


# RP2J Project OOHW application form

Out of hours work approval request form			
<b>No:</b>	<b>Notification date:</b>	<b>Approval date:</b>	<b>Project:</b>
08	01/02/2023	08/02/2023	RP2J
<b>A. Contact details</b>	<b>Name</b>	<b>Mobile number</b>	<b>Email</b>
Contractor Environmental Site Representative	[REDACTED]	[REDACTED]	[REDACTED]
Contractor Construction Manager	[REDACTED]	[REDACTED]	[REDACTED]
Contractor Foreman	[REDACTED]	[REDACTED]	[REDACTED]
Contractor Project Engineer	[REDACTED]	[REDACTED]	[REDACTED]
<b>B. Details of work:</b>			
Include a map showing location of work extent and nearest sensitive receivers			
Location / chainages:	<p>Nearest receivers are marked in red on Figure 1.</p> <p>McCaffrey Drive linemarking and barriers– see below. The signage layout and work area is shown in Appendix A.</p> <p>Line marking and barriers work area shown in pink below.</p>		
			
NCA/s:	10,12 and 13		

## Out of hours work approval request form

Description of works – also include a brief description of the sequence of activities:	<ul style="list-style-type: none"> <li>- Signage installation</li> <li>- Transport and installation of concrete barriers</li> <li>- Fixing of barriers to pavement</li> <li>- Linemarking removal and repainting lines.</li> </ul>
Machinery/ plant to be used	<p>Activity 1 - Signage:</p> <ul style="list-style-type: none"> <li>- Vacuum truck</li> <li>- HV's</li> <li>- LV's</li> <li>- Hand Tools.</li> </ul> <p>Activity 2 - Barrier Installation:</p> <ul style="list-style-type: none"> <li>- HV's</li> <li>- Excavator/Franna</li> <li>- LV's</li> <li>- Lighting Towers (Generator in noise calculator with SWL 95).</li> </ul> <p>Activity 3. Linemarking:</p> <ul style="list-style-type: none"> <li>- Water Blaster (Vacumn truck used in the noise calculator with a SWL 117)</li> <li>- HV's</li> <li>- LV's</li> <li>- Hand Tools.</li> </ul> <p>Note: all activities in this work area will run separately and will not run concurrently.</p>
Traffic control measures required:	Shoulder/Lane Closures, PTC'D's (Potable Traffic Lights), Speed Reductions
Lighting required:	Lighting Towers, Temporary Street Lights
Proposed dates:	<p>12/02/2023 – 5/03/2023 (Sunday to Thursday working week)</p> <p>Start date is pending the following approvals:</p> <ul style="list-style-type: none"> <li>• Consistency Assessment signage installation [8]</li> <li>• LIWA 006 Southern and northern interchange set up works.</li> </ul> <p>It is proposed to work up to 3 shifts a week for 2 weeks between 8/2 and 19/2, with a 1 week redundancy period between 20/2 and 26/2.</p>
Proposed times:	1800-0600
Justification - why does work need to occur outside of standard construction hours? (attach support information as required)	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.

## Out of hours work approval request form

### C. Risk assessment

<b>NML (refer Table 3-2 of OOHW protocol)</b>	NCA10 P1 – 40 P2 – 31 NCA12 P1 – 41 P2 – 32 NCA13 P1 - 54 P2 - 38
<b>Is the work highly noise intensive? (above 75dB(A) <math>L_{Aeq}</math> (15 minute))</b>	no
<b>Risk factor category (refer section 4.3 of OOHW protocol):</b>	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 receivers are shown on Figure 1 and presented in Table 1, which does not exceed RBL+25.

### 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 and 3.

### E. Proposed mitigation measures, including respite

*Comments:*

- Toolbox talk to be undertaken prior to the OOHW to communicate appropriate behavioural practices
- Equipment will be inspected to ensure defects are not present. Works will be undertaken with minimum amount of equipment practical to complete the works.
- Utilise noise blankets between the works and the receiver at 83 Lookout Road. 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.
- All signage on Lookout Road will be installed using hand tools and no vacuum trucks.
- No linemarking works or barrier installation will occur on Lookout Road as part of these works.

### F. Community consultation



## Out of hours work approval request form

*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 6/02/23.
- Specific OOHW notice was delivered to sensitive receivers within the green line shown on Figure 2 and Figure 3 on 01/02/2023. Receivers 15-25dB(A) over NML are illustrated in Figure 2 and 3 in orange. All sensitive receivers 15-25dB(A) over NML were doorknocked on 01/02/23 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 is considered appropriate for these works. Out of hours construction noise will be limited to no more than two consecutive periods per week impacting particular sensitive receivers.
- Duration respite would apply to these work activities.

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

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

### G. Respite framework

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

- N/A – no work within the last month

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

Yes. All activities will be undertaken separately.

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

*Comments:*

No non-residential receivers would be impacted by the works.

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

*Comments:*

- No vibration works.

### I. Review/ Endorsements

<b>Contractor Community Liaison Representative</b>	Community notified -	Date:	
	Additional consultation requirements:		
	Have the works been reviewed and endorsed? <input type="checkbox"/>		
	Name:	Signature:	Date:
	Comments:		
<b>Transport for NSW Environmental Manager (or delegate)</b>	Agreed mitigation measures:		
	Have the works been reviewed and endorsed? <input type="checkbox"/>		
	Have the works been approved where neither low or high risk? <input type="checkbox"/>		



**Out of hours work approval request form**

	Name:	Signature:	Date:
	Comments:		
<b>Transport for NSW Project Manager</b>	Have the works been reviewed and endorsed?		
	Have the works been approved where neither low or high risk?		
	Name:	Signature:	Date:
Comments:			
<b>ER approval (low risk activities)</b>	Are the works approved?		Yes / <del>No</del>
	Name:	Signature:	Date:
	Comments:		
<b>Planning Secretary approval (high risk activities)</b>	Are the works approved?		Yes / No
	Name:	Signature:	Date:
	Comments:		



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



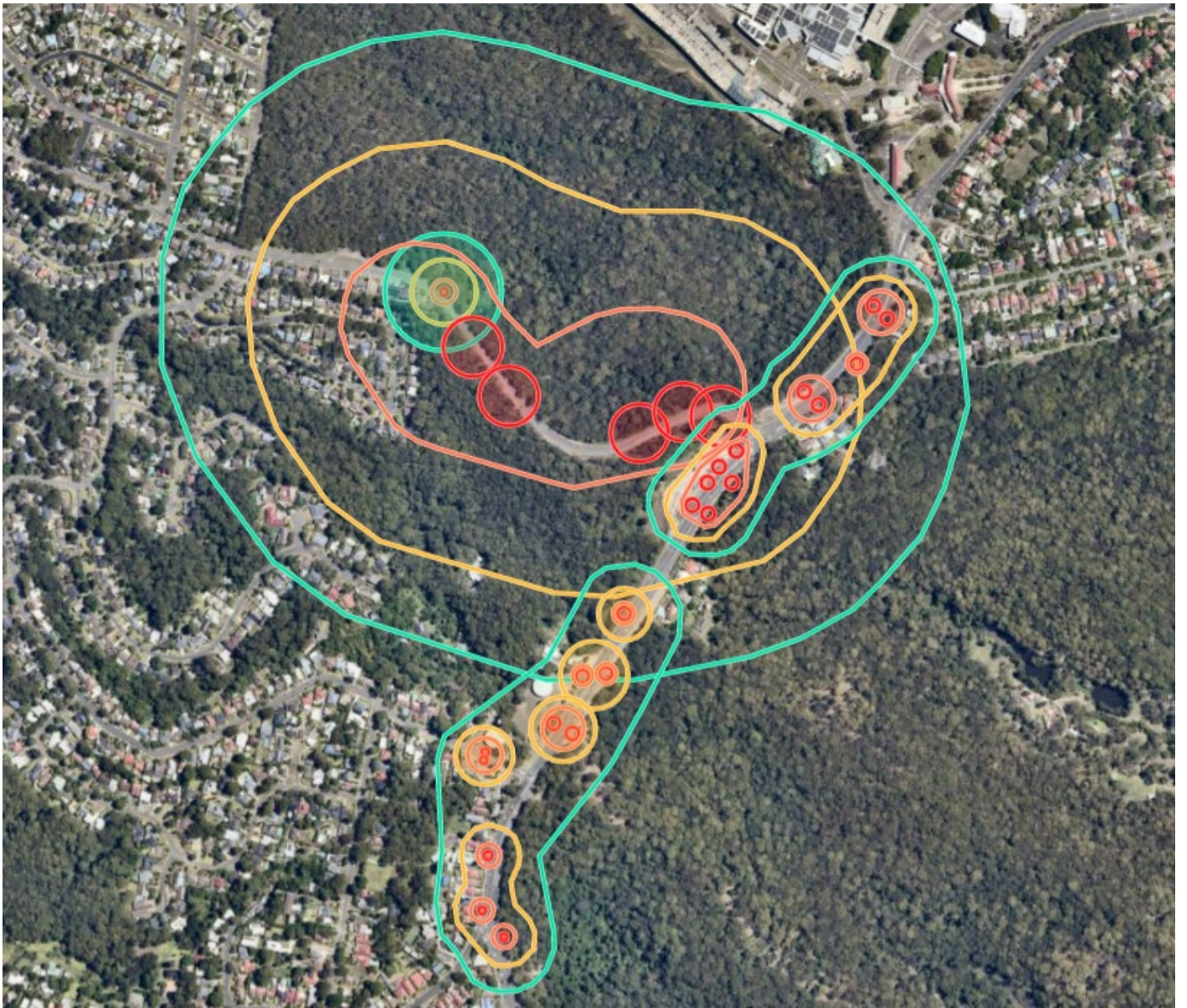
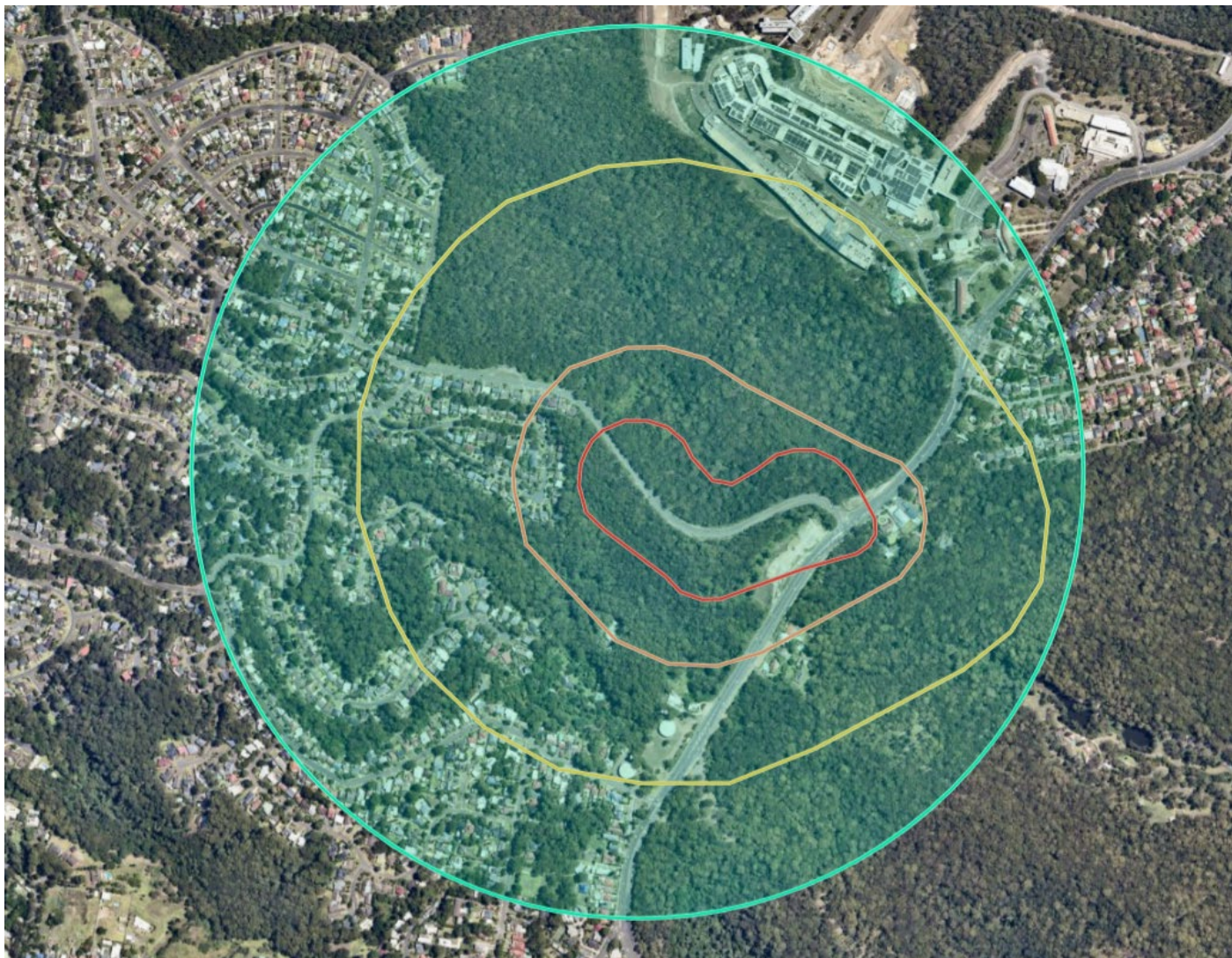


Figure 2 – Signage





**Figure 3 – Linemarking and barriers**

Green = >NML

Yellow = NML+5 & above

Orange = NML+15 & above

Red = NML+25 & above

**Table 1 – Noise estimator output**

Location	Activity	NML	NCA	dBA @ most affected	dBA above NML
R2660 (335 McCaffrey Dr)	Signage	31	10	42 – vac truck	11
				56 – hand tools	25
R2810 (160 Lookout Rd)		32	12	56	24
R2747 (119 Lookout Rd)		38	13	57	19
R2660 (335 McCaffrey Dr)	Linemarking	31	10	53	22
R2731 (83 Lookout Rd)		38	13	61	23
R2660 (335 McCaffrey Dr)	Barriers	31	10	56	25
R2731 (83 Lookout Rd)		38	13	55	17



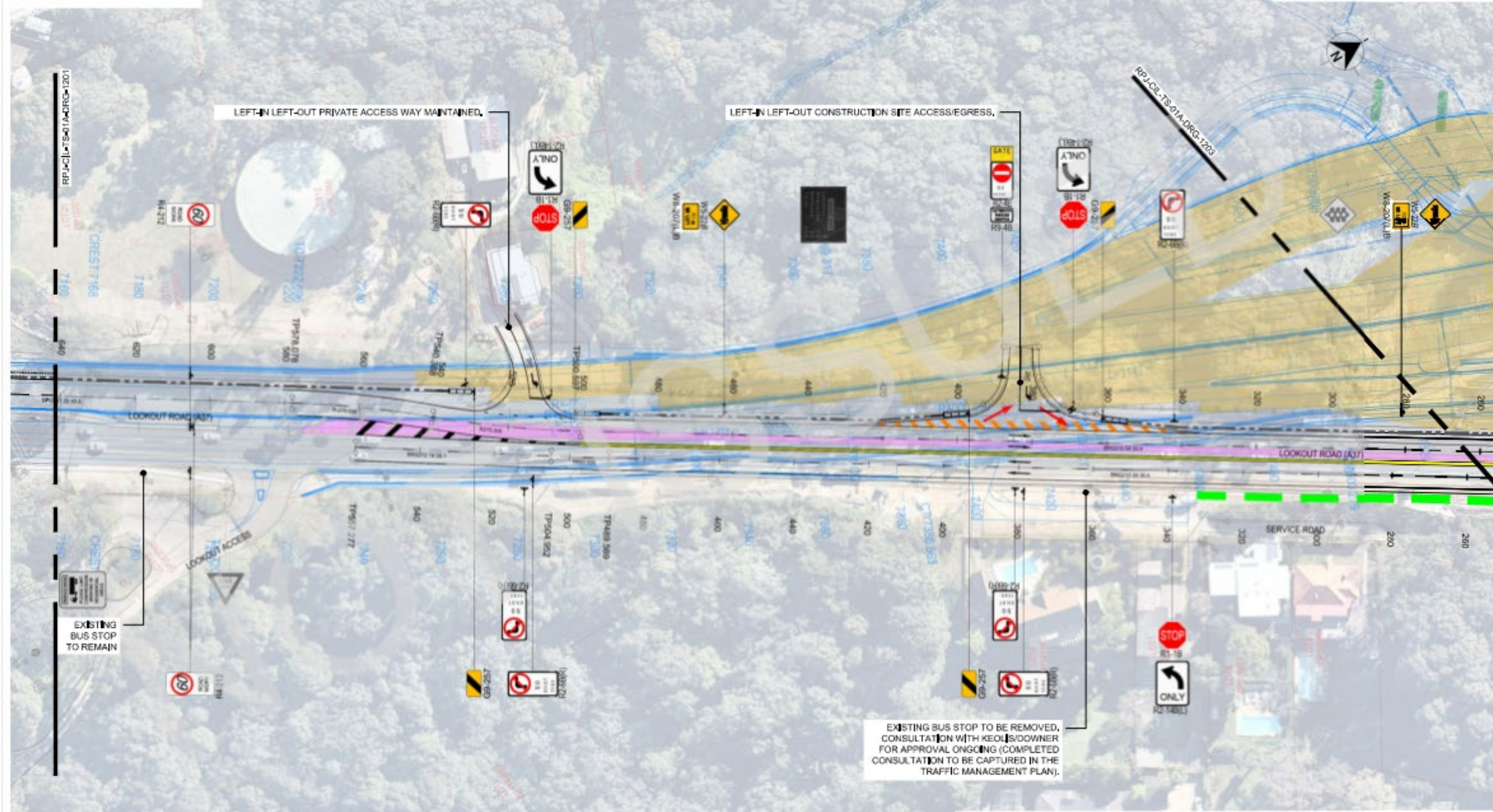
# Appendix A – Signage drawings





PREPARE A WORK ZONE TRAFFIC MANAGEMENT PLAN  
 NAME: ALEX GOSPER  
 CARD NUMBER: T0006993  
 ISSUED: 13/10/2017

FOR APPROVAL  
 15 November 2022



EXISTING BUS STOP TO BE REMOVED, CONSULTATION WITH KEOL BIDDWINER FOR APPROVAL ONGOING (COMPLETED CONSULTATION TO BE CAPTURED IN THE TRAFFIC MANAGEMENT PLAN).

**NOTES:**

- 1. REFER DRAWING RP-JCL-TS-01A-ORG-0002-0003 FOR LEGEND AND GENERAL NOTES.

TRAFFIC MANAGEMENT PLAN (TMP) IS A LEGAL REQUIREMENT FOR ALL ROADWORKS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A TMP THAT MEETS THE REQUIREMENTS OF THE ROADWORKS ACT 1993 AND THE ROADWORKS REGULATIONS 1993. THE TMP MUST BE APPROVED BY THE ROADWORKS AUTHORITY BEFORE WORK BEGINS. THE TMP MUST BE REVIEWED AND UPDATED AS NECESSARY DURING THE COURSE OF THE WORKS. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE SAFETY OF ALL ROAD USERS AT ALL TIMES.

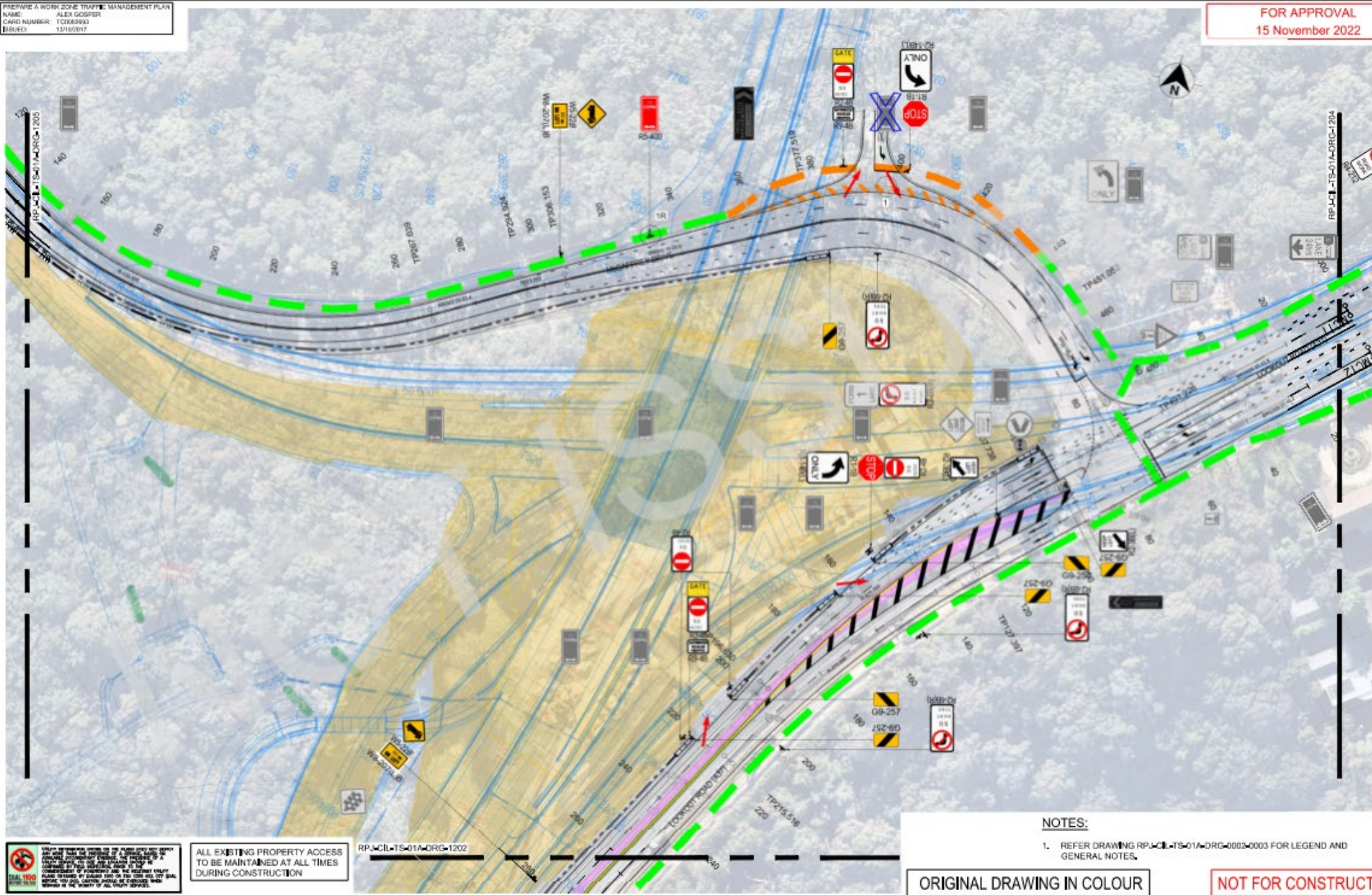
ORIGINAL DRAWING IN COLOUR

NOT FOR CONSTRUCTION



PREPARE A WORK ZONE TRAFFIC MANAGEMENT PLAN  
 NAME: ALEX GOSPER  
 CARD NUMBER: T0X60993  
 ISSUED: 13/10/2017

FOR APPROVAL  
 15 November 2022



**NO TRAFFIC**  
 ALL EXISTING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION

ALL EXISTING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION

RPJCL-ITS-01A-DRG-1202

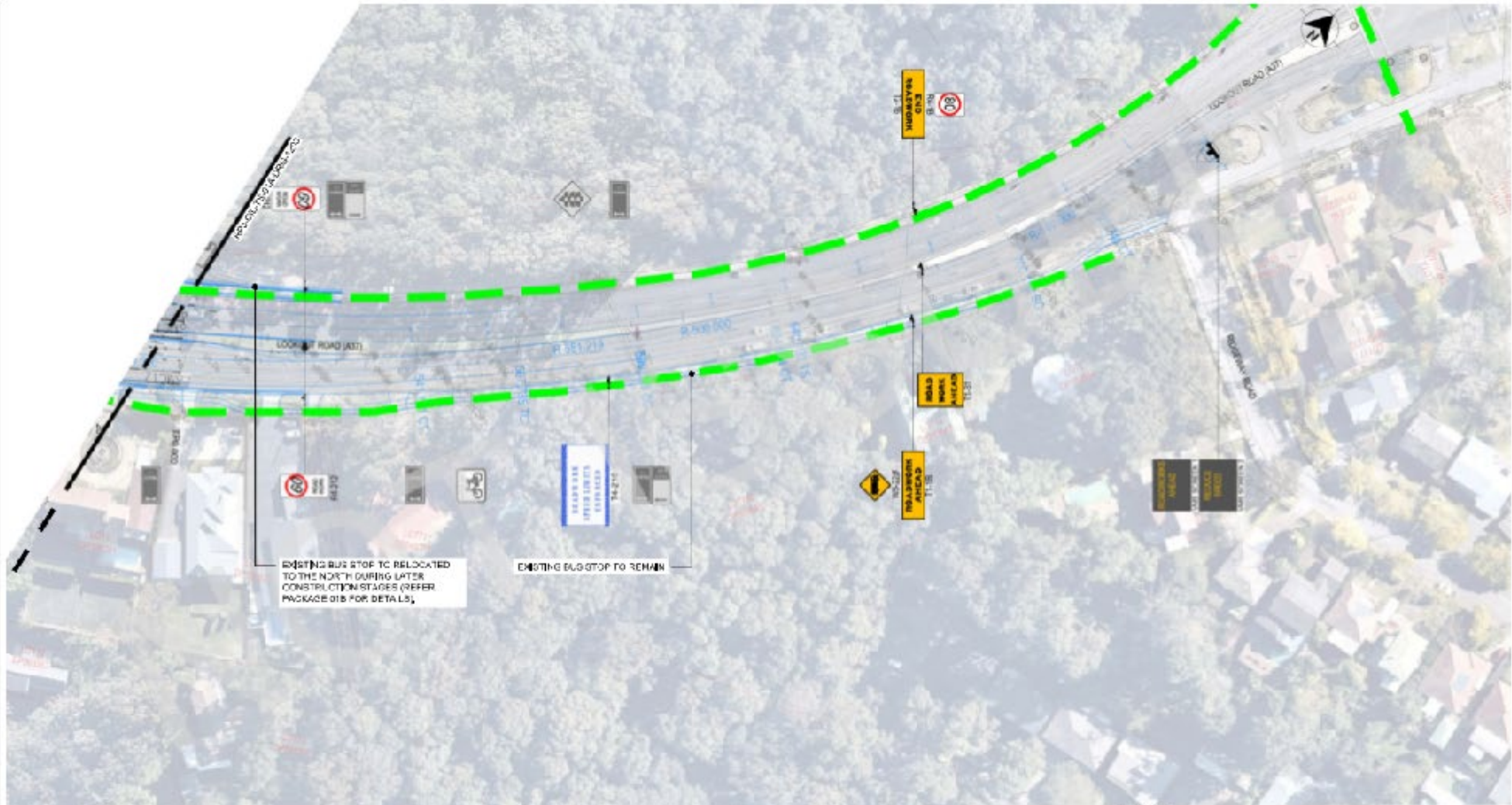
**NOTES:**

1. REFER DRAWING RPJCL-ITS-01A-DRG-0002-0003 FOR LEGEND AND GENERAL NOTES.

ORIGINAL DRAWING IN COLOUR

NOT FOR CONSTRUCTION





EXISTING BUS STOP TO BE RELOCATED TO THE NORTH DURING LATER CONSTRUCTION STAGES (REFER PACKAGE 018 FOR DETAILS)

EXISTING BUS STOP TO REMAIN

TRAFFIC LIGHTS TO BE DELETED

**NOTES**

1. REFER DRAWING HP/CLT/SO/4/010-4/003/003 FOR LEGEND AND GENERAL NOTES.



ALL EXISTING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION

ORIGINAL DRAWING IN COLOUR

NOT FOR CONSTRUCTION



PREPARE A WORK ZONE TRAFFIC MANAGEMENT PLAN  
 NAME: ALEX GOSPER  
 CARD NUMBER: T0000093  
 ISSUED: 13/11/2017

FOR APPROVAL  
 15 November 2022



 SIGNIFICANT DAMAGE TO THE PLANT AND EQUIPMENT OF THE ROAD USER MAY BE CAUSED BY THE USE OF A SIGNIFICANTLY OVERSIZED SIGN. THE USER OF A SIGNIFICANTLY OVERSIZED SIGN IS RESPONSIBLE FOR THE DAMAGE TO THE PLANT AND EQUIPMENT OF THE ROAD USER. THE USER OF A SIGNIFICANTLY OVERSIZED SIGN IS RESPONSIBLE FOR THE DAMAGE TO THE PLANT AND EQUIPMENT OF THE ROAD USER. THE USER OF A SIGNIFICANTLY OVERSIZED SIGN IS RESPONSIBLE FOR THE DAMAGE TO THE PLANT AND EQUIPMENT OF THE ROAD USER.

ALL EXISTING PROPERTY ACCESS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION

NOTES:

- REFER DRAWING RP1-CIL-TS-014-DRG-0002-0003 FOR LEGEND AND GENERAL NOTES.

ORIGINAL DRAWING IN COLOUR

NOT FOR CONSTRUCTION



## Appendix B – Consultation

3 month look ahead



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
<b>January to March 2023</b>	<ul style="list-style-type: none"><li>• Utility investigations and potholing</li><li>• Early work for John Hunter Hospital interface</li><li>• Geotechnical investigations</li><li>• Saw cutting of footpaths and reinstatement of affected areas</li><li>• Road widening and drainage work to accommodate site access to the northern site compound</li><li>• Tree and vegetation clearing on the western side of the Newcastle Inner City Bypass near the Jesmond roundabout</li><li>• On-road survey work</li><li>• Installing safety barriers, line marking and signage around work areas</li></ul>	<ul style="list-style-type: none"><li>• Traffic control</li><li>• Excavators, tippers, rollers</li><li>• Chainsaws</li><li>• Vacuum excavation</li><li>• Saw cutters</li><li>• Bore hole drills (vehicle mounted)</li><li>• Hand held compactors</li><li>• Franna cranes and hi-ab</li><li>• Survey equipment</li><li>• Trucks and light vehicles</li><li>• Lighting towers</li></ul>

## Work area

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

## How will the work affect you?

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

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

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

## Traffic changes

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

For the latest traffic updates, you can call 132 701, visit [livetraffic.com](http://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 [RP2Community@fultonhogan.com.au](mailto:RP2Community@fultonhogan.com.au) or mail to PO Box 186, Waratah, NSW 2298.

For more information about the project visit [nswroads.work/rp2j](http://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 at New Lambton Heights from Monday 6 February

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
Lookout Road and McCaffrey Drive, New Lambton Heights	<ul style="list-style-type: none"><li>• Crane lifting barriers and fixing to pavement</li><li>• Line marking removal vehicles and sprayers</li><li>• Concrete saw for removal of road sensors</li><li>• Vacuum truck for pot holing</li><li>• Road signage installation</li><li>• Utility investigation and installation</li><li>• Move equipment between locations</li><li>• Traffic control set up and pack up</li><li>• Lighting towers for the work area</li></ul>	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](http://livetraffic.com) or check the Live Traffic App.

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

Work is required outside standard construction hours to:

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



### How will the work affect you?

There will be 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](mailto:RP2JCommunity@fultonhogan.com.au) or mail to PO Box 186, Waratah, NSW 2298. For more information about the project visit [nswroads.work/rp2j](https://nswroads.work/rp2j). Thank you for your patience during this important work.

### Translating and interpreting service



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c. +25 vac truck

Project name		RP2J							
Scenario name		Signage							
Receiver address		335 McCaffrey Dr, Rankin Park (R2660)							
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		38						
	Evening		35						
	Night		26						
LAeq(15minute) Noise management level (dB(A))	Day		48						
	Day (OOHW)		43						
	Evening		40						
	Night		31						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		45							
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	45	56
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	45	42
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	45	37
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					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
<b>Total SPL LAeq(15minute) (dB(A))</b>		<b>56</b>							

(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 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 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 s

d. +25 hand tools

Project name		RP2J							
Scenario name		Signage							
Receiver address		335 McCaffrey Dr, Rankin Park (R2660)							
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		38						
	Evening		35						
	Night		26						
LAeq(15minute) Noise management level (dB(A))	Day		48						
	Day (OOHW)		43						
	Evening		40						
	Night		31						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		6							
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			No (behind solid barrier)	0	-5		-888
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	6	56
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					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
<b>Total SPL LAeq(15minute) (dB(A))</b>		<b>56</b>							

(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 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 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 s









i. NML vac truck

Project name		RP2J							
Scenario name		Signage							
Receiver address		335 McCaffrey Dr, Rankin Park (R2660)							
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		38						
	Evening		35						
	Night		26						
LAeq(15minute) Noise management level (dB(A))	Day		48						
	Day (OOHW)		43						
	Evening		40						
	Night		31						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		430							
		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	430	31
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	430	17
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	430	12
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					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
Total SPL LAeq(15minute) (dB(A))		31							

(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 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

j. NML hand tools

Project name		RP2J							
Scenario name		Signage							
Receiver address		335 McCaffrey Dr, Rankin Park (R2660)							
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		38						
	Evening		35						
	Night		26						
LAeq(15minute) Noise management level (dB(A))	Day		48						
	Day (OOHW)		43						
	Evening		40						
	Night		31						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		90							
		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			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	90	31
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					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))		31							

(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 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. +15

Project name	RP2J
Scenario name	Signage
Receiver address	160 Grandview New Lambton Heights (R2810)
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	36
	Evening	36	
	Night	27	
LAeq(15minute) Noise management level (dB(A))	Day	46	
	Day (OOHW)	41	
	Evening	41	
	Night	32	

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	18

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			No (behind solid barrier)	0	-5		-888
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	18	47
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					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

Total SPL LAeq(15minute) (dB(A))	47
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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 cutti curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are notcor

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 recei  
 (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 basis. Please contact a Roads and Maritime noise specialist for more information)

d. +5

Project name	RP2J
Scenario name	Signage
Receiver address	160 Grandview New Lambton Heights (R2810)
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	36
	Evening	36	
	Night	27	
LAeq(15minute) Noise management level (dB(A))	Day	46	
	Day (OOHW)	41	
	Evening	41	
	Night	32	

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			No (behind substantial solid barrier)	0	-10		-888
Light vehicles	95	70			No (behind solid barrier)	0	-5		-888
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-888
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-5	45	37
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					No (behind solid barrier)	0	-5		-888
					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

Total SPL LAeq(15minute) (dB(A))	37
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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 cutti curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cor

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 recei  
 (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 basis. Please contact a Roads and Maritime noise specialist for more information)







d. +5

Project name	RP2J	
Scenario name	Signage	
Receiver address	119 Lookout Rd, New Lambton Heights (R2747)	
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	56
	Evening	49
	Night	33
LAeq(15minute) Noise management level (dB(A))	Day	66
	Day (OOHW)	61
	Evening	54
	Night	38
Is all plant at the same representative distance to the receiver? Y/N	Y	
Representative distance (m)	40	

- (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 recei  
 (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 basis. Please contact a Roads and Maritime noise specialist for more information)

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(A))	Shielding correction (dB(A))	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			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small hand tools	95	70	1		No (behind substantial solid barrier)	0	-10	40	43
					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
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
					Yes	0	0		-888
<b>Total SPL LAeq(15minute) (dB(A))</b>		<b>43</b>							

e. NML

Project name	RP2J	
Scenario name	Signage	
Receiver address	119 Lookout Rd, New Lambton Heights (R2747)	
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	56
	Evening	49
	Night	33
LAeq(15minute) Noise management level (dB(A))	Day	66
	Day (OOHW)	61
	Evening	54
	Night	38
Is all plant at the same representative distance to the receiver? Y/N	Y	
Representative distance (m)	67	

- (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 cuttin curtain, timber lapped and capped fence, shipping container, site office, etc. Please note that vegetation and trees are not cont
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 receiv  
 (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 shc basis. Please contact a Roads and Maritime noise specialist for more information)

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(A))	Shielding correction (dB(A))	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			No (behind substantial solid barrier)	0	-10		-888
Truck (>20tonne)	106	81			No (behind substantial solid barrier)	0	-10		-888
Small hand tools	95	70	1		No (behind substantial solid barrier)	0	-10	67	38
					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
					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
<b>Total SPL LAeq(15minute) (dB(A))</b>		<b>38</b>							





c. +15

Project name		RP2J							
Scenario name		linemarking							
Receiver address		335 McCaffrey Drive Rankin Park (R2660)							
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		38						
	Evening		35						
	Night		26						
LAeq(15minute) Noise mangement level (dB(A))	Day		48						
	Day (OOHW)		43						
	Evening		40						
	Night		31						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		250							
<i>All at Representative Distance</i>									
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))
Fixed Crane	113	88			No (behind solid barrier)	0	-5		-88
Light vehicles	103	78			No (behind solid barrier)	0	-5		-88
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-88
Generator	98	73			No (behind solid barrier)	0	-5		-88
Pneumatic Jackhammer	113	88			No (behind solid barrier)	0	-5		-88
Small Hand Tools	105	80			No (behind solid barrier)	0	-5		-88
Vacuum truck	117	92	1		No (behind substantial solid barrier)	0	-10	250	46
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	250	24
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	250	35
Generator	90	65	1		No (behind substantial solid barrier)	0	-10	250	19
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
<b>Total SPL LAeq(15minute) (dB(A))</b>		<b>46</b>							

- (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 co
  - 8. Identify the level above background and/or noise mangement level (see rows 57 to 62).
  - 9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part o
  - 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 s basis. Please contact a Roads and Maritime noise specialist for more information)

d. +5

Project name		RP2J							
Scenario name		linemarking							
Receiver address		335 McCaffrey Drive Rankin Park (R2660)							
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		38						
	Evening		35						
	Night		26						
LAeq(15minute) Noise mangement level (dB(A))	Day		48						
	Day (OOHW)		43						
	Evening		40						
	Night		31						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		580							
<i>All at Representative Distance</i>									
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))
Fixed Crane	113	88			No (behind solid barrier)	0	-5		-88
Light vehicles	103	78			No (behind solid barrier)	0	-5		-88
Truck (>20tonne)	106	81			No (behind solid barrier)	0	-5		-88
Generator	98	73			No (behind solid barrier)	0	-5		-88
Pneumatic Jackhammer	113	88			No (behind solid barrier)	0	-5		-88
Small Hand Tools	105	80			No (behind solid barrier)	0	-5		-88
Vacuum truck	117	92	1		No (behind substantial solid barrier)	0	-10	580	36
Light vehicles	95	70	1		No (behind substantial solid barrier)	0	-10	580	14
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	580	25
Generator	90	65	1		No (behind substantial solid barrier)	0	-10	580	9
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
					Yes	0	0		-88
<b>Total SPL LAeq(15minute) (dB(A))</b>		<b>36</b>							

- (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 co
  - 8. Identify the level above background and/or noise mangement level (see rows 57 to 62).
  - 9. Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part o
  - 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 sl basis. Please contact a Roads and Maritime noise specialist for more information)





b. +25

Project name: RP2J, Scenario name: Linemarking, Receiver address: 83 Lookout Rd, New Lambton Heights (R2731), Select type of background noise level input: User input

Is all plant at the same representative distance to the receiver? Y/N: Y, Representative distance (m): 50, All at Representative Distance

Main noise assessment table with columns: Type/model plant, 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))

Total SPL LAeq(15minute) (dB(A)): 63

- (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). 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).

c. +15

Project name: RP2J, Scenario name: Linemarking, Receiver address: 83 Lookout Rd, New Lambton Heights (R2731), Select type of background noise level input: User input

Is all plant at the same representative distance to the receiver? Y/N: Y, Representative distance (m): 140, All at Representative Distance

Main noise assessment table with columns: Type/model plant, 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))

Total SPL LAeq(15minute) (dB(A)): 53

- (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). 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).



d. +5

Project name		RP2J							
Scenario name		Linemarking							
Receiver address		83 Lookout Rd, New Lambton Heights (R2731)							
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		56						
	Evening		49						
	Night		33						
L Aeq(15minute) Noise mangement level (dB(A))	Day		66						
	Day (OOHW)		61						
	Evening		54						
	Night		38						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		320							
All at Representative Distance									
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	117	92	1		No (behind substantial solid barrier)	0	-10	320	43
Light vehicles	90	65	1		No (behind substantial solid barrier)	0	-10	320	16
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	320	32
Generator	95	70	1		No (behind substantial solid barrier)	0	-10	320	21
					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
					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))					43				

(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

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 basis. Please contact a Roads and Maritime noise specialist for more information)

e. NML

Project name		RP2J							
Scenario name		Linemarking							
Receiver address		83 Lookout Rd, New Lambton Heights (R2731)							
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		56						
	Evening		49						
	Night		33						
L Aeq(15minute) Noise mangement level (dB(A))	Day		66						
	Day (OOHW)		61						
	Evening		54						
	Night		38						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		470							
All at Representative Distance									
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	117	92	1		No (behind substantial solid barrier)	0	-10	470	38
Light vehicles	90	65	1		No (behind substantial solid barrier)	0	-10	470	11
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	470	27
Generator	95	70	1		No (behind substantial solid barrier)	0	-10	470	16
					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
					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))					38				

(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

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 basis. Please contact a Roads and Maritime noise specialist for more information)







e. NML

Project name		RP2J							
Scenario name		Barriers							
Receiver address		335 McCaffrey Drive, Rantin Park (R2860)							
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		38						
	Evening		35						
	Night		26						
LAeq(15minute) Noise management level (dB(A))	Day		48						
	Day (OOHW)		43						
	Evening		40						
	Night		31						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		720							
<i>All at Representative Distance</i>									
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))
Fixed Crane	97	72	1		No (behind substantial solid barrier)	0	-10	720	13
Light vehicles	90	65	1		No (behind substantial solid barrier)	0	-10	720	6
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	720	22
Generator	98	73	1		No (behind substantial solid barrier)	0	-10	720	14
Pneumatic Jackhammer	115	90	1		No (behind substantial solid barrier)	0	-10	720	31
Small Hand Tools	95	70	1		No (behind substantial solid barrier)	0	-10	720	11
					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
					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
					Yes	0	0		-888
Total SPL LAeq(15minute) (dB(A))		31							

(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 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 sheet)

7. Barriers NCA 13 – R2731 (83 Lookout Road, New Lambton Heights)

a. Worst case

Project name		RP2J							
Scenario name		Barriers							
Receiver address		136 Lookout Rd, New Lambton Heights (R2754)							
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		56						
	Evening		49						
	Night		33						
LAeq(15minute) Noise management level (dB(A))	Day		66						
	Day (OOHW)		61						
	Evening		54						
	Night		38						
Is all plant at the same representative distance to the receiver? Y/N		Y							
Representative distance (m)		100							
<i>All at Representative Distance</i>									
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))
Fixed Crane	97	72	1		No (behind substantial solid barrier)	0	-10	100	37
Light vehicles	90	65	1		No (behind substantial solid barrier)	0	-10	100	30
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	100	46
Generator	98	73	1		No (behind substantial solid barrier)	0	-10	100	38
Pneumatic Jackhammer	115	90	1		No (behind substantial solid barrier)	0	-10	100	55
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	100	30
					Yes	0	0		-888
					Yes	0	0		-888
					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 LAeq(15minute) (dB(A))		55							

(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 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 sheet. Please contact a Roads and Maritime noise specialist for more information)



b. +25

Project name		RP2J	
Scenario name		Barriers	
Receiver address		136 Lookout Rd, New Lambton Heights (R2754)	
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	56
	Evening	49
	Night	33
LAeq(15minute) Noise management level (dB(A))	Day	66
	Day (OOHW)	61
	Evening	54
	Night	38

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	45 <i>All at Representative Distance</i>

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))
Fixed Crane	97	72	1		No (behind substantial solid barrier)	0	-10	45	44
Light vehicles	90	65	1		No (behind substantial solid barrier)	0	-10	45	37
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	45	53
Generator	98	73	1		No (behind substantial solid barrier)	0	-10	45	45
Pneumatic Jackhammer	115	90	1		No (behind substantial solid barrier)	0	-10	45	62
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	45	37
					Yes	0	0		-888
					Yes	0	0		-888
					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
					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
<b>Total SPL LAeq(15minute) (dB(A))</b>			<b>63</b>						

- (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 #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 basis. Please contact a Roads and Maritime noise specialist for more information)

c. +15

Project name		RP2J	
Scenario name		Barriers	
Receiver address		136 Lookout Rd, New Lambton Heights (R2754)	
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	56
	Evening	49
	Night	33
LAeq(15minute) Noise management level (dB(A))	Day	66
	Day (OOHW)	61
	Evening	54
	Night	38

Is all plant at the same representative distance to the receiver? Y/N	Y
Representative distance (m)	120 <i>All at Representative Distance</i>

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))
Fixed Crane	97	72	1		No (behind substantial solid barrier)	0	-10	120	34
Light vehicles	90	65	1		No (behind substantial solid barrier)	0	-10	120	27
Truck (>20tonne)	106	81	1		No (behind substantial solid barrier)	0	-10	120	43
Generator	98	73	1		No (behind substantial solid barrier)	0	-10	120	35
Pneumatic Jackhammer	115	90	1		No (behind substantial solid barrier)	0	-10	120	52
Small Hand Tools	90	65	1		No (behind substantial solid barrier)	0	-10	120	27
					Yes	0	0		-888
					Yes	0	0		-888
					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
					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
<b>Total SPL LAeq(15minute) (dB(A))</b>			<b>53</b>						

- (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 #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 basis. Please contact a Roads and Maritime noise specialist for more information)

