION
- NEW SIGN LOCATION
- ULTIMATE SIGN LOCATION
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE RELOCATED
- TEMPORARY VISI-TRAILER
- NEW SIGN
- EXISTING SIGN
- ULTIMATE SIGN TO BE USED
- EXISTING SIGN TO BE RELOCATED
- EXISTING SIGN TO BE REMOVED
- EXISTING SIGN TO BE COVERED

NOTES

1. ALL DIMENSIONS, LEVELS, CHAINAGES AND CO-ORDINATES ARE EXPRESSED IN METRES UNLESS SPECIFIED OTHERWISE. GENERAL ARRANGEMENT PLAN DRAWINGS TO BE READ IN CONJUNCTION WITH CONSTRUCTION TRAFFIC MANAGEMENT PLAN.

Appendix B – Consultation



January 2023

Newcastle Inner City Bypass – Rankin Park to Jesmond

Early work and start of construction from January to March 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 will complete early work, establish the construction zone and start site clearing during January and March 2023. Daytime work will be carried out **Monday to Friday** between **7am** and **6pm** and **Saturday** between **8am** to **5pm** and includes:

- building and road condition surveys
- completing the main site compound at the rear of the Mater Hospital and two minor compounds near the southern and northern interchanges
- heritage salvage operations near the Jesmond/Newcastle Inner City Bypass intersection
- installing nest boxes and carved hollows beyond the project boundary as part of our fauna management plan
- setting up environmental controls such as dust monitors and sediment controls
- flagging construction site boundaries
- site access works along Newcastle Road, Jesmond and McCaffrey Drive, Rankin Park
- stormwater drainage
- removing vegetation, clearing and grubbing for site access
- utility 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
January to March 2023	<ul style="list-style-type: none">• Utility investigations and potholing• Early work for John Hunter Hospital interface• Geotechnical investigations• Saw cutting of footpaths and reinstatement of affected areas• Road widening and drainage work to accommodate site access to the northern site compound• Tree and vegetation clearing on the western side of the Newcastle Inner City Bypass near the Jesmond roundabout• On-road survey work• Installing safety barriers, line marking and signage around work areas	<ul style="list-style-type: none">• Traffic control• Excavators, tippers, rollers• Chainsaws• Vacuum excavation• Saw cutters• Bore hole drills (vehicle mounted)• Hand held compactors• Franna cranes and hi-ab• Survey equipment• Trucks and light vehicles• Lighting towers

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



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**.



Australian Government



January 2023

Newcastle Inner City Bypass – Rankin Park to Jesmond

Planned work near Jesmond roundabout from Monday 6 February 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.

Work in your area

Day work is planned to start from **Monday 6 February 2023**, between **7am to 6pm**. Night work is planned from **Monday 6 February** until **Thursday 30 March (Sunday to Thursday nights)**, between **6pm and 7am**, weather permitting. We will be installing new signage, road barriers and utilities, and painting road lines in preparation for the start of construction. Work will be carried in or next to 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 each week until the work is completed, to allow the community respite from the night work.

Details of planned work

Location	Activities	Occurrence
Newcastle Inner City Bypass, Newcastle Road, Jesmond and within the Jesmond roundabout	<ul style="list-style-type: none">• Crane lifting barriers and fixing to pavement• Line marking removal vehicles and sprayers• Concrete saw for removal of road sensors• Vacuum truck for pot holing• Road signage installation• Utility investigation and installation• Move equipment between locations• Traffic control set up and pack up• Lighting towers for the work area	Up to 3 nights per week

Traffic changes

There will be traffic controllers on site, temporary lane closures, machinery operating adjacent to or in the road 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](https://www.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.



This is an artist impression only and is not to scale

How will the work affect you?

There will be machinery and other plant and equipment working in different areas throughout the night works. The machinery and equipment 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 each week until the works are completed
- 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 or complaints 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.

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Appendix C Noise assessments

1. Signage - NCA4 – R1092 (2 Crest Road, Jesmond)

a. Worst case – vac truck

Project name		RP2J	
Scenario name		Install signage	
Receiver address		2 Crest Road Jesmond (R1092)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User Input	
Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise mangement level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	16
	All at Representative Distance

Type/model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84	1		No (behind substantial solid barrier)	0	-10	18	66
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	18	52
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	18	47
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))	66
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b. Worst case – hand tools

Project name		RP2J	
Scenario name		Install signage	
Receiver address		2 Crest Road Jesmond (R1092)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User input	
Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise mangement level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	20
	All at Representative Distance

Type/model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	20	51
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	20	46
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))	52
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- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cutting, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels
- (c) noise management levels
- (d) predicted noise levels for each time period
- (e) sleep disturbance affected distance for night works
- (f) mitigation measures
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are shown in the 'Is there line of sight to receiver' drop-down list.)

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cutting, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
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- (f) mitigation measures
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are shown in the 'Is there line of sight to receiver' drop-down list.)

c. +25 – vac truck

Project name		RP2J	
Scenario name		Install signage	
Receiver address		2 Crest Road Jesmond (R1092)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User Input	

Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise management level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

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

Y

Representative distance (m)

18

All at Representative Distance

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84	1		No (behind substantial solid barrier)	0	-10	18	66
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	18	52
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	18	47
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))

66

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7.
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
- (b) background noise levels
- (c) noise management levels
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.
- (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)

d. +25 – hand tools

Project name		RP2J	
Scenario name		Install signage	
Receiver address		2 Crest Road Jesmond (R1092)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User Input	

Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise management level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

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

Y

Representative distance (m)

4

All at Representative Distance

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	4	65
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	4	60
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))

66

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7.
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
- (b) background noise levels
- (c) noise management levels
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.
- (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)

e. +15 – vac truck

Project name	RP2J
Scenario name	Install signage
Receiver address	2 Crest Road Jesmond (R1092)
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User input
Representative Noise Environment	
Noise area category	User Input
RBL or LA90 Background level (dB(A))	Day Evening Night
LAeq(15minute) Noise management level (dB(A))	Day Day (OOHW) Evening Night

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	45

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84	1		No (behind substantial solid barrier)	0	-10	45	56
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	45	42
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	45	37
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		56							

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cut.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)

f. +15 hand tools

Project name	RP2J
Scenario name	Install signage
Receiver address	2 Crest Road Jesmond (R1092)
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User input
Representative Noise Environment	
Noise area category	User Input
RBL or LA90 Background level (dB(A))	Day Evening Night
LAeq(15minute) Noise management level (dB(A))	Day Day (OOHW) Evening Night

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	12

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	12	55
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	12	50
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		56							

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cut.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)

g. +5 vac truck

Project name		RP2J	
Scenario name		Install signage	
Receiver address		2 Crest Road Jesmond (R1092)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User input	

Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise management level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

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

Y

Representative distance (m)

125

All at Representative Distance

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84	1		No (behind substantial solid barrier)	0	-10	125	46
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	125	32
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	125	27
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))

46

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.
- (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator show)

a. +5 hand tools

Project name		RP2J	
Scenario name		Install signage	
Receiver address		2 Crest Road Jesmond (R1092)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User input	

Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise management level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

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

Y

Representative distance (m)

32

All at Representative Distance

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	32	45
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	32	40
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))

46

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.
- (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator show)

b. NML – vac truck

Project name	RP2J
Scenario name	Install signage
Receiver address	2 Crest Road Jesmond (R1092)
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User input
Representative Noise Environment	
Noise area category	
RBL or LA90 Background level (dB(A))	Day Evening Night
LAeq(15minute) Noise management level (dB(A))	Day Day (OOHW) Evening Night

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	190

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84	1		No (behind substantial solid barrier)	0	-10	190	41
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	190	27
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	190	22
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		41							

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)

c. NML – hand tools

Project name	RP2J
Scenario name	Install signage
Receiver address	2 Crest Road Jesmond (R1092)
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User input
Representative Noise Environment	
Noise area category	
RBL or LA90 Background level (dB(A))	Day Evening Night
LAeq(15minute) Noise management level (dB(A))	Day Day (OOHW) Evening Night

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	55

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	55	40
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	55	35
					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
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		41							

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)

a. Worst case – vac truck

6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):

- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7

7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells D24 to A47 (e.g. dump trucks + excavator):

- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 a road curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not a barrier.

8. Identify the level above background and/or noise management level (see rows S7 to G2).

9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.

10. Identify and implement feasible and reasonable additional mitigation measures (see rows G3 to G5).

11. Document a summary report detailing:

- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
- (b) background noise levels
- (c) noise management levels
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are not included in this tool)

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks - excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cc
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as per the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator for

c. +25 – vac truck

Project name		RP2J	
Scenario name		Signage installation	
Receiver address		234 Newcastle Road R1466	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User input	
Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		55
	Evening		51
	Night		41
	Day		65
LAeq(15minute) Noise mangement level (dB(A))	Day (OOHW)		60
	Evening		56
	Night		46

Is all plant at the same representative distance to the receiver? Y/N	Y	All at Representative Distance
Representative distance (m)	10	

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A26 to A47 (e.g. dump trucks + excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step #5 - enter the distance to receiver for each individual plant in cells E28 to E47.
 - (c) is there line of sight to the receiver? select from drop down list in cells F28 to F47. Solid barrier can be in the form of a road curbside, timber lagging and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not a barrier.
8. Identify the level above background and/or noise management level (see rows S7 to S21).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the noise management level.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows G3 to G5).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors),
 - (b) background noise levels,
 - (c) noise management levels,
 - (d) predicted noise levels for each time period,
 - (e) sleep disturbance affected distance for night works,
 - (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator:

e. +15 – hand tools

[illegible]

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are

Total SPL $L_{Aeq}(15\text{minute})$ (dB(A))	61
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(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator :

f. +5 vac truck

[illegible]

a member of a sample to help select the noise area category.

(b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).

6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):

- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7

7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).

- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lagged and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not co

8. Identify the level above background and/or noise management level (see rows 57 to 62).

9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.

10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).

11. Document a summary report detailing:

- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are

[illegible]

g. +5 hand tools

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step 8.
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step 6 - enter the distance to receiver for each individual plant 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 road curbs, timber lagging and caged fences, shipping container, site office, etc. Please note that vegetation and trees are not a curbs.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors).
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period, shipping.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are not included in this document.)

h. NML vac truck

[illegible]

6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator):
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from drop-down list - enter the distance for each individual plant in cells E28 to E47.
 - (c) is there time of night to receiver? select from drop down list in cells F28 to F47. Solid barrier can be in the form of road curbs, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows S7 to S2).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors).
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator

[illegible]

- i. NML hand tools

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator):
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step #6 - enter the distance to receiver for each individual plant in cells E28 to E47.
 - (c) is there line of sight to receiver? Select Y or N from drop-down list in cells F28 to F47. Solid barrier can be in the form of a road curtain, timber lagged and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not a barrier.
8. Identify the level above background and/or noise management level (see rows S7 to S2).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection. In the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and/or reasonable additional mitigation measures (see rows R3 to R5).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator

a. Worst case

(b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).

6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):

(a) where Y is selected - enter the representative distance in cell C25.

(b) where N is selected - go to step 7

7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).

(a) enter quantity for each selected plant in cells D28 to D47.

(b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut/cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not con

8. Identify the level above background and/or noise management level (see rows 57 to 62).

9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.

10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).

11. Document a summary report detailing:

(a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)

(b) background noise levels.

(c) noise management levels.

(d) predicted noise levels for each time period.

(e) sleep disturbance affected distance for night works.

(f) mitigation measures.

(g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator sh

[illegible]

6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A26 to A47 (e.g. dump trucks + excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step #6 - enter the distance to receiver for each individual plant in cells E28 to E47.
8. Enter the line of sight to the receiver from the drop-down list in cells F28 to F47 - Solid barrier can be in the form of a road curbside, timber palade and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not a barrier.
9. Identify the level above background and/or noise management level (see rows S7 to S2).
 - (a) Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows G3 to G5).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels
 - (c) noise management levels
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator tool are not included in this tool.)

c. +15

Project name	RP2J
Scenario name	Barriers and Inemarking
Receiver address	195 Newcastle Road - R1231
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User input
Representative Noise Environment	
Noise area category	User Input
RBL or LA90 Background level (dB(A))	Day Evening Night
LAeq(15minute) Noise mangement level (dB(A))	Day Day (OOHW) Evening Night

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	110

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84	1		No (behind substantial solid barrier)	0	-10	110	47
Light vehicles	103	78			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	103	78			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	103	78			Yes	0	0		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	103	78			No (behind substantial solid barrier)	0	-10		-888
Pneumatic Jackhammer	110	85			No (behind substantial solid barrier)	0	-10		-888
Mobile Crane	111	86			No (behind substantial solid barrier)	0	-10		-888
concrete saw	117	92	1		Yes	0	0		-888
					No (behind substantial solid barrier)	0	-10	110	55
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		56							

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels
- (c) noise management levels
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.
- (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)

d. +5

Project name	RP2J
Scenario name	Barriers and Inemarking
Receiver address	195 Newcastle Road - R1231
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User input
Representative Noise Environment	
Noise area category	User Input
RBL or LA90 Background level (dB(A))	Day Evening Night
LAeq(15minute) Noise mangement level (dB(A))	Day Day (OOHW) Evening Night

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	250

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	103	78	1		No (behind substantial solid barrier)	0	-10	250	32
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	250	35
Generator	103	78	1		No (behind substantial solid barrier)	0	-10	250	32
Light vehicles	103	78			Yes	0	0		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	103	78			No (behind substantial solid barrier)	0	-10		-888
Pneumatic Jackhammer	110	85			No (behind substantial solid barrier)	0	-10		-888
Mobile Crane	111	86			No (behind substantial solid barrier)	0	-10		-888
concrete saw	117	92	1		Yes	0	0		-888
					No (behind substantial solid barrier)	0	-10	250	46
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		46							

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels
- (c) noise management levels
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.
- (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)

e. NML

Project name		RP2J						
Scenario name		Barriers and Inemarking						
Receiver address		195 Newcastle Road - R1231						
Select area ground type		Developed settlements (urban and suburban areas)						
Select type of background noise level input		User input						

Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
	Day		57
LAeq(15minute) Noise mangement level (dB(A))	Day (OOHW)		52
	Evening		51
	Night		41

Is all plant at the same representative distance to the receiver? Y/N	Y	
Representative distance (m)	360	All at Representative Distance

Type/ model plant (See Sources Sheet)	SWL LAeq (dB(A))	SPL @7m (dB(A))	Quantity	Individual distance to receiver (m)	Is there line of sight to receiver? Y/N	Quantity correction (dB)	Shielding correction (dB)	Distance used in calculation (m)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	103	78	1		No (behind substantial solid barrier)	0	-10	360	27
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	360	30
Generator	103	78	1		No (behind substantial solid barrier)	0	-10	360	27
					Yes	0	0		-888
Light vehicles	103	78			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	103	78			No (behind substantial solid barrier)	0	-10		-888
Pneumatic Jackhammer	110	85			No (behind substantial solid barrier)	0	-10		-888
Mobile Crane	111	86			No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
concrete saw	117	92	1		No (behind substantial solid barrier)	0	-10	360	41
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))		41
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4. Linemarking NCA5 – R1466 (234 Newcastle Road Jesmond)

a. Worst case

Project name	RP2J	
Scenario name	Barriers and Inemarking	
Receiver address	234 Newcastle Road R1466	
Select area ground type	Developed settlements (urban and suburban areas)	
Select type of background noise level input	User Input	
Noise area category	Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day	55
	Evening	51
	Night	41
L Aeq(15minute) Noise mangement level (dB(A))	Day (DOHW)	60
	Evening	56
	Night	46
Is all plant at the same representative distance to the receiver? Y/N	Y	
Representative distance (m)	55	All at Representative Distance

6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 (a) where Y is selected - enter the representative distance in cell C25.
 (b) where N is selected - go to step #7
 7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
 (a) enter quantity for each selected plant in cells D28 to D47.
 (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cutting curtain, timber lapped and caged fence, shipping container, site office, etc. Please note that vegetation and trees are not consid
 8. Identify the level above background and/or noise management level (see rows 57 to 62).
 9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as pa r t of the selection in the 'Is there line of sight to receiver' drop-down list.
 10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
 11. Document a summary report detailing:
 (a) project description (including location, duration, hours of work, construction methodology, plant , potentially impacted receive
 (b) background noise levels.
 (c) noise management levels.
 (d) predicted noise levels for each time period.
 (e) sleep disturbance affected distance for night works.
 (f) mitigation measures.
 (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator show

Type/model plant (See Sources Sheet)	SWL L Aeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind solid barrier)	0	-5		-888
Light vehicles	103	78	1		No (behind solid barrier)	0	-5	55	53
Truck (>20tonne)	106	81	1		No (behind solid barrier)	0	-5	55	56
Generator	103	78	1		No (behind solid barrier)	0	-5	55	53
					No (behind solid barrier)	0	-5		-888
Light vehicles	103	78			No (behind solid barrier)	0	-5		-888
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Generator	103	78			No (behind solid barrier)	0	-5		-888
Pneumatic Jackhammer	110	85			No (behind solid barrier)	0	-5		-888
Mobile Crane	111	86			No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
concrete saw	117	92	1		No (behind solid barrier)	0	-5	55	67
					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 Aeq(15minute) (dB(A))		68							

c. +15

[illegible]

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator s

[illegible]

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator

d. +5

[illegible]

- (d) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks - excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not a solid barrier.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels.
 - (c) noise management levels
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are set at 55 dBA L_{eq} for day-evening-night and 50 dBA L_{eq} for night.)

Type/model plant (See Sources Sheet)	SWL L Aeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	90	65			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	103	78			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	90	65	1		No (behind substantial solid barrier)	0	-10	90	31
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	95	70	1		No (behind substantial solid barrier)	0	-10	90	36
Pneumatic Jackhammer	110	85	1		No (behind substantial solid barrier)	0	-10	90	51
Mobile Crane	97	72			No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
concrete saw	117	92			No (behind substantial solid barrier)	0	-10		-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
					Yes	0	0		-888
Total SPL L Aeq(15minute) (dB(A))		51							

e. NML

[illegible]

(b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).

6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):

(a) where Y is selected - enter the representative distance in cell C25.

(b) where N is selected - go to step #7

7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).

(a) enter quantity for each selected plant in cells D28 to D47.

(b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cutting, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.

8. Identify the level above background and/or noise management level (see rows S7 to S2).

9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.

10. Identify and implement feasible and/or reasonable additional mitigation measures (see rows G3 to G5).

11. Document a summary report detailing:

(a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)

(b) background noise levels.

(c) noise management levels.

(d) predicted noise levels for each time period.

(e) sleep disturbance affected distance for night works.

(f) mitigation measures.

(g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator should

a. Worst case

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks = excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lagged and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows S7 to S2).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows G3 to G5).
11. Document a summary report of findings:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are not included in this model.)

b. +25

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select 'Y' or 'N' (cell C24):
 - (a) where 'Y' is selected - enter the representative distance in cell C25.
 - (b) where 'N' is selected - go to step 7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where 'N' is selected from step 6 - enter the distance to receiver for each individual plant 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 road cutting, timber lapings and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered as barriers.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels
 - (c) noise management levels
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estima for sh

c. +15

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step 6 - enter the distance to receiver for each individual plant 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 road cut/cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cut
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report of findings:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptor)
 - (b) background noise levels
 - (c) noise management levels
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator sh

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator sh

[illegible]

6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25
 - (b) where N is selected - go to step 7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks - excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from drop-down list - enter the distance to receiver for each individual plant 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 a road cut, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not a barrier.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and/or reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted rece
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are)

e. NML

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
 6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
 7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected for step #6 - enter the distance to receiver for each individual plant 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 a road cut/cut, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not con
 8. Identify the level above background and/or noise management level (see rows 57 to 62).
 9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
 10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
 11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.
- (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are shown in the 'Other noise-sensitive businesses' section of the report.)

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

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	90	65			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	95	70			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	210	26
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	95	70	1		No (behind substantial solid barrier)	0	-10	210	26
Pneumatic Jackhammer	110	85	1		No (behind substantial solid barrier)	0	-10	210	41
Mobile Crane	97	72			No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
Concrete saw	117	92			No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		41							

6. Barriers NCA5 R1466 (234 Newcastle Road Jesmond)

a. Worst case

[illegible]

- a number of examples to help select the noise and/or category.
- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells D28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected to receive #1 - enter the distance to receiver for each individual plant in cells E28 to E47.
 - (c) is there time of night to receive #2? select Y or N from drop down list in cells F28 to F47. Solid barrier can be in the form of road cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cc
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as per to the selection in the 'Is there sign of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator s

b. +25

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step 47
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks - excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lagged and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not a solid barrier.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels
 - (c) noise management levels
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are

c. +15

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator)
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 a road cut, curtain, timber tapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not a barrier.
8. Identify the level above background noise for each plant (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels
 - (c) noise management levels
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator are not included in this model.)

d. +5

[illegible]

6. Are all plant at the same representative distance to the receiver? Select Y or N (cell C24):

- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7

7. For the scenario (a) shallow excavation, select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).

- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cutting, culvert, timber lapped or chain-link fence, shipping container, site office, etc. Please note that vegetation and trees are not consis.

8. Identify the level above background and/or ground level (see rows S7 to S2):

9. Identify and implement standard mitigation measures where feasible and reasonable. Includes any shielding implemented as part of the selection. In the 'Is there line of sight to receiver' drop-down list.

10. Identify and implement feasible and reasonable additional mitigation measures (see rows 83 to 85).

11. Document a summary report detailing:

- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator for show

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator should

[illegible]

Total SPL L Aeq(15minute) (dB(A))	51
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e. NML

[illegible]

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
 - (a) where Y is selected - enter the representative distance in cell C25.
 - (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
 - (a) enter quantity for each selected plant in cells D28 to D47.
 - (b) where Y is selected from step #6 - enter the distance to receiver for each individual plant in cells E28 to E47.
 - (c) where line of sight to receiver is selected from drop down list in cells F28 to F47. Solid barrier can be in the form of a road cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cc
8. Identify the level above background and/or noise management level (see rows S7 to S2).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows K3 to K5).
11. Document a summary report detailing:
 - (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
 - (b) background noise levels.
 - (c) noise management levels.
 - (d) predicted noise levels for each time period.
 - (e) sleep disturbance affected distance for night works.
 - (f) mitigation measures.
 - (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator s

Type/model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind solid barrier)	0	-5		-888
Light vehicles	90	65			No (behind solid barrier)	0	-5		-888
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Generator	103	78			No (behind solid barrier)	0	-5		-888
Light vehicles	90	65	1		No (behind solid barrier)	0	-5	135	-888
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Generator	95	70	1		No (behind solid barrier)	0	-5	135	36
Pneumatic Jackhammer	110	85	1		No (behind solid barrier)	0	-5	135	51
Mobile Crane	97	72			No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
concrete saw	117	92			No (behind solid barrier)	0	-5		-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
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		51							

7. Concrete saw - NCA4 R1231 (195 Newcastle Road Jesmond)

a. Worst case

Project name		RP2J	
Scenario name		concrete saw	
Receiver address		193 Newcastle Road, Jesmond (R1231)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User input	
Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise management level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41
Is all plant at the same representative distance to the receiver? Y/N		Y	
Representative distance (m)		55	
All at Representative Distance			
Type/ model plant (See Sources Sheet)	SWL LAeq (dB(A))	SPL @7m (dB(A))	Quantity
Vacuum truck	109	84	
Light vehicles	90	65	
Truck (>20tonne)	106	81	
Generator	95	70	1
Light vehicles	103	78	1
Truck (>20tonne)	106	81	
Generator	103	78	
Pneumatic Jackhammer	110	85	
Mobile Crane	103	78	
Concrete saw	118	93	1
Total SPL LAeq(15minute) (dB(A)) 63			

b. +25

Project name		RP2J	
Scenario name		concrete saw	
Receiver address		193 Newcastle Road, Jesmond (R1231)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User input	
Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise management level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41
Is all plant at the same representative distance to the receiver? Y/N		Y	
Representative distance (m)		42	
All at Representative Distance			
Type/ model plant (See Sources Sheet)	SWL LAeq (dB(A))	SPL @7m (dB(A))	Quantity
Vacuum truck	109	84	
Light vehicles	90	65	
Truck (>20tonne)	106	81	
Generator	95	70	1
Light vehicles	103	78	1
Truck (>20tonne)	106	81	
Generator	103	78	
Pneumatic Jackhammer	110	85	
Mobile Crane	103	78	
Concrete saw	118	93	1
Total SPL LAeq(15minute) (dB(A)) 66			

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not considered.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receiver)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.
- (Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator sheet)

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	90	65			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	95	70	1		No (behind substantial solid barrier)	0	-10	55	40
Light vehicles	103	78	1		No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10	55	48
Generator	103	78			No (behind substantial solid barrier)	0	-10		-888
Pneumatic Jackhammer	110	85			No (behind substantial solid barrier)	0	-10		-888
Mobile Crane	103	78			No (behind substantial solid barrier)	0	-10		-888
Concrete saw	118	93	1		No (behind substantial solid barrier)	0	-10	55	63
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

c. +15

Project name	RPSJ
Scenario name	concrete saw
Receiver address	193 Newcastle Road, Jesmond (R1231)
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User input

Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise management level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	115

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not c
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted rec
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	90	65			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	95	70	1		No (behind substantial solid barrier)	0	-10	115	33
					No (behind substantial solid barrier)	0	-10		-888
Light vehicles	103	78	1		No (behind substantial solid barrier)	0	-10	115	41
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	103	78			No (behind substantial solid barrier)	0	-10		-888
Pneumatic Jackhammer	110	85			No (behind substantial solid barrier)	0	-10		-888
Mobile Crane	103	78			No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
Concrete saw	118	93	1		No (behind substantial solid barrier)	0	-10	115	56
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))	56
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d. +5

Project name	RPSJ
Scenario name	concrete saw
Receiver address	193 Newcastle Road, Jesmond (R1231)
Select area ground type	Developed settlements (urban and suburban areas)
Select type of background noise level input	User input

Noise area category		Representative Noise Environment	User Input
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise management level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	260

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cc
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection in the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted rec)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	90	65			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	95	70	1		No (behind substantial solid barrier)	0	-10	260	23
					No (behind substantial solid barrier)	0	-10		-888
Light vehicles	103	78	1		No (behind substantial solid barrier)	0	-10	260	31
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	103	78			No (behind substantial solid barrier)	0	-10		-888
Pneumatic Jackhammer	110	85			No (behind substantial solid barrier)	0	-10		-888
Mobile Crane	103	78			No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
Concrete saw	118	93	1		No (behind substantial solid barrier)	0	-10	260	46
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888

Total SPL LAeq(15minute) (dB(A))	46
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e. NML

Project name		RP2J	
Scenario name		concrete saw	
Receiver address		193 Newcastle Road, Jesmond (R1231)	
Select area ground type		Developed settlements (urban and suburban areas)	
Select type of background noise level input		User input	
		Representative Noise Environment	User Input
Noise area category			
RBL or LA90 Background level (dB(A))	Day		47
	Evening		46
	Night		36
LAeq(15minute) Noise mangement level (dB(A))	Day		57
	Day (OOHW)		52
	Evening		51
	Night		41

Is all plant at the same representative distance to the receiver? Y/N	Y	
Representative distance (m)	400	All at Representative Distance

Type/ model plant (See Sources Sheet)	SWL LAeq (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)	Contribution SPL (dB(A))
Vacuum truck	109	84			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	90	65			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	95	70	1		No (behind substantial solid barrier)	0	-10	400	18
					No (behind substantial solid barrier)	0	-10		-888
Light vehicles	103	78	1		No (behind substantial solid barrier)	0	-10	400	26
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Generator	103	79			No (behind substantial solid barrier)	0	-10		-888
Pneumatic Jackhammer	110	85			No (behind substantial solid barrier)	0	-10		-888
Mobile Crane	103	78			No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
Concrete saw	118	93	1		No (behind substantial solid barrier)	0	-10	400	41
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					No (behind substantial solid barrier)	0	-10		-888
					Yes	0	0		-888
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		41							

- (b) where user input is selected - enter the measured background noise level for each time period (cells D17 to D19).
6. Is all plant at the same representative distance to the receiver? Select Y or N (cell C24):
- (a) where Y is selected - enter the representative distance in cell C25.
- (b) where N is selected - go to step #7
7. For the scenario (e.g. shallow excavation), select plant from the drop-down list in cells A28 to A47 (e.g. dump trucks + excavator).
- (a) enter quantity for each selected plant in cells D28 to D47.
- (b) where N is selected from step #6 - enter the distance to receiver for each individual plant 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 road cut, curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not counted.
8. Identify the level above background and/or noise management level (see rows 57 to 62).
9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the selection. In the 'Is there line of sight to receiver' drop-down list.
10. Identify and implement feasible and reasonable additional mitigation measures (see rows 63 to 65).
11. Document a summary report detailing:
- (a) project description (including location, duration, hours of work, construction methodology, plant, potentially impacted receptors)
- (b) background noise levels.
- (c) noise management levels.
- (d) predicted noise levels for each time period.
- (e) sleep disturbance affected distance for night works.
- (f) mitigation measures.
- (g) team member responsible for implementing mitigation measures and managing noise and vibration.

(Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator)