

# OOHW Approval Request Form

Out of hours work approval request form			
<b>No:</b>	<b>Notification date:</b>	<b>Approval date:</b>	<b>Project:</b>
10	22/04/2020		<b>MR82 Shared Path Bridge over Newcastle Road, Jesmond</b>
<b>A. Contact details</b>	<b>Name</b>	<b>Mobile number</b>	<b>Email</b>
Contractor Environmental Site Representative	James Douglas	0408 214 293	james.douglas@daracon.com.au
Contractor Construction Manager	Sebastian Farrell	0419 638 686	sebastianf@daracon.com.au
Contractor Foreman	Dan Bevan (Nexus)	0420 969 789	danial@nexuspower.com.au
Contractor Project Engineer	Tim Nolan	0408 776 964	tim.nolan@daracon.com.au
<b>B. Details of work:</b> Include a map showing location of work extent and nearest sensitive receivers	Location (Chainage):		<ul style="list-style-type: none"> <li>• Newcastle Rd, Coles St</li> </ul>
	NCA/s:		Works Location – <b>Refer Figure 1</b> <ul style="list-style-type: none"> <li>• NCA 5 – Various Locations</li> </ul>
	Description of works:		<p><b>Electrical Outage 6;</b>          Requires a co-ordinated power outage to;</p> <ul style="list-style-type: none"> <li>• Install new pole NP01 and the associated air brake switch.</li> <li>• Remove existing pole EP02.</li> <li>• Install new high and low voltage cable parallel to Newcastle Road from EP01, NP01 and NP02.</li> <li>• Install new level 2 connections perpendicular to Coles St.</li> <li>• Install new streetlight on NP02.</li> <li>• Remove redundant high and low voltage cable parallel to Newcastle Road.</li> </ul> <p>This OOHW activity will be staged as follows;</p> <ul style="list-style-type: none"> <li>• Removal of redundant streetlight within the median on Newcastle Road.</li> <li>• Install new pole NP01.</li> <li>• Remove existing high and low voltage cable.</li> <li>• Install new high and low voltage cable.</li> <li>• Remove EP02.</li> </ul> <p>This activity will be undertaken during OOHW period 1 (Evening) and OOHW period 2 (Night).</p>

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	Machinery/ plant to be used	2 x Elevated work platforms 2 x Crane-borer trucks 6 x Day makers 4 x Light Vehicles 10 x Personnel
	Traffic control measures required:	Newcastle Road eastbound shoulder and slow lane closure from approximately Hill St to Steel St for full duration of permissible ROL.  Newcastle Road west bound lane closure adjacent median, from approximately Robinson Ave to steel st, for duration of activity – Approximately 2hrs  Coles St - Current traffic controls will be maintained
	Lighting required:	Day makers will be required at various locations during this OOHW activity. Day makers will be mobile units and relocated during the works, to minimise the number required
	Proposed dates:	This OOHW activity is scheduled for the week commencing Monday 18 <sup>th</sup> May 2020. This activity will require two nights to complete, commencing Tuesday 19 May (night) and concluding Thursday 21 May 2020 (morning). This includes one-night contingency. No works will be undertaken during the weekend evening or night period.
	Proposed timings:	Start: 7:30pm Completion: 5.00am
	Justification - why does work need to occur outside of standard construction hours?:  (attach support information as required)	This activity requires a planned power outage co-ordinated with Ausgrid to undertake the necessary upgrade of electrical infrastructure. The power outage is scheduled during OOHW periods to limit the impact on affected residents.  Ausgrid and Daracon will require extended access to Newcastle Road to install new poles and string low voltage conductors parallel and perpendicular to Newcastle Road.

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<b>C. Risk assessment</b>	<p><b>Noise:</b> A risk assessment has been undertaken using a noise modelling tool to predict the expected noise impact at individual receivers for this OOHW activity. The input data for noise modelling included, the location of work activity, the type and quantity of plant and equipment, and the duration of operation.</p> <p>The noise modelling data was assessed against the relevant NML's and sleep disturbance criteria to determine the risk factor in accordance with the OOHW protocol.</p> <p><b>Vibration:</b> Plant required to undertake this OOHW activity will not encroach upon the minimum safe working distances.</p> <p>All plant are tyred equipment and will be restricted to existing roads, therefore predicted vibration levels are expected to be consistent with levels generated by existing traffic.</p> <p>Vibration levels are considered to be insignificant and are not expected to exceed the vibration criteria for 'Human Comfort' (BS528-2) or 'Structural Damage' (DIN 4150-3) of property.</p>
<b>NML (refer Table 3-2 of OOHW protocol)</b>	<p><b>NCA 2:</b> Evening – 48 Night - 40</p> <p><b>NCA 3:</b> Evening – 42 Night – 35</p> <p><b>NCA 5:</b> Evening – 56 Night – 46</p>
<b>Is the work highly noise intensive? (above 75dB(A) LAeq (15 minute))</b>	<p>The noise modelling has determined that this activity will not generate high noise levels (&gt;75dB)</p>
<b>Risk factor category (low or high):</b>	<p>Low <input type="checkbox"/> High <input checked="" type="checkbox"/></p> <p>Comments</p> <p>In accordance with the risk factors nominated within OOHW protocol, this work activity is considered to be high risk due to the following;</p> <ul style="list-style-type: none"> <li>• Works generating noise levels greater than 5dB A<sub>Leq(15minutes)</sub> above the Rating Background Level (RBL)</li> </ul>

<b>D. Details of noise or vibration assessment completed:</b>	<p>Comments:</p> <p><b>Noise Modelling;</b></p> <p>The noise modelling has been completed initially, by utilising the 'Noise Mitigation Tool' created by RCA (RCA Australia,) to predict sound levels at individual receivers and to allow the noise mitigation requirements to be determined in bulk. Upon further assessment of the predicted Noise levels generated by the RCA noise tool, a distance-based calculation has been applied to determine the distance of specific noise perception levels occurring at individual receivers and subsequently, to determine the mitigation measures to be implemented.</p> <p>Noise modelling has been completed for OOHW period 1 and 2, then the distance-based calculation applied to provide a visual representation of the noise impact, and to assist with the distribution of notifications.</p> <p><b>Attenuation Applied to Modelling;</b></p> <p>As the noise tool provides predicted levels assuming a direct line of sight to receivers, and therefore does not consider the effects of topography or attenuation provided by physical structures (retaining wall or residential properties), noise modelling was completed again with the inclusion of attenuation measures. This was undertaken to provide a more accurate representation of the impacts to receivers and predicted sound levels, and also to reduce the required number of notifications and/or mitigations measures.</p> <p>The attenuation measures applied within the supplementary noise modelling included;</p> <ul style="list-style-type: none"> <li>• Barrier height of 4m – average height of residential property.</li> <li>• Barrier height of 2 - 3m – existing retaining wall and embankment located on Newcastle Road</li> <li>• Distance of barrier (m) – distance between the property closest to the noise source (at a selected location relevant to the specific work activity) and the adjacent property. This distance ranged from 10m – 40m.</li> </ul> <p>The application of the above attenuation measures resulted in an average reduction of 7-10dB(A), by way of shielding from one residential property (acting as the barrier) to the next property.</p> <p><b>Noise Modelling Results;</b></p> <ul style="list-style-type: none"> <li>• Noise modelling has determined that this OOHW activity will not generate 'high noise' levels, that being, noise levels above (&gt;75dB(A)).</li> <li>• Predicted sound levels (dB(A)) have determined multiple receivers will be impacted by noise levels in excess of 5dB above the RBL.</li> <li>• The highest level of impact for the works is located 2A Hill St (62dB), which exceeds the NML for NCA 5 (46dB).</li> </ul> <p>The following NCA's will receive noise levels above the RBL during OOHW period 2 (Night – assuming attenuation from existing property/retaining wall); NCA 5, NCA 3</p> <p><b>OOHW Evening Period 1 – Assumes no Attenuation; Refer Figure 2</b></p> <ul style="list-style-type: none"> <li>• Noise Perception Level is 'Noticeable' (5-10dB(A)) to a distance of 310m</li> <li>• Noise Perception Level is 'Audible' (10-20dB(A)) to a distance of 150m</li> <li>• Properties potentially impacted - 148</li> </ul> <p><b>OOHW Night Period 2 – Assumes no Attenuation; Refer Figure 3</b></p> <ul style="list-style-type: none"> <li>• Noise Perception Level is 'Noticeable' (5-10dB(A)) to a distance of 721m</li> <li>• Noise Perception Level is 'Audible' (10-20dB(A)) to a distance of 413m</li> <li>• Noise Perception Level is 'Moderately Intrusive' (20-30dB(A)) to a distance of 26m</li> <li>• Properties potentially impacted - 716</li> </ul>
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### ***OOHW Night Period 2 – Attenuation Applied; Refer Figure 4***

- Noise Perception Level is 'Noticeable' (5-10dB(A)) to a distance of 310m
- Noise Perception Level is 'Audible' (10-20dB(A)) to a distance of 152m
- Noise Perception Level is 'Moderately Intrusive' (20-30dB(A)) to a distance of 26m
- Properties potentially impacted - 231

<b>E. Proposed Mitigation Measures</b>	<p>Scheduling and staging of the works has been planned in an effort to reduce the impact upon receivers. The works will be staged to ensure any pre-works can be achieved during standard construction hours, limiting the amount and operation of plant and equipment required during the OOHW periods.</p> <p>Works will be staged as follows;</p> <p><b>Pre-works;</b></p> <ul style="list-style-type: none"> <li>• Mobilisation of some items of plant</li> <li>• Preparation of work areas</li> <li>• Pre works will be completed within standard construction hours</li> </ul> <p><b>During Works;</b></p> <p>This OOHW activity will be staged as follows;</p> <ul style="list-style-type: none"> <li>• Removal of redundant streetlight (during OOHW Period 1 – Evening Only)</li> <li>• Install new pole NP01.</li> <li>• Remove existing high and low voltage cable.</li> <li>• Install new high and low voltage cable.</li> <li>• Remove EP02.</li> </ul> <p>This activity will be undertaken during OOHW period 1 (Evening) and OOHW period 2 (Night). The following standard mitigation measures will be implemented during this period;</p> <p><b>Standard Mitigation Measures;</b></p> <ul style="list-style-type: none"> <li>• Administrative controls, induction / toolbox consultation</li> <li>• Schedule noisier work to be carried out earlier in the period where feasible</li> <li>• All plant and equipment will be turned off when not in use</li> <li>• All plant and equipment will be serviced regularly and operated in accordance with the manufacturer's specifications</li> <li>• Use of non-tonal reversing alarms (squawkers) are used instead of reversing beepers</li> <li>• Radios used for communication to prevent the need for yelling</li> <li>• Provide supporting noise modelling to identify impacts to receivers and relevant mitigations in accordance to QA Specification G36.</li> <li>• Designated vehicle parking away from sensitive receivers</li> </ul> <p><b>Additional Mitigation Measures;</b></p> <p><b>Refer to Table 1</b> – for specific mitigation measures for individual receivers impacted by this OOHW activity. Additional mitigation measures will include;</p> <p><b>Notification (N);</b></p> <p>Advanced warning of works and potential disruptions will assist in reducing the impact on the community. The notification will consist of a letterbox drop (or</p>
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	<p>equivalent) detailing work activities, time periods over which these will occur, impacts and mitigation measures. Notification will be a minimum of 5 working days prior to the start of works.</p> <p><b><i>Individual Briefings (IB);</i></b></p> <p>Individual briefings will not be completed for this OOHW activity due to the current social distancing requirements imposed in response to Covid -19. Alternatively, consultation has been completed through a combination of phone calls, text messages, emails and letter notifications to inform stakeholders about the impacts of high noise activities and mitigation measures that will be implemented.</p> <p><b><i>Verifications (V);</i></b></p> <p>Noise and/or vibration levels are checked by taking site measurements. This will be in response to a complaint or to confirm a safe vibration working distance.</p> <p>It should be noted that there may be personal circumstances among the sensitive receivers where the above approach to specific additional mitigation measures is not best suited. The Community Liaison Relations Manager has the authority to amend the above approach taking into account due consideration of the personal circumstances that may apply.</p>
<p><b>F. Community Consultation carried out including details of community feedback and how this has been addressed</b></p>	<p>Residents have been distributed a notification about the OOHW which included a schedule of upcoming night works and were invited to provide feedback. This was distributed on 30th March 2020.</p> <p>Given the current circumstances regarding Covid-19 and restrictions relating to social distancing, Daracon's Community Liaison Manager has not conducted 'door knocking'.</p> <p>Impacted residents identified within the noise modelling have been contacted by phone, text messages, email or letter notification. No residents responded to the invitation to comment on this OOHW activity. Additionally, the community Liaison Manager has obtained the following community agreements in relation to OOHW;</p> <ul style="list-style-type: none"> <li>• Community Agreements – 34 agreements have been obtained. <ul style="list-style-type: none"> <li>• 16 agreements obtained from residents identified in the noise modelling as being impacted by the works.</li> <li>• 18 additional agreements obtained whilst door knocking previously conducted OOHW.</li> </ul> </li> </ul> <p>Ausgrid have also consulted with residents that will be directly impacted by the power outage and arranged for an alternative source of power for residents with special requirements.</p>

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<b>G. Respite framework – dates of previous respite periods, OOHW period 1 or 2, community agreements etc</b>	Respite to impacted residents has been considered when scheduling OOHW activities. This activity has been scheduled for 2 consecutive nights only, to minimise the impact to residents. However, the activity is expected to be completed within a single night period.		
<b>H. Details of non-residential receivers (if any) and corresponding NMLs</b>	<p>.</p> <p>The community liaison representative has contacted Jesmond Uniting Church, who has advised that the church has been temporarily closed from the 22 March until further notice.</p>		
<b>I. Are there any properties at risk of exceeding the screening criteria for cosmetic damage?</b>	Plant required to undertake this OOHW activity will not encroach upon the minimum safe working distances, therefore there is no risk of exceeding the criteria for cosmetic damage. Impacts for this OOHW will be consistent with existing traffic impacts.		
<b>J. Review/ Endorsements</b>			
<b>Contractor Community Liaison Representative</b>	Community notified	Date: 30/03/2020	
	The Community Liaison Representative (CLR) has completed targeted community consultation, which has included distribution of notifications (letter box drops) individual briefings with impacted resident and an email/SMS reminder will be sent prior to the OOHW.		
	Have the works been reviewed and endorsed? Yes / <input checked="" type="checkbox"/> No		
	Name:	Signature:	Date:
	Louise Neville		22/04/20
Comments: No complaints have been made directly to Daracon in relation to OOHW.			
<b>Roads and Maritime Environmental Manager (or delegate)</b>	Agreed mitigation measures: As this OoHW is similar to previous works that have not received requests or complaints from the community, no additional mitigation measures are required.		
	Have the works been reviewed and endorsed?	Yes	

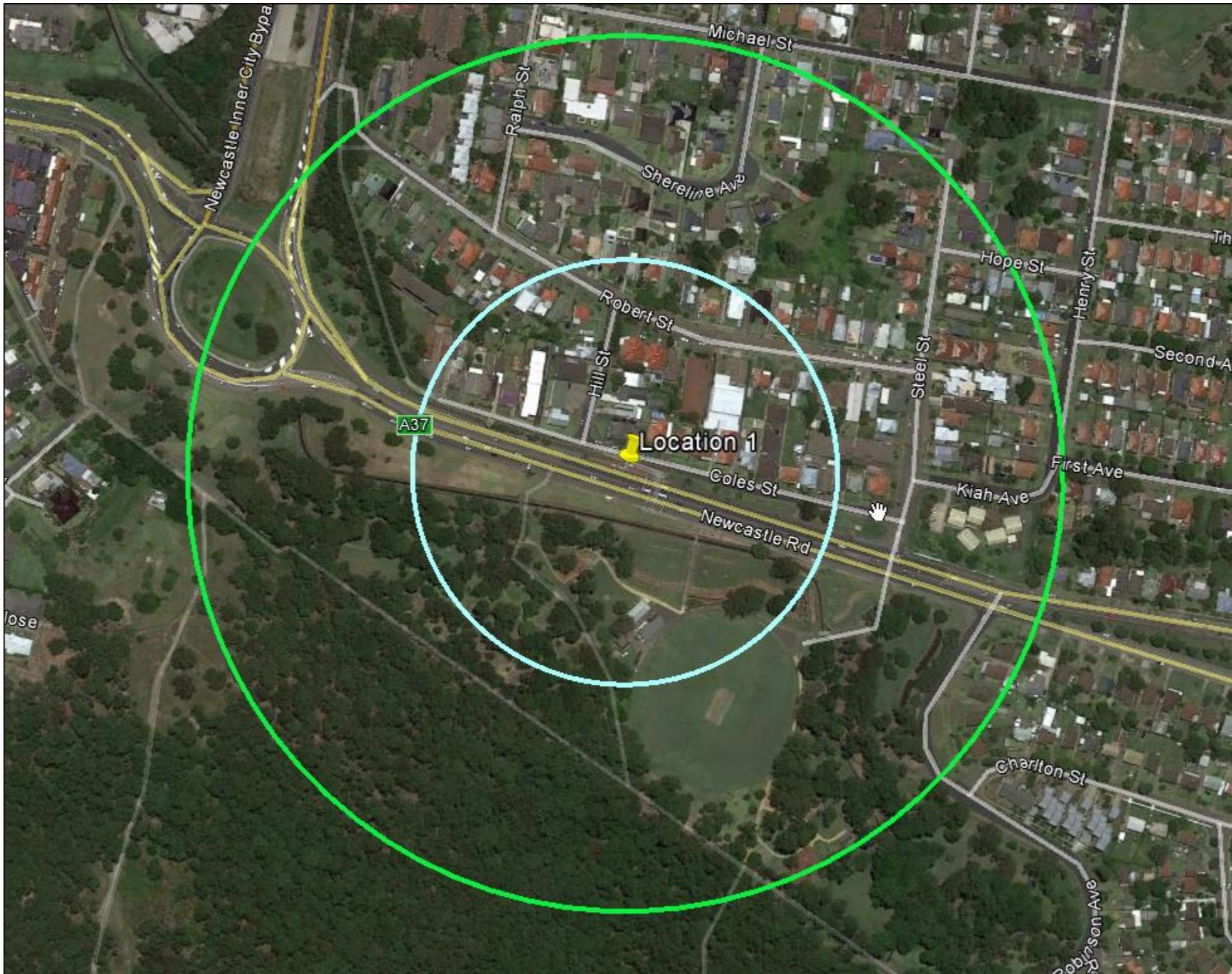
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	Name:	Signature:	Date:
	Stuart Pigott		11.5.20
	Comments:		
<b>Roads and Maritime Project Manager</b>	Have the works been reviewed and endorsed?		Yes / <input checked="" type="checkbox"/> No
	Name:	Signature:	Date:
	Michael Edwards		11/05/2020
Comments:			
<b>ER approval (low risk activities)</b>	Are the works approved?		Yes / No
	Name:	Signature:	Date:
	Comments:		
<b>Planning Secretary approval (high risk activities)</b>	Are the works approved?		Yes / No
	Name:	Signature:	Date:
	Comments:		

**Figure 1: Works Location**



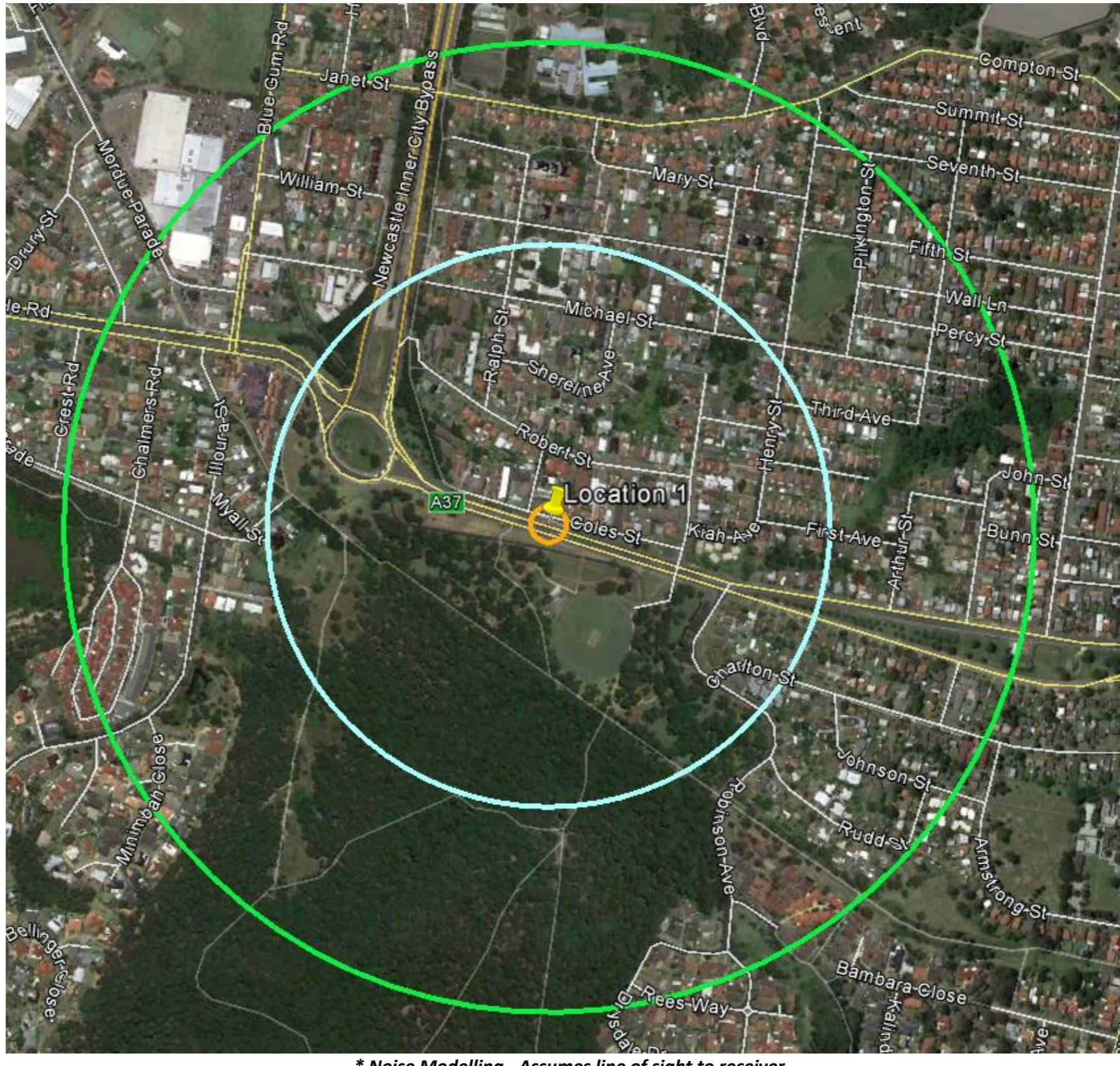
Figure 2: OOHW Evening Period 1 – No Attenuation Applied



\* Noise Modelling - Assumes line of sight to receiver

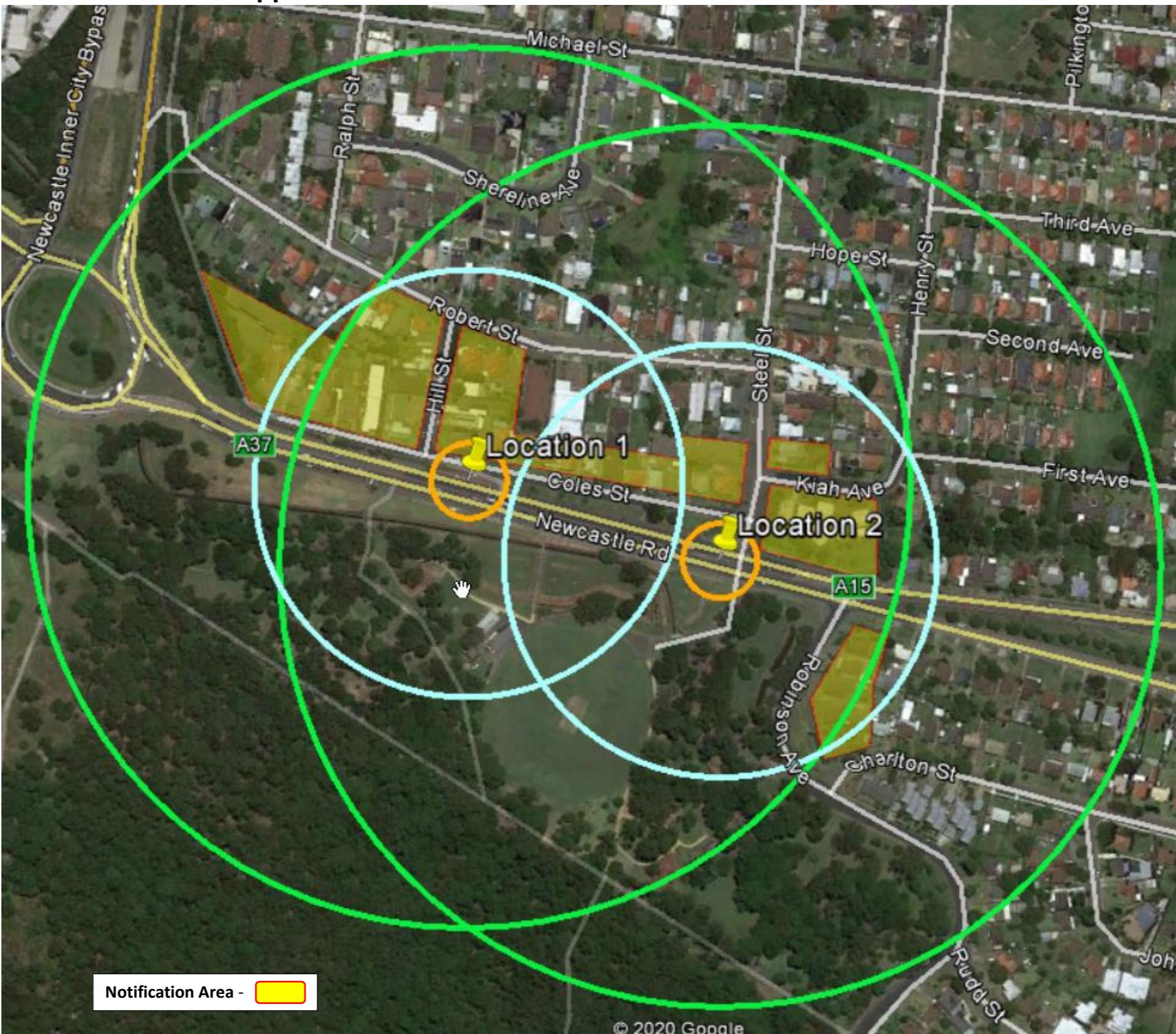
Perception Level	dB(A) Above RBL	Distance from Noise Source (m)	
Noticeable	5 - 10	310	<span style="background-color: green; display: inline-block; width: 10px; height: 10px;"></span>
Audible	10 - 20	150	<span style="background-color: cyan; display: inline-block; width: 10px; height: 10px;"></span>

Figure 3: OOHW Night Period 2 – No Attenuation Applied



Perception Level	dB(A) Above RBL	Distance from Noise Source (m)	
Noticeable	5 - 10	721	
Audible	10 - 20	413	
Moderately Intrusive	20 - 30	26	

Figure 4: OOHW Night Period 2 – Attenuation Applied



\*Attenuated noise modelling for Night period only, as this time period has the lowest noise criteria (NML)

\* Noise Modelling - Assumes an average reduction of 7-10dB(A), from shielding of existing property

Perception Level	dB(A) Above RBL	Distance from Noise Source (m)	
Noticeable	5 - 10	310	<span style="background-color: green; display: inline-block; width: 10px; height: 10px;"></span>
Audible	10 - 20	152	<span style="background-color: lightblue; display: inline-block; width: 10px; height: 10px;"></span>
Moderately Intrusive	20 - 30	26	<span style="background-color: orange; display: inline-block; width: 10px; height: 10px;"></span>