APPENDIX V

Noise and Vibration Assessment—Construction and Road Traffic

Part 1 of 4

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Inland Rail is a subsidiary of
Australian Rail Track Corporation

INLAND RAIL

Basis of Report

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Australian Rail Track Corporation Limited (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

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Executive Summary

Introduction

The Inland Rail – Border to Gowrie Project (the Project) is one of the interconnecting projects that make up the Inland Rail Program. It connects directly to the North Star to Border (NS2B) project in the south in NSW and the Gowrie to Helidon (G2H) project in the north-east.

The Project commences at NS2B Chainage (Ch) 30.6 km at the NSW/QLD border at the Macintyre River, approximately 18 km southeast of Goondiwindi. The Project runs northeast via Yelarbon, Inglewood, Millmerran, Pampas, Brookstead, Pittsworth, Southbrook and the Toowoomba Wellcamp Airport to Ch 208.2 km at Gowrie Junction, northwest of Toowoomba.

This noise and vibration assessment report has been prepared by SLR Consulting Australia Pty Ltd (SLR) to address the technical components of the Terms of Reference (ToR**)** Sections 11.117 to 11.126, and the additional requests for information from the Office of Coordinator-General following the public notification of the draft Environmental Impact Statement (EIS) for the Project. This report details the assessment of potential noise and vibration emissions from:

- The construction phase of the Project.
- The operational phase road traffic noise from new and upgraded roads associated with the Project.

Noise and vibration assessment criteria

The following regulatory framework, as referenced in the ToR, has been applied to the assessment of noise and vibration from the Project:

- The *Environmental Protection Act 1994* (EP Act) enables the framework for environmental assessments to be developed in Queensland. The objective of the EP Act is as follows:

  > *The object of the Environmental Protection Act 1994 is to protect Queensland's environment while allowing for development that improves the total quality of life, both now and in the future, in a way that maintains the ecological processes on which life depends.*

  The EP Act allows the Environment Minister to produce Environmental Protection Policies, designed to protect environmental aspects in Queensland.

- The EPP(Noise) is subordinate legislation under the *Environmental Protection Act 1994* (EP Act) and the environmental values to be enhanced or protected under the EPP(Noise) are:
  - The qualities of the acoustic environment that are conducive to protecting the health and biodiversity of ecosystems.
  - The qualities of the acoustic environment that are conducive to human health and wellbeing, including by ensuring a suitable acoustic environment for individuals to do any of the following: sleep, study or learn or be involved in recreation, including relaxation and conversation.
  - The qualities of the acoustic environment which are conducive to protecting the amenity of the community.

- The Department of Transport and Main Roads (DTMR) *Transport Noise Management Code of Practice* is structured into the following two volumes:
  - *Volume 1 – Road Traffic Noise* (CoP Vol 1) dated November 2013
  - *Volume 2 – Construction Noise and Vibration* (CoP Vol 2) dated May 2023 (gazetted 11 August 2023).

The assessment of noise and vibration from the construction phase and post-construction operational road traffic associated with the Project has been completed against the criteria from the above Codes.

Assessment methodology

The following summarises the methodology applied to this assessment:

- identification of the noise and vibration study area ensuring the assessment footprint is large enough to demonstrate compliance to the most stringent noise and vibration criteria
- identification and classification of noise and vibration sensitive receptors within the study area
- monitoring of ambient noise and vibration levels at representative locations across the Project
- processing the monitored data in accordance with the Codes to determine the ambient environment and Project specific assessment criteria
- modelling the construction and operation of the Project infrastructure (i.e. roads only) to predict noise and vibration levels at the surrounding sensitive receptors
- comparison of the predicted levels to the project noise and vibration criteria to determine the likely level of impact
- identification of mitigation measures to minimise and manage any predicted noise and vibration impacts.

Existing environment

The CoP Vol 1 and CoP Vol 2 identifies the receptors that can be potentially sensitive to construction and operational noise and vibration. The description of the various sensitive receptors referenced from the CoP Vol 1 and CoP Vol 2 are detailed in **Table E-1**.

Table E-1-1 Sensitive receptor types

Sensitive receptor type	Inclusion in the assessment
Accommodation activities	Caretaker's accommodation, community residence, dual occupancy, dwelling house, dwelling unit, home-based business, multiple dwelling, nature-based tourism, non-resident workforce accommodation, relocatable home park, residential care facility, resort complex, retirement facility, rooming accommodation, rural workers' accommodation, short term accommodation and tourist park.
Education establishments	Primary and secondary schools, colleges, technical institutes, universities or other educational institutions.
Childcare centres	Creches, early childhood centres, kindergartens and preschools.

Sensitive receptor type	Inclusion in the assessment
Health care services	Medical centres, health clinics, surgeries and other medical institutions.
Hospitals	Hospitals
Community uses	Courts of law, art galleries, community halls, libraries and museums.
Places of worship	Churches, mosques, temples, synagogues, etc.
Offices	Offices
Mixed use	A mix of the uses listed above.
Protected area	An area identified under a conservation plan as a critical habitat or an area of major interest under the *Nature Conservation Act 1992*.
Public open spaces	A public park or gardens that is open to the public (whether or not on payment of a fee) for use other than for sport or organised entertainment (passive recreation only).
Buildings and structures	Where susceptible to damage/disruption from construction vibration including heritage sites.

Over 8,000 buildings were identified within the 2 km study area radius (i.e. inclusive of all components of the Project such as the rail alignment, borrow pits, workers camps and the Turallin facility). Each building was assigned a unique identification number for the purpose of the assessment. The buildings that were clearly identified from aerial imagery as non-sensitive, such as silos, sheds and warehouses were not assessed as sensitive receptors but were retained in the assessment as they could provide screening of nearby sensitive receptors.

Of the buildings identified, 2,457 receptors were identified as being potential sensitive receptors. Most of the sensitive receptors are within 50 m to 1,500 m of the alignment and are concentrated around townships.

Baseline noise levels were monitored at 29 locations selected to be representative of the nearest communities to the Project. The noise monitoring results indicate the following:

- Existing background noise levels are generally low, typically below 40 dBA during the daytime and evening and below 35 dBA during the night-time.
- The Rating Background Levels (RBL) are characteristic of the steady-state rural noise environments where the main sources of noise are local road traffic, residential activities and natural sources, such as windblown vegetation and bird song.
- The noise levels highlight the potential sensitivity of the environment to the introduction of additional sources of noise associated with the construction phase of the Project.

Data from 12 of the monitoring sites was also processed to determine pre-construction road traffic noise levels within the study area. The road traffic noise monitoring was conducted in accordance with the CoP Vol 1 at locations representative of receptor catchments potentially impacted by new or upgraded roads associated with the Project. The purpose of the pre-construction road traffic noise monitoring included:

- providing baseline data for comparative assessment of pre and post construction noise levels
- determining the relevant assessment criteria based on pre-construction noise levels
- verifying the noise model by comparing measured and calculated noise levels.

Construction noise modelling and impacts

Predicted noise levels from the Project construction works have been assessed by the following approach:

- SoundPLAN version 8.2 computer noise modelling software has been used to predict $L_{Aeq,adj,15min}$ construction noise levels for the key construction stages. The prediction model considers the effect from ground topography, ground absorption, buildings and the location of the noise source and receptors within the study area.
- The acoustically significant construction activities/ stages of works have been broken into a series of construction scenarios (18 in total) each defined as a set of activities involving several scheduled equipment items, each operating within a specific area of authority, during specified times.
- In accordance with the CoP Vol 2, the ISO 9613 2:1996 *Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation* algorithm was used for the prediction of construction noise levels, which considers a slight downwind setting which enhances propagation from the source to receptor.
- The modelling conservatively assumed that the construction works would be carried out utilising standard work practices such as operating modern, serviced plant and equipment with engine covers, exhaust mufflers, etc, all operating continuously for a period of 15 minutes or more to provide a worst-case noise prediction.

In considering the above assessment methodology it is important to note the following assumptions and level of conservatism adopted for impact assessment purposes in this noise and vibration assessment:

- Predicated noise levels have assumed each construction scenario occurs at the work site boundary at the closest point to each receiver. As such it is expected that the actual construction noise levels would frequently be lower than predicted and reported for most construction activities.
- Assessments have assumed a worst-case scenario of multiple items of construction equipment in use at the same time within individual scenarios. Actual construction noise levels are expected to be lower than the predicted worst-case levels based on expected construction equipment use and typical practice.
- The assessed scenarios represent one possible way that the Project could be constructed and may not necessarily be the final methodology that the construction contractors engaged to construct the Project would use. The representative scenarios cover a range of noise producing activities, including noise intensive equipment, therefore are considered representative of the worst-case construction noise. The actual construction methodology, duration of construction activities and scheduling of works will be subject to confirmation by the construction contractor once engaged.

A conservative noise assessment assuming worse-case construction scenarios and adopting no additional noise mitigation measures has predicted construction noise levels that exceed the applicable criteria as follows:

- 46 of the 78 proposed laydown areas are predicted to exceed the Standard hours lower limit of 50 dBA $L_{Aeq,adj,15min}$ at the closest sensitive receptor, and in most cases at multiple receptor locations. 13 laydown areas are predicted to exceed the upper limit of 65 dBA $L_{Aeq,adj,15min}$ at sensitive receptors during Standard hours. The potential for reducing equipment noise emission levels through selection of quieter plant, shielding of noisy equipment with site sheds or storage containers or

temporary noise barriers will be investigated further during the detail design stage of the Project.

- Noise impacts are predicted from the concrete batch plant at laydown area LDN150.5 adjacent to the intersection of Ware Street and the Gore Highway at Brookstead. At this location the Standard hours lower limit is predicted to be exceeded (i.e. by up to 6 dBA) at the three closest sensitive (residential) receptors. Further assessment during the detailed design stage of the concrete batch plant is required to confirm the exceedance and allow for reasonable and practicable mitigation measures, such as acoustic screens, to be incorporated into the design prior to commissioning the site.
- A worst-case scenario modelled for the Whetstone Material Distribution Centre (MDC) has resulted in marginal 1 dBA exceedances being predicted at two sensitive (residential) receptors in proximity to the site. Noise mitigation requirements would be finalised during the detailed design stage of the Project to confirm the outcomes of this preliminary assessment, however it is expected that the MDC would be operated in compliance with the lower limit by restricting sandblasting activities to the Standard hours (daytime period) as well as conducting this activity within a partial acoustic enclosure.
- Uncontrolled, the assessment of noise from the six borrow pit sites has identified the potential for lower noise limit exceedances at two sites, namely:
  - Taits Red Ridge borrow pit: two exceedances at sensitive (residential) receptors by up to 5 dBA.
  - Heckendorf Road (south-east) borrow pits: an 11 dBA exceedance at the closest sensitive (residential) receptor with all proposed activities occurring simultaneously.

  Noise mitigation measures such as selection of the quietest available equipment, modification of construction activities and adjustment of hours, will be adopted to comply with the requirements of the CoP Vol 2.
- The earthworks stages of the Project are predicted to result in the highest impacts in terms of predicted noise levels and quantum of exceedances. Noise limit exceedances have been predicted for both residential and non-residential sensitive receptors including Yelarbon Soldiers Memorial Hall, Pampas Memorial Hall, Pampas Rural Fire Shed, Brookstead Hall and the Harvest New Life Church. The predicted exceedances are dominated by the operation of mulchers, dozers, scrapers and trucks. During the earthworks, all reasonable and practicable noise mitigation measures would need to be implemented.
- Worts-case noise levels predicted for 30 of the 34 Project bridge sites has identified exceedances of the 45 dBA $L_{Aeq,adj,15min}$ lower noise limit at sensitive receptors, with predicted noise levels varying depending on the construction stage and methodology. Most of the noise limit exceedances are predicted for residential receptors, but some marginal exceedances have been predicted for non-residential sensitive receptors including the Yelarbon Soldiers Memorial Hall, Brookstead Hall and the Harvest New Life Church at Pittsworth.
- Construction noise levels comparable to the earthworks stages have been predicted during rail civil and road civil works when these works occur in proximity to sensitive receptors. However, these stages of construction are expected to be significantly shorter in duration, particularly the sleeper and rail installation, and tamping and regulating stages which steadily progress along the rail alignment and therefore are likely to be managed through effective stakeholder engagement. Noise impacts

resulting from the rail and road civil stages of construction would be expected to be managed primarily through effective stakeholder engagement and the engineering controls outlined in this report.

For Project construction activities where the Standard hours upper limits and Non-Standard hours noise limits are predicted to be exceeded, mitigation measures will be mandatory and will in each instance involve community engagement with impacted sensitive receptors.

Construction vibration impacts

Safe working distances for all vibration intensive equipment potentially required to be operated on the Project have been calculated in order to avoid damage to sensitive buildings, structures and disturbance to human comfort. The assessment has identified sensitive residential receptors located within the conservative human comfort safe working distances applicable to the Project vibration intensive construction works. Consequently, it is recommended that human comfort vibration impacts are managed as follows:

- Insofar as practicable, avoid operating vibration intensive equipment during Non-Standard hours to prevent the risk of human annoyance triggered by exceeding the threshold of perception (i.e. 0.3 mm/s).
- Ensure all vibration sensitive receptors located within the conservative human comfort safe working distances are notified in advance of the potential for vibration levels to be perceptible during the Project construction works.

Blasting noise and vibration

The assessment of blasting impacts has involved calculating Maximum Instantaneous Charges (MICs) to achieve compliance with the CoP Vol 2 recommended airblast overpressure and ground vibration limits at the closest sensitive (residential) receptors to the blasting sites potentially required for the Project.

Based on the calculated MICs, blasting for the Project will potentially be constrained (in terms of MICs per delay) in some areas and require further detailed blast design and optimisation due to the proximity of sensitive receptors. It is important to note that the conservatively calculated MICs have been calculated from the closest offset distance between the blasting site and receptor. At all potential Project blasting sites, there is an opportunity to commence blasting at larger offset distances from sensitive receptors to refine the blast design to ensure that compliance with the blasting criteria is achieved for the Project.

Construction road traffic noise

The assessment of construction road traffic noise impacts has analysed roads where the addition of Project construction traffic is predicted to increase the forecast $L_{A10(1hr)}$ road traffic noise level by more than 3 dBA. The assessment indicates that up to 149 roads are predicted to experience an increase of 3 dB or more in road traffic noise level with the addition of Project construction vehicles. Up to 11 roads, all of which have low existing traffic volumes, are predicted to experience a very significant (i.e. 15 dBA or greater) increase in road traffic noise levels. However, it should be noted that absolute maximum noise levels associated with vehicle pass-bys on these roads would likely be unaltered by the Project construction vehicles (i.e. being a similar noise event to existing heavy vehicle movements on these roads), only the frequency of such events would increase.

During the detailed design stage of the Project, construction road traffic noise impacts would be subject to further assessment and development of mitigation measures such as:

- Management and scheduling of heavy movements including planning for deliveries to happen during Standard hours where feasible.
- Designating heavy vehicle routes, waiting areas, site entrances away from sensitive receptors.
- Signposting vehicle movement requirements.
- Best practice management over engine noise emissions by procurement and maintenance of a fleet that conforms to Australian Design Rule *Vehicle Standard (Australian Design Rule 83/00 — External Noise)* 2005.
- Adoption of airbag suspension throughout the fleet to minimise noise associated with empty trucks travelling over road irregularities.
- Satellite tracking and management of the position of the truck fleet to ensure that waiting queues are appropriate to space constraints, minimising noise from idling trucks.
- Where there are a relatively small number of sensitive receptors significantly impacted by construction vehicle noise, consideration should be given to providing at-property treatments to mitigate truck passby noise particularly for the night-time period.
- Communication with potentially impacted sensitive receptors to provide advance notice of the hours of construction vehicle movements, approximate number of vehicles (per hour and day) and particular nature of activities.

Construction noise and vibration mitigation

Project works will be designed, planned and implemented in a manner that maintains human health, ensures a suitable acoustic environment and avoids vibration related structural damage to all properties. Noise and vibration from construction activities will be managed consistent with the requirements of the CoP Vol 2.

The management of noise and vibration during construction will be administered by a Noise and Vibration Management Plan (NVMP) as a component of the CEMP to provide the structured approach to the management of noise and vibration issues with the objective of supporting delivery of the Project in a manner that maintains human health and wellbeing by ensuring a suitable acoustic environment. The NVMP will define the processes, responsibilities and all reasonable and practicable management measures that will be implemented during construction. The CEMP will be developed by the Proponent (ARTC) and their nominated contractor/s and endorsed by the Environmental Monitor consistent with Conditions of Approval and all relevant laws, prior to the commencement of any relevant Project works.

The NVMP will present updated assessments of noise and vibration based on the construction work programs and verify the findings of this assessment. The NVMP will address the predicted noise and vibration emissions based on the finalised construction work programs and the location specific works planned along the Project. The NVMP will demonstrate the management of noise and vibration from construction work activities consistent with the requirements of the CoP Vol 2 and other applicable legislative and Project requirements including details of monitoring during construction works to inform the management of potential impacts and confirm the application of reasonable and practicable noise and vibration management measures.

All Project construction activities, including pre-construction and early works will be managed in accordance with the NVMP which will include:

- Construction noise and vibration criteria
- Construction activities including plant and equipment
- Time periods of construction activity
- Locations of construction activity
- Reasonable and practicable mitigation and management measures for both Standard hours and, where required, Non-Standard hours work
- Community liaison requirements and complaint procedures

Mitigation measures required for construction to achieve the environmental outcomes, will be implemented in consultation with affected stakeholders and will be in place ahead of and during the Project works. The performance of the Project works will be monitored and actively managed, in accordance with the noise and vibration management plan, with periodic reporting available.

The NVMP will include the community notification process to advise of significant works with potential for noise nuisance or vibration at sensitive receptors and surrounding residences/premises. Details will be provided on the locations and procedures for pre and post-condition surveys and noise and vibration measurements in response to validated complaints. Sensitive receptors will be consulted regarding predicted noise and vibration construction impacts including advance notification with details including expected dates and durations of construction activities that may result on noise and vibration being experienced within local communities.

Noise and vibration will be monitored during construction works to inform the management of potential impacts and confirm the application of reasonable and practicable noise and vibration management measures.

Works that have a minimal risk of noise and vibration impacts provide an opportunity to work outside the standard hours and benefit local communities and landowners by completing the works in a reduced timeframe.

In addition to applying standard work practices during the construction of the Project, reasonable and practicable mitigation and management measures will be required to all works conducted by the contractor where noise and/ or vibration levels are predicted to exceed the CoP Vol 2 limits. These reasonable and practicable measures, which will be included in the NVMP, are detailed in **Table E-1-2**.

Table E-1-2 Reasonable and practicable mitigation and management measures

Site or tasks	Mitigation and management measures
Establishment of laydown areas	• limiting the number of dump trucks and graders (actual numbers to be confirmed during detailed design) • Selection of quietest available dump trucks or use of noise source controls, such as the use of residential class mufflers. Limiting the number of equipment and using noise source

Site or tasks	Mitigation and management measures
	controls can achieve reductions in noise levels in the order of 5 to 10 dBA. • Advance stakeholder engagement and ongoing regular communications on the activities and progress of the works shall be provided to the community (e.g. via newsletter, email and/or website)
Accommodation camps	Construction and operation of the temporary accommodation camps are predicted to comply with the CoP Vol 2, therefore no mitigation measures are required at this stage. Nonetheless, the accommodation camps will be further assessed during the detailed design stage and reasonable and practicable mitigation measures developed if required.
Temporary concrete batch plants	Given the preliminary stage of the design of the concrete batch plant, further assessment during the detailed design stage is required to confirm compliance or otherwise with the CoP Vol 2 and allow for reasonable and practicable mitigation measures to be incorporated into the design. Reasonable and practicable mitigation measures may include selection of quieter plant, careful design/ layout of the site to direct noise away from sensitive receptors, acoustic screening of elevated components, shielding provided by other site structures (e.g. offices, crib rooms, toilet blocks etc).
Whetstone MDC	• Plant selection and acoustic design to limit the noise from the sand blasting activity to no more than 125 dBA SWL. Acoustic design options could include the addition of acoustic screening to the specific item of plant associated with the sand blasting activity and adding attenuators to fan inlets, outlets or treatment to duct work. • Plant selection to limit the noise from the electric conveyor motors to no more than 101 dBA SWL. If more than 10 conveyor motors are needed, then a reduced SWL for each unit may be required.
Borrow pits	Operation of the D10 dozer during site establishment, rock hammering and/or crushing and screening activities required at the Taits Red Ridge and Heckendorf Road (south-east) borrow pits be restricted to Standard Hours.
Earthworks	• Earthworks to be completed during Standard hours unless monitoring demonstrates compliance with the CoP Vol 2 Non-Standard hours limit or where works are required as per the requirements detailed in **Section 2.2.2**. • Using the quietest available equipment to complete the works. • Locating the loudest equipment as far as practicable from sensitive receptors. As an example, felled trees can be transported to mulchers. • Locating noisy equipment behind objects (e.g. stockpiles, sheds, temporary barriers) to provide shielding. • Provision of respite periods or preferred noise intensive periods. • Consideration of the following where the application of all reasonable and practicable mitigation measures (including respite periods) are deemed to be ineffective: o Property treatments where longer-term impacts (i.e. >6 months) associated with the Project are identified.

Site or tasks	Mitigation and management measures
	o Temporary (short-term) alternative accommodation for the duration of impact. • preparation works prior to blasting are expected to primarily take place during Standard hours, however, may also be undertaken during Non-Standard hours where compliance with the CoP Vol 2 can be demonstrated
Drainage	• Where available, equipment selection will favour the use of quieter and less vibration emitting construction methods. • Avoid the simultaneous operation of noisy plant within discernible range of noise sensitive receptors where possible. • Advance notification of the works to all stakeholders and regular communications on the activities and progress of the works.
Bridge construction	• Conducting community consultation with all sensitive receptors predicted to exceed the noise limits in advance of the works occurring at each bridge site. It is important that the discussion of reasonable and practicable mitigation measures with affected parties consider the overall duration of bridge construction works and exposure of noise levels at any individual receptor. • Use of the quietest available equipment to undertake the works particularly during Non-Standard hours works. • Locating of noisy equipment to maximise shielding in the direction of sensitive receptors (e.g. adjacent to bridge abutments or embankments, within cuttings etc). • Acoustic screening around the driven piling rigs. Commercially available acoustic screens can provide as much as 15 dBA reduction in noise emission.
Rail civil	• Conducting community consultation with all sensitive receptors predicted to exceed the noise limits in advance of the works occurring clearly communicating the expected duration of the rail civil works. • Use of the quietest available equipment to undertake the works particularly during Non-Standard hours works.
Road civil	• Conducting community consultation with all sensitive receptors predicted to exceed the noise limits in advance of the works occurring clearly communicating the expected duration of the rail civil works. • Use of the quietest available equipment to undertake the works particularly during Non-Standard hours works.

There is potential for noise intensive construction works undertaken close to sensitive receptors to result in impacts even where reasonable and practicable mitigation and management are implemented. Under these circumstances, the contractor shall implement additional management measures commensurate with the impacts, which for impacted receptors will include consideration of respite, alternative accommodation or alternative agreements.

Operational road traffic noise

A conservative screening assessment was carried for all 72 road segments modified by the Project to identify where the CoP Vol 1 road traffic noise criteria may potentially be

exceeded. Where the predicted future road traffic noise level exceeded or was within 2 dBA of the applicable criterion, a detailed assessment was undertaken.

The detailed road traffic noise assessment considered:

- the pre-construction road traffic noise measurement results
- verification of a 3-D noise model against the measurement results, and
- 3-D model predictions of the year of completion of construction of the Project and future (i.e. 10-year horizon) road traffic noise levels.

The 10-year horizon road traffic noise levels are predicted to exceed the CoP Vol 1 noise criteria at ten residential receptors and three of the community receptors without additional noise mitigation. These 13 sensitive receptors are located along non-accessed controlled roads, which under the guidance of CoP Vol 1, do not qualify for noise treatment. However, it is recommended that at-property treatments be investigated for these impacted sensitive receptors with the aim of reducing road traffic noise intrusion.

Summary

Based on the findings of this assessment, it is considered that the noise and vibration impacts predicted to result from the construction of the Project and subsequent operational road traffic can be managed in accordance with the requirements of the ToR, CoP Vol 1 and CoP Vol 2 provided the recommendations outlined in this report or equivalent are implemented.

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Acronyms and Abbreviations

Term / Abbreviation	Explanation
ARTC	Australian Rail Track Corporation
AS	Australian Standard
B2G	Inland Rail – Border to Gowrie Project
BS	British Standard
CEMP	Construction Environmental Management Plan
Ch	Chainage (km)
dB	Decibel
dBA	A-weighted decibel (referenced 20 µPa)
dBL	Unweighted decibel
DES	Department of Environment and Science
DIN	Deutches Institut für Normung (German Institute for Standardisation)
DTMR	Department of Transport and Main Roads
EIS	Environmental Impact Statement
G2H	Gowrie to Helidon project
HDPE	High Density Polyethylene
Hz	Hertz
ISO	International Standards Organisation
Kg	Kilograms
Km	Kilometres
Km/h	Kilometres per hour
Km^2	Square kilometres
L_{Aeq}	Equivalent continuous sound level
$L_{Aeq,adj,15min}$	A-weighted equivalent sound level measured in decibels over a period of 15 minutes and adjusted for tonal or impulsive characteristics
$L_{Aeq(T)}$	The equivalent continuous sound level for a defined time period 'T'.
L_{Amax}	The maximum sound level during the measurement or assessment period. The L_{AFmax} or Fast is averaged over 0.125 of a second and the L_{ASmax} or Slow is averaged over 1-second.
L_{ASmax}	The A-weighted maximum sound pressure level with slow response
L_{A10}	The A-weighted sound pressure level exceeded for 10% of the measurement period.
$L_{A10(1hour)}$	The A-weighted sound pressure level which is exceeded for 10% of the measurement period (1 hour)
$L_{A10(12hour)}$	The arithmetic average of the $L_{A10(1\ hour)}$ for each of the 12 one hour periods between 6:00 am and 6:00 pm
$L_{A10(18hour)}$	The arithmetic average of the $L_{A10(1hour)}$ from 6:00 am to 12:00 am
L_{A90}	The A-weighted sound pressure level exceeded for 90% of the measurement period

Term / Abbreviation	Explanation
OCG	Office of the Coordinator General
m	Metres
MDC	Material distribution centre
MIC	Maximum Instantaneous Charge
mm	Millimetres
mm/s	Millimetres per second
m/s	Metres per second
m^3	Cubic metres
NS2B	North Start to Border project
NSW	New South Wales
PPV	Peak Particle Velocity
QLD	Queensland
QR	Queensland Rail
RBL	Rating Background Level - is the overall single-figure background level representing each work period and is derived from determining the background noise level for each work period using the tenth percentile method of measured LA90,1 hour. Noise levels measured in each work period of each day are ranked from the lowest to highest with the lowest tenth percentile position taken by multiplying the number of samples within each work period by 0.1. Taking the median of background levels over all days for each work period as the RBL.
SDPWO	*State Development and Public Works Organisation Act 1971*
SEL	Sound Exposure Level
ToR	Terms of Reference

1.0 Introduction

1.1 Project overview

The Inland Rail – Border to Gowrie Project (the Project) is one of the interconnecting projects that make up the Inland Rail Program. It connects directly to the North Star to Border (NS2B) project in the south in NSW and the Gowrie to Helidon (G2H) project in the north-east.

The Project commences at Chainage (Ch) Ch 30.6 km (NS2B) at the NSW/QLD border, the median line of the Macintyre River, approximately 18 km south-east of Goondiwindi. The Project runs northeast via Yelarbon, Inglewood, Millmerran, Pampas, Brookstead, Pittsworth, Southbrook and the Toowoomba Wellcamp Airport to Ch 208.2 km at Gowrie Junction, northwest of Toowoomba.

The Project is a 217.48 km section of new dedicated single track, open access freight railway comprising 7.0 km of standard gauge rail (1,435 mm) and 210.48 km of dual standard/narrow gauge rail (1,435 mm standard and 1,067 mm narrow). The new railway will comprise approximately 149.48 km of new rail corridor (greenfield) and approximately 68.00 km of existing rail corridor (brownfield), that forms part of Queensland Rail's (QR) South Western Line and Millmerran Branch Line.

The Project design has been developed in response to environmental, engineering and social constraints. The design objectives were to minimise environmental impacts, minimise disturbance to existing infrastructure and utilities and meet the engineering design criteria.

Table 1-1 Anticipated timing of the Project stages and activities

Year	Year 0				Year 1				Year 2				Year 3				Year 4				Year 5			
Duration (quarterly years)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Detailed Design																								
Project Approvals and Corridor Acquisition																								
Pre-Construction Activities and Early Works																								
Construction Works																								
Commissioning																								
Operations																								

The Project is one of the missing links within the Inland Rail Program, connecting directly to the NS2B and G2H projects. The Project provides a more direct route between Melbourne and Brisbane in comparison with the existing inland rail and coastal and road and rail networks and meets the Commonwealth Government's objective of providing a long-term rail solution for competitive freight movement.

The anticipated timing of the Project stages and activities is presented in **Table 1-1** and an overview of the site is presented in **Figure 1-1**.

1.2 Scope and Objectives of the Report

This technical report has been prepared by SLR to support the Border to Gowrie revised draft Environmental Impact Statement (the EIS), specifically EIS Chapter 16: Noise and Vibration.

The scope of this noise and vibration impact assessment is to:

- Identify baseline noise and vibration levels at sensitive receptors, which could potentially be affected by noise and vibration emission from the Project.
- Assess the impact of the Project on sensitive receptors that may occur during construction of the Project.
- Assess operational road traffic noise associated with new and upgraded roads associated with the Project.
- Describe noise management strategies to be implemented for the Project.

In this report, the “construction phase” is taken to include all subsidiary phases nominated in the Project Description, so includes enabling works, pre-construction and early works and construction activities. The “operational phase” refers to the period that follows the completion of the construction phase of the Project.

500 km

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:148,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- State Boundaries
- Accommodation Camps
- Borrow Pits
- Turallin Miscellaneous Facility
- Whetstone MDC

Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Project Overview

FIGURE 1-1 MAP 1 OF 7

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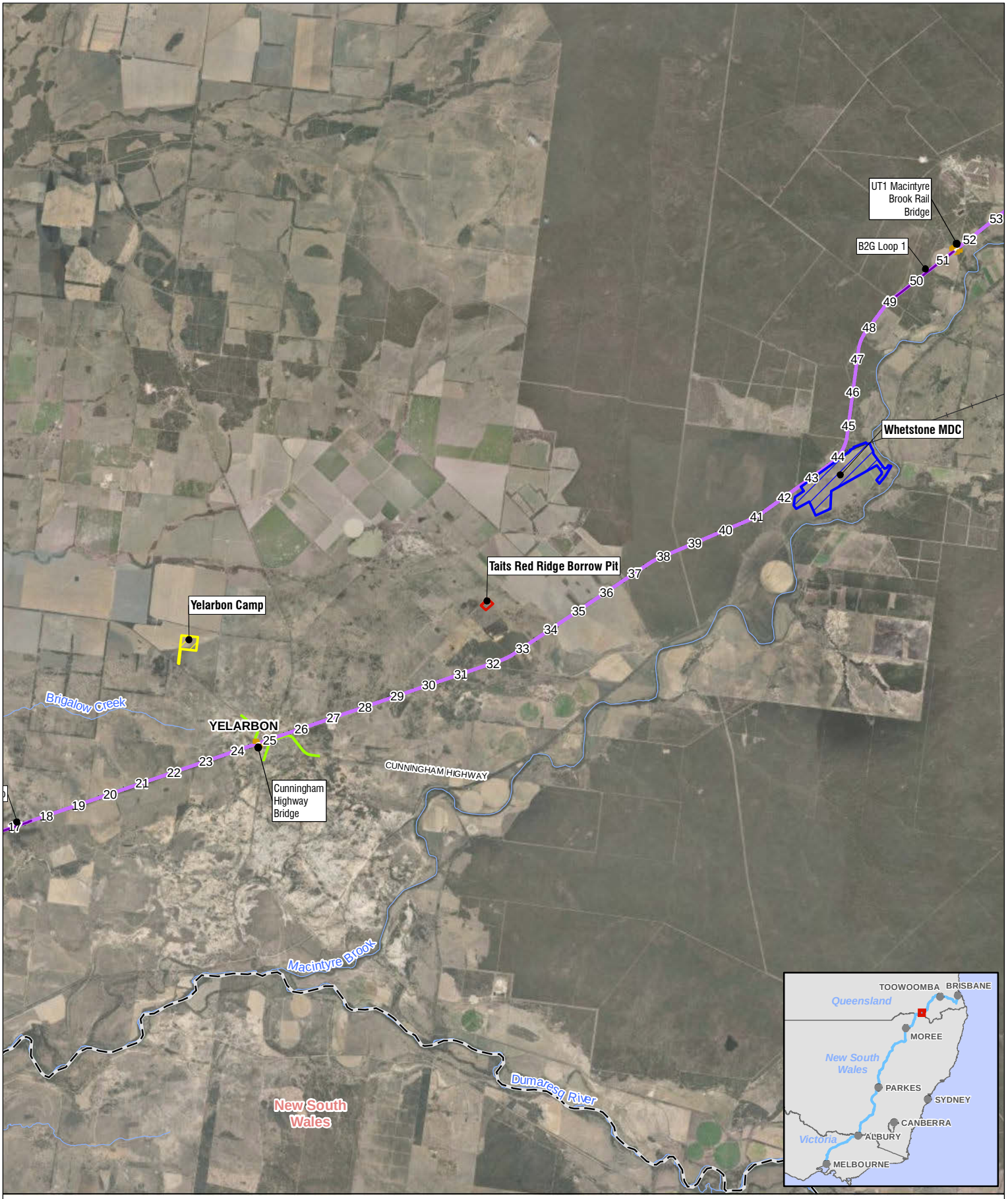

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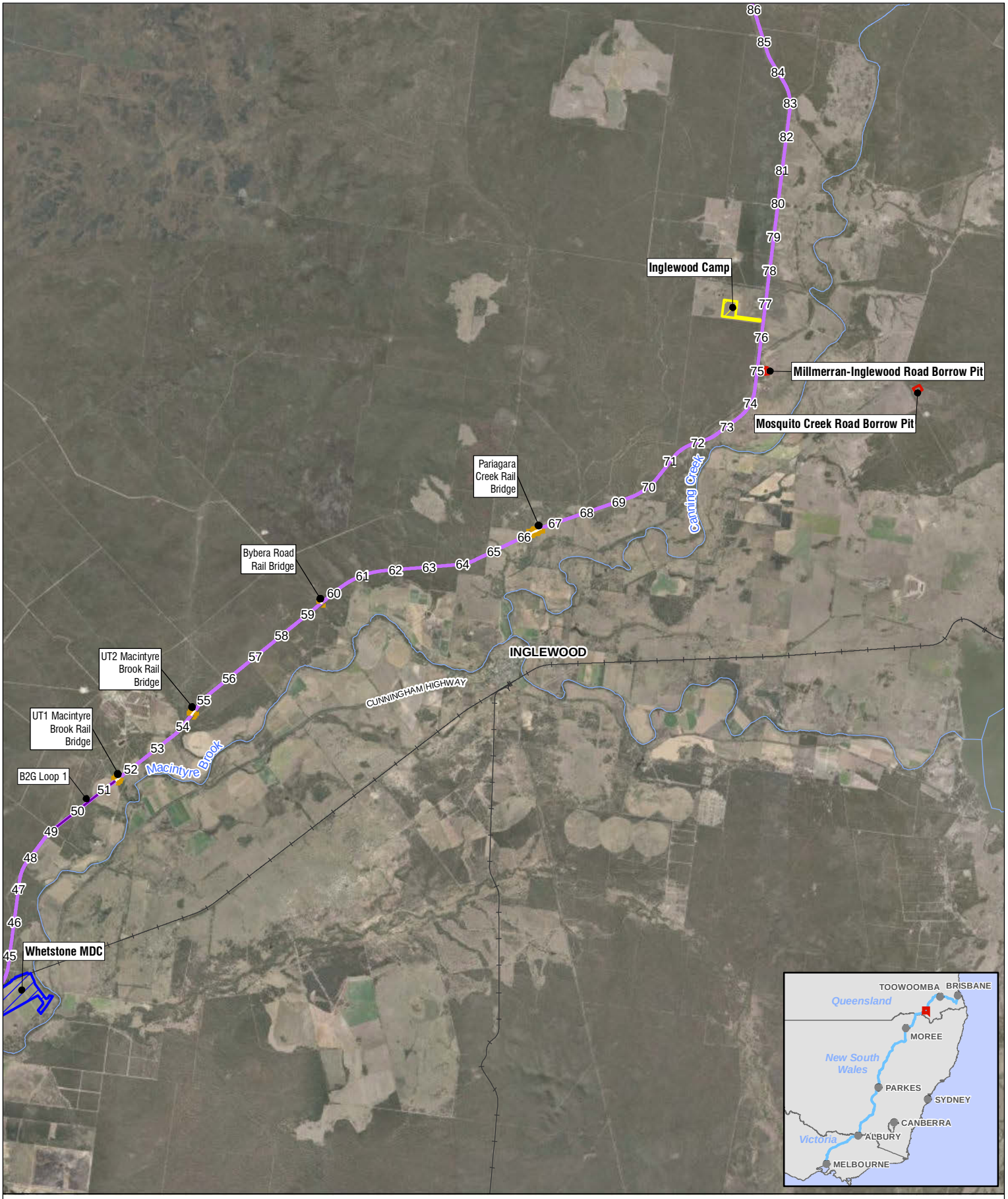
INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Project Overview

FIGURE 1-1 MAP 2 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Overview.mxd



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INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Project Overview

FIGURE 1-1 MAP 3 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Overview.mxd

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Data Sources:
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INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Project Overview

FIGURE 1-1 MAP 4 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Overview.mxd

500 km

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Data Sources:
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INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Project Overview

FIGURE 1-1 MAP 5 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Overview.mxd

500 km

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Scale:	1:148,000 at A4
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Date:	12-Nov-2024
Drawn by:	JG

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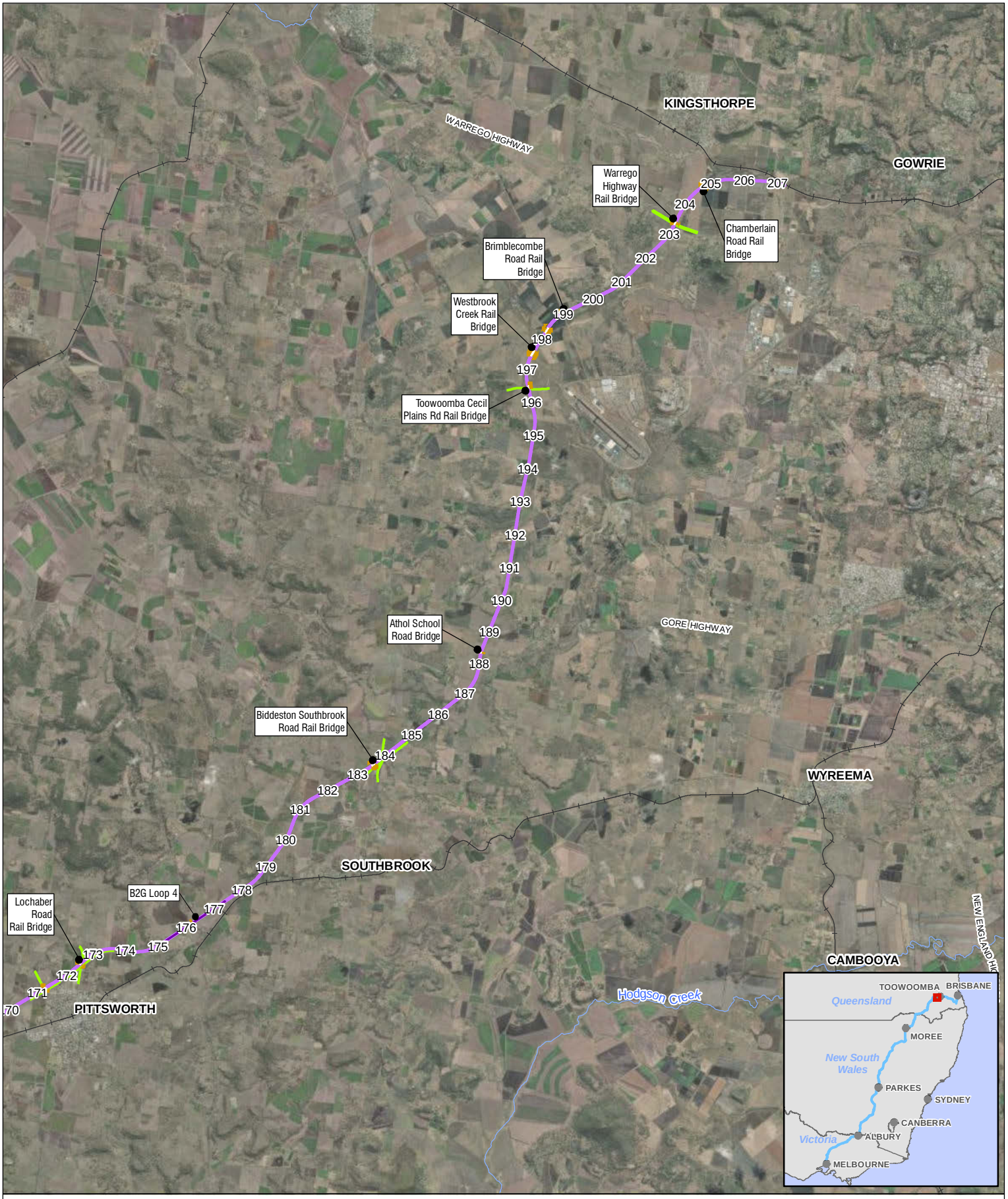
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Project Overview

FIGURE 1-1 MAP 6 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Overview.mxd



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INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Project Overview

FIGURE 1-1 MAP 7 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Overview.mxd

1.3 Terms of Reference requirements

This technical report has been prepared to address the additional requests for information issued by the Office of Coordinator-General following the public notification stage as well as sections 11.117 to 11.126 of the Terms of Reference (ToR). A compliance check of this report against each of the relevant components of the ToR is presented in Appendix A1: ToR Cross Reference and is also presented in **Table 1-2**. Relevant sections of the ToR have also been addressed in Appendix W: Operational Railway Noise and Vibration Technical Report of the EIS.

Table 1-2 ToR compliance check – Noise and Vibration

Item	Requirement	Report section
ToR - Existing environment		
11.117	Describe the existing noise and vibration environment that may be affected by the project in the context of the environmental values.	Section 4.0
11.118	Describe and illustrate on maps at a suitable scale, the location of all sensitive noise and vibration receptors adjacent to all project components and estimate typical background noise and vibration levels based on surveys at representative sites.	Section 4.0 and Appendix A
11.119	If the proposed project could adversely impact on the noise and vibration environment, undertake baseline monitoring at a selection of sensitive receptors potentially affected by the project. Describe the results of any baseline monitoring.	Section 5.0
ToR - Impact assessment		
11.120	Describe the characteristics of the noise and vibration sources that would be emitted when carrying out the activity (point source and general emissions). Describe noise and vibration emissions (including fugitive sources) that may occur during construction, commissioning and operation.	Section 6.1
11.121	Predict and map the impacts of the noise and vibration emissions from the construction and operation of the project on the environmental values of the receiving environment, including sensitive receptors. The assessment of impacts on noise and vibration should be in accordance with the following: (a) EPP (Noise) 2008, using recognised quality assured methods (b) Environmentally Relevant Activities - DES Application Requirements for ERAs with noise impacts (Guideline ESR/2015/1838) (c) Construction - The Department of Transport and Main Roads Transport Noise Management Code of Practice: Volume 2 - Construction Noise and Vibration dated March 2016 and gazetted on 29 July 2016 (d) Operational Noise – The Department of Transport and Main Roads Policy for Development on Land Affected by Environmental Emissions from Transport and Transport Infrastructure Version 4 (October 2017) (Rail noise external	Section 6.1, Section 8.0 and Appendix C to J

Item	Requirement	Report section
	criteria contained in Table 3 of the document) (refer to Appendix 1) (e) Operational Vibration – British Standard BS 6472-1:2008 Guide to evaluation of human exposure to vibration in buildings – Vibration sources other than blasting. British Standards Institution, London (f) any additional railway noise and vibration guidance documents released by the State of Queensland.	
11.122	Discuss separately the key project components likely to present an impact on noise and vibration for the construction and operation phases of the project.	Section 2.0, Section 6.0 and Section 8.0
11.123	Taking into account the practices and procedures that would be used to avoid or minimise impacts, the impact prediction must address the: (a) activity's consistency with the objectives of documentation referenced in 11.122 (b) cumulative impact of the noise and vibration with other known emissions of noise associated with existing major projects and/or developments and those which are progressing through planning and approval processes that are publicly available (c) potential impacts of any low-frequency (<200 Hz) noise emissions.	Section 6.1.1 and Section 9.0
ToR - Mitigation measures		
11.124	Describe how the proposed project would be managed to be consistent with best practice environmental management for the activity. Where a government plan is relevant to the activity, or the site where the activity is proposed, describe the activity's consistency with that plan.	Section 6.1, Section 6.1.5 and Section 8.0
11.125	Describe any expected exceedances of noise and vibration goals or criteria following the provision or application of mitigation measures and how any residual impacts would be addressed.	Section 6.1, Section 6.1.5 and Section 8.0
11.126	Describe how the achievement of the objectives would be monitored and audited, and how corrective actions would be managed.	Section 8.0

1.4 Report limitations

The findings of this report are based on the current reference design and construction methodology and may change as the Project design progresses. Should the final design or construction methodology vary from the basis of this assessment, the noise and vibration levels and associated impacts may differ from the findings presented in this report and this report will need to be revised accordingly.

Preliminary mitigation measures have been presented in this assessment. However, finalised mitigation measures, reflective of the construction methodology, will need to be developed as a component of the Construction Environmental Management Plan (CEMP).

2.0 Key Project detail

2.1 Overview

The key design components of the Project are summarised in **Table 2-1**. The table also provides references to the relevant sections of the report where the key Project components have been assessed.

Table 2-1 Key components of the Project

Component	Detail	Report section
Non-resident workforce accommodation	2 sites: Lot 30 on MH721 (Cunningham Highway, Yelarbon) Lot 5 on MH75 (Millmerran-Inglewood Road, Inglewood)	**Section 6.1.1.2**
Material distribution centre (MDC)	A temporary (construction phase only) facility to be used for material laydown area, storage and distribution. The proposed MDC is to be located at Whetstone approximately 18 km south-west of Inglewood on a development footprint of 212.62 hectares (ha) (i.e, part of Lot 2 on MH784, Lot 4 on MH287, Lot 76 on MH313, Lot 74 on MH313 and Lot 352 on SP116434)	**Section 6.1.1.5**
Laydown areas	78 with areas ranging in size from 3,000 to 304,000 m^2	**Section 6.1.1.1**
Cut volume (total)	11,368,000 m^3 (rail) 90,700 m^3 (road)	**Sections 6.1.1.8** and **6.1.1.9**
Maximum cut depth	21 m	**Sections 6.1.1.8** and **6.1.1.9**
Fill volume (total)	11,876,000 m^3 (rail) 802,300 m^3 (road)	**Section 6.1.1.8**
Maximum fill depth	21 m	**Section 6.1.1.8**
Bridges	37	**Section 6.1.1.11**
Bridge length (total)	12,043 m	**Section 6.1.1.11**
Concrete batch plants and pre-cast laydown	2 sites: • B2G-LDN138.5 • B2G-LDN150.5	**Section 6.1.1.4**
Borrow pits	6 sites: • Mooroobie Lane • Taits Red Ridge • Mosquito Creek Road • Millmerran-Ingelwood Road • Kooroongarra Andersons Road • Heckendorf Road (two borrow pits at this site)	**Section 6.1.1.6**

Component	Detail	Report section
Culverts	Reinforced concrete box culverts: 1,090 cells in 123 locations Reinforced concrete pipes: 2,074 pipes in 216 locations	**Section 6.1.1.10**
Rail length (Ch 30.60 km (NS2B) to Ch 208.22 km)	Standard gauge: 7.0 km Dual gauge: 210.48 km Total: 217.48 km	**Sections 6.1.1.12** to **6.1.1.14**
Rail interfaces (tie-ins)	12 in total: • QR South Western Line: o Connection at Kildonan, towards Goondiwindi o Connection at Whetstone, towards Warwick o Turnouts to existing sidings and loops (six locations). • QR Millmerran Branch Line: o Connection at Millmerran o Connection at Yarranlea o Turnouts to existing sidings (two locations)	**Sections 6.1.1.12** to **6.1.1.14**
State-controlled road interfaces:	7 roads in 9 locations: • 2 active level crossing • 5 Grade separation: rail-over-road • 2 Grade separation: road-over-rail	**Sections 6.1.1.15** to **6.1.1.16**
Local government road interface treatments	Goondiwindi Regional Council: • 6 Passive level crossing • 8 Active level crossing • 2 Grade separation: rail-over-road (no road-over-rail grade separation) Toowoomba Regional Council: • 1 Passive level crossing (stock route) • 12 Active level crossing • 9 Grade separation: rail-over-road • 3 Grade separation: road-over-rail	**Sections 6.1.1.15** to **6.1.1.16**

The Project will involve pre-construction activities, early works and construction activities. Pre-construction activities and early works having potential to generate noise and/or vibration include:

- Site preparation.
- Establishment of access roads/tracks.
- Establishment of site offices and initial laydown areas.
- Establishment of non-resident workforce accommodation.
- Fencing, utilities/services, roads and other works required to support.

Construction activities having potential to generate noise and/or vibration include:

- Establishment of additional laydown areas and compounds, including vehicle inspection/workshops, washdown facilities and temporary fencing.
- Clearing using dozers, chainsaws, excavators, trucks and similar equipment.
- Establishment of erosion and sediment controls.
- Rail corridor works, including track works, turnouts and crossing loops.
- Road and road-rail interface works.
- Rail maintenance access roads.
- Bridge construction.
- Laydown, stockpile, and storage areas (that are not for enabling works).
- Ballast supply, delivery and installation.
- Concrete sleepers supply, delivery and installation.
- Bulk earthworks including major cut-to-fill operations involving the winning of suitable construction material from sections of cut along the Project alignment or from borrow pits external to the site.
- Permanent and temporary drainage controls, including culverts and longitudinal drainage.
- Landscaping, site restoration and rehabilitation.

2.2 Construction hours

2.2.1 Primary hours of construction

The primary hours of construction for the Project are detailed in the revised draft EIS Chapter 5: Project description. The CoP Vol 2 defined work periods, which the Project construction activities have been assessed against, are discussed in **Section 3.3.1.1**.

2.2.2 Works outside the primary hours of construction

Depending on the nature of the works some activities may need to be undertaken outside of the CoP Vol 2 Standard hours. The anticipated scenarios where the Standard hours construction works would be extended to include works during Non-Standard hours include:

- Work during rail corridor possession. Where works are required within the active railway corridor of the South-Western system it will be necessary to undertake works under track possessions, during which the contractor has control over an existing railway corridor. Extended work hours may be required during this time to enable works to be undertaken safely and to shorten the overall duration of disruption to the rail industry during the necessary closure of the South-Western system during construction works.
- The delivery of oversized plant or structures that police or other authorities have determined requires special arrangements to transport along public roads.
- Emergency work to avoid the loss of life or damage to property, or to prevent or contain environmental harm.
- Works to ensure construction personnel, road user or public safety.

- In the event of significant weather approaching the construction site and protective works are required or weather sensitive works must be completed.
- Delivery of 'in time' concrete, steel, and other construction materials and components delivered to site by heavy vehicles.
- Movements of heavy plant and materials.
- Transport, assembly, or decommissioning of oversized plant, equipment, components, or structures.
- Works that require continuous construction support, such as continuous concrete pours, pipe-jacking or other forms of ground support necessary to avoid a failure or construction incident.
- Works that cannot be undertaken during the day due to ambient daytime temperatures such as rail tamping where the stress-free temperature of the rail cannot be achieved during the primary hours of construction
- Haulage along the rail corridor.
- Roadworks to local and arterial roads, including works required to maintain the safety of motorists and workers.
- Traffic-control crews, including large truck mounted crash attenuator vehicles, medium rigid vehicles, and lighting towers.
- Incident response including tow-trucks for light, medium and heavy vehicles.
- Arrival and departure of construction staff during shift change-overs.
- Where a negotiated agreement is reached with sensitive receptors (owners and occupiers) to carry out works in accordance with the construction hours specified in the negotiated agreement.

Where works are required outside of the Standard hours of construction, site-specific assessments, for example noise and vibration, would be undertaken to demonstrate the environmental impacts, and risks associated with the works can be managed consistent with relevant guidelines and requirements. The assessments would determine the additional measures required to mitigate the identified impacts and support the justification of construction hours at the work locations.

When work is required outside of the Standard hours of construction, such as night work and material deliveries, it will be carefully planned and subject to appropriate controls, particularly to mitigate noise and vibration impacts. The planning process will include consultation with affected individuals, the local community, and stakeholders to inform them of the proposed work, any anticipated impacts, and the measures implemented to control potential impacts.

3.0 Regulatory framework

The following sections summarise the regulatory framework referenced in the ToR and applied to the assessment of noise and vibration from the Project.

3.1 Queensland Environmental Protection Act 1994

The *Environmental Protection Act 1994* (EP Act) enables the framework for environmental assessments to be developed in Queensland. The EP Act is applicable to all members and bodies in the community, including industry and government. It provides a method for

government departments to incorporate environmental factors into their decision-making process.

The objective of the EP Act is as follows:

> *The object of the Environmental Protection Act 1994 is to protect Queensland's environment while allowing for development that improves the total quality of life, both now and in the future, in a way that maintains the ecological processes on which life depends.*

There is a general environmental duty to prevent and minimise environmental harm under section 319 of the EP Act. The EP Act specifically states:

> *A person must not carry out an activity that causes, or is likely to cause, environmental harm unless the person takes all reasonably practicable measures to prevent or minimise the harm (the general environment duty).*

To decide the measures required to meet the general environmental duty in accordance with the EP Act, regard must be had to:

- the nature of the harm or potential harm.
- the sensitivity of the receiving environment.
- the current state of technical knowledge for the activity.
- the current state of successful application of the different measures that might be taken.
- the financial implications of the different measures as they would relate to the type of activity.

The EP Act allows the Environment Minister to produce Environmental Protection Policies, designed to protect environmental aspects in Queensland. The *Environmental Protection (Noise) Policy* (EPP(Noise)), detailed in **Section 3.2**, was developed under this framework in 2008, with the most recent revision being published in August 2019 and coming into force as of 1 September 2019.

3.2 Queensland Environmental Protection (Noise) Policy 2019

The EPP(Noise) is subordinate legislation under the *Environmental Protection Act 1994* (EP Act) and the environmental values to be enhanced or protected under the EPP(Noise) are:

- The qualities of the acoustic environment that are conducive to protecting the health and biodiversity of ecosystems.
- The qualities of the acoustic environment that are conducive to human health and wellbeing, including by ensuring a suitable acoustic environment for individuals to do any of the following: sleep, study or learn or be involved in recreation, including relaxation and conversation.
- The qualities of the acoustic environment which are conducive to protecting the amenity of the community.

The EPP(Noise) contains management hierarchy that must be considered by an administering authority when making an environmental management decision involving noise that affects, or may affect, an environmental value to be enhanced or protected under the EPP(Noise). It is given effect via decisions under the EP Act or any other legislative or statutory instrument that refers to the management hierarchy from EPP(Noise).

The management hierarchy establishes an approach to avoiding, minimising or managing noise. Noise must be dealt with, to the extent it is reasonable to do so, in the following order of preference:

1. Avoid – emphasis should be placed on avoiding noise by locating an activity in an area to minimise noise such as locating the activity away from a sensitive receptor
2. Minimise – in the following order of preference:

   a. orientate, design and layout of land uses and equipment including placing a part of the activity that makes noise away from a sensitive receptor

   b. use best available technology
3. Manage – operational management measures to avoid or minimise noise impacts (e.g. using heavy machinery only during business hours).

The purpose of the noise management hierarchy is to:

- Manage behaviours in the context of protecting the environment and promoting the achievement of ecologically sustainable development.
- Provide high level principles to guide decision making.
- Describe preferred pathways in decision making to:
  - Enhance the environment
  - Protect the environment
  - Minimise harm to the environment.

It should be noted that the EPP(Noise) does not apply to construction or road traffic noise however it is important to recognise the environmental values that must be protected (as listed above) in the context of the EIS.

3.3 Department of Transport and Main Roads Transport Noise Management Codes of Practice

The Department of Transport and Main Roads (DTMR) *Transport Noise Management Code of Practice* is structured into the following two volumes:

- *Volume 1 – Road Traffic Noise* (CoP Vol 1) dated November 2013
- *Volume 2 – Construction Noise and Vibration* (CoP Vol 2) dated May 2023 (gazetted 11 August 2023).

CoP Vol 2 has been gazetted under Section 551 of the EP Act. The CoP Vol 2 has requirements for various stages of projects and is a means of demonstrating compliance with the general environmental duty under the EP Act. DTMR's Road Traffic Noise Volume 1 is also relevant to the extent that new or modified roads are required in support of the Project. The assessment of noise and vibration from the construction phase and post-construction operational road traffic associated with the Project has been completed in accordance with the above Codes.

3.3.1 Construction noise and vibration

3.3.1.1 CoP Vol 2 assessment periods

The CoP Vol 2 contains defined work periods which are detailed in **Table 3-1**. These work periods are used to determine the applicable criteria for works depending on the day of the week and hours which they are occurring.

Table 3-1 CoP Vol 2 defined work hours

Work period	General construction		Blasting
Standard hours–-daytime	Mon – Fri	7:00 am to 6:00 pm	Mon – Fri 9:00 am to 3:00 pm
	Sat	8:00 am to 1:00 pm	Sat 9:00 am to 1:00 pm
Non-Standard hours – day/evening	Mon – Fri	6:00 pm to 10:00 pm	Generally, blasting is not to be conducted outside Standard hours.
	Sat	7:00 am to 8:00 am	
	Sat	1:00 pm to 10:00 pm	
	Sun	7:00 am to 10:00 pm	
Non-Standard hours – night-time	Mon – Sun	10:00 pm to 7:00 am	

Note: Public holiday periods are taken to be the same periods as defined for Sunday.

The CoP Vol 2 also notes the following:

- Construction activities with the potential for significant impacts should be discouraged, if possible, in the night-time period.
- The Standard hours defined in **Table 3-1** may potentially be extended into the Non-Standard hours where construction works are associated with major arterial roads which already exhibit high traffic noise levels due to high traffic volumes.

3.3.1.2 General noise criteria

For dwellings, including hotels and motels, noise emissions associated with general construction activities are assessed using the external facade corrected noise criteria presented in **Table 3-2**, based on the existing RBLs.

The noise criteria presented in **Table 3-2** should be used to manage construction noise as follows:

- Standard hours – work within Standard hours should be encouraged where possible. All reasonable and practicable measures should be implemented to achieve the lower limit. Exceedance of the upper limit requires immediate action and community consultation to determine further mitigation measures.
- Non-Standard hours – all reasonable and practicable measures should be implemented to achieve the lower limit. If exceeded, community consultation should be conducted for further mitigation measures.

The CoP Vol 2 also notes that where construction noise levels commercial and retail facilities are required to be assessed, the upper limits may be utilised. Where these premises include external uses such as outdoor dining/sports venue, it may be reasonable to minimise construction activity during the time that most trade is conducted (for example, lunchtime, sporting games).

Table 3-2 CoP Vol 2 construction noise criteria

Work period		External noise level, $L_{Aeq,adj.15\ min}$ [4,5] (dBA)	
		Lower limit	Upper limit
Standard hours	Monday – Friday 7:00 am to 6:00 pm Saturday 8:00 am to 1:00 pm	RBL + 10 [1,2,3]	75 where: RBL >55
			70 where: 40< RBL ≤55
			65 where: RBL ≤40
Non-Standard hours – day/evening	Monday – Friday 6:00 pm to 10:00 pm Saturday 7:00 am to 8:00 am Saturday 1:00 pm to 10:00 pm Sunday 7:00 am to 10:00 pm	RBL + 5 [3]	RBL + 5 [3]
Non-Standard hours – night-time	Monday – Sunday 10:00 pm to 7:00 am	RBL + 5 [3]	RBL + 5 [3]

Note 1: RBL + 5 dBA should be considered where a facility, equipment and long-term earthworks are required in an area for greater than six months. Where this occurs, the minimum lower limit is 45 dBA for Standard hours.

Note 2: Where the lower limit value exceeds the upper limit value, the lower limit is taken to equal the upper limit value.

Note 3: Minimum lower limit is 50 dBA for Standard hours and 45 dBA for Non-Standard hours. A maximum lower/upper limit of 75 dBA applies to Non-Standard hours.

Note 4: Noise contribution from construction activity determined as the component level (that is, noise from construction only).

Note 5: The noise level from construction includes adjustment factors in Table 2.1.2.1(b) (for example, low frequency noise, impulsivity, tonality, intermittency and modulation).

Based on the noise measurement results in **Section 5.4**, the noise limits applicable to this construction noise assessment are summarised in **Table 3-3**. For consistency across the Project, the lowest RBLs have been applied to define the construction noise criteria. By adopting the lowest RBLs, the most stringent criteria have been applied which is a conservative assessment approach.

Table 3-3 Project external construction noise criteria

Receptor type	Work period	External noise level, $L_{Aeq,adj.15\ min}$ (dBA)	
		Lower limit	Upper limit
Residential receptors	Standard hours (for work areas ≥6 months)	45	65
	Standard hours	50	65
	Non-Standard hours – day/evening	45	45
	Non-Standard hours – night-time	45	45
Non-residential and non-critical receptors [1]	Standard hours	65	
	Non-Standard hours – day/evening	45	
	Non-Standard hours – night-time	45	

Note 1: Applies to commercial buildings (including retail and offices), active recreation areas and passive recreation areas.

The CoP Vol 2 also prescribes that internal airborne construction noise criteria be met where reasonable and practicable for the sensitive receptor types listed in **Table 3-4**.

As noted in **Section 5.1**, the individual sensitive receptors for which the criteria in **Table 3-4** relates, are shown in the maps provided in **Appendix A**.

Table 3-4 Internal construction noise criteria for sensitive receptors

Location	Internal noise limit $L_{Aeq,adj,15\ min}$ (dBA)
Hospital & health care service (wards, surgeries, operating theatres, consulting rooms)	40
Educational establishment (rooms designated for teaching/research purposes) & childcare centre	45
Community use & place of worship	45

To assess the noise model predicted external noise levels against the internal (indoor) noise limits presented in **Table 3-4**, the noise limits are adjusted by a facade correction which accounts for the reduction of noise achieved by the building (with windows open). For the educational establishments and community buildings potentially impacted by the Project, a conservative 7 dB facade noise reduction has been applied, in the absence of actual measurement data, based on the guidance provided in DES *Noise and Vibration EIS Information Guideline* recommended for typical Queensland buildings. Accordingly, noise levels within the educational and community receptor buildings would be expected to achieve the internal noise limit (in **Table 3-4**) where the external noise level is not more than:

- $L_{Aeq,adj,15min}$ 52 dBA

Further to the above, sound insulation testing of facades typically representative of the educational buildings at Yelarbon State School, Brookstead State School, Pittsworth State High School and Southbrook Central State High were measured by WSP (WSP Report *B2G Inland Rail Background Noise Monitoring and Facade Sound Insulation testing* dated 21 February 2023). The results of these test, presented as the Weighted Sound Level Difference (D_W) rating are summarised as follows:

- Yelarbon State School: classroom facade = 26 dB D_W (equates to an external limit of 71 dBA $L_{Aeq,adj,15min}$)
- Brookstead State School: classroom facade = 28 dB D_W (equates to an external limit of 73 dBA $L_{Aeq,adj,15min}$)
- Pittsworth State High School: classroom facade = 38 dB D_W (equates to an external limit of 81 dBA $L_{Aeq,adj,15min}$)
- Southbrook Central State School: classroom facade = 32 dB D_W (equates to an external limit of 77 dBA $L_{Aeq,adj,15min}$)

The above Dw values are spectral averages and actual facade noise reductions will depend on the frequency content of the construction noise.

For potentially impacted hospital and health care service buildings, it will be necessary to consult with the hospital or service provider prior to construction to ascertain the nature of the exposed facades (e.g. windows and doors remain closed, type of building materials etc) with measurement of the actual facade noise reduction likely to be completed.

3.3.1.3 Groundborne noise criteria

Noise that propagates through a structure as vibration and is radiated by vibrating wall and floor surfaces is termed 'groundborne noise' or 'regenerated noise'. This noise originates as vibration and propagates between the source and receptor through the ground and/or building structural elements, rather than through the air.

Typical sources of groundborne noise include tunnelling works using road headers or tunnel boring machines, which are not proposed for this Project. Where other sources of groundborne noise from the Project is observed, the CoP Vol 2 groundborne noise criteria presented in **Table 3-5** shall be met where reasonable and practicable.

Table 3-5 Construction groundborne noise criteria

Location	Groundborne noise limit	
	Work period	L_{ASMax} (dBA)
Accommodation activity (including hotels or other premises which provides accommodation for the public)	Standard hours	40
	Non-Standard hours – day/evening	35
	Non-Standard hours–- night	
Hospital & health care service (wards, surgeries, operating theatres, consulting rooms)	All	35
Educational establishment (rooms designated for teaching/research purposes) & childcare centre	While in use	35
Court of law (court rooms)		30
Court of law (court reporting and transcript areas, Judges' chambers)		35
Community use & place of worship		40
Commercial (offices)		40
Retail facility		45

3.3.1.4 Blasting criteria

Sections of non-rippable rock are anticipated within some of the cuttings along the alignment, particularly in the northern part of the alignment. The extent to which drilling and blasting is required for the Project will be subject to further geotechnical investigation by the construction contractor. If blasting is the preferred technique, the airblast and ground vibration limits recommended in the CoP Vol 2 and summarised in **Table 3-6** shall be met where reasonable and practicable.

Table 3-6 CoP Vol 2 recommended blasting noise and vibration criteria

Assessed	Location	Blasting limit
Airblast – human comfort	Sensitive receptors	Not more than 115 dB(Linear) for 9 out of any 10 consecutive blasts, and not more than 120 dB(Linear) for any blast

Assessed	Location	Blasting limit
	Occupied non-sensitive sites, such as factories and commercial premises	125 dB(Linear) maximum unless agreement is reached with the occupier that a higher limit may apply
Airblast – damage control	Structures that include masonry, plaster and plasterboard in their construction and unoccupied structures of reinforced concrete or steel construction	133 dB(Linear) maximum unless agreement is reached with the occupier that a higher limit may apply
Ground vibration – human comfort	Sensitive receptors	Not more than 5 mm/s Peak Particle Velocity (PPV) for 9 out of any 10 consecutive blasts and not more than 10 mm/s for any blast
	Occupied non-sensitive sites, such as factories and commercial premises	25 mm/s maximum unless agreement is reached with the occupier that a higher limit may apply
Ground vibration – damage control	Buildings of special value or significance (may include historical buildings, monuments)	2.5 mm/s [1]
	Sensitive structures (e.g., residential dwellings, schools, community buildings etc)	15 mm/s at 4 Hz, increasing to 20 mm/s at 15 Hz, increasing to 50 mm/s at 40 Hz and above [2]
	Occupied non-sensitive structures of reinforced concrete or steel construction (e.g., factories and commercial premises)	50 mm/s maximum
	Unoccupied structures of reinforced concrete or steel construction	100 mm/s maximum unless agreement is reached with the occupier that a higher limit may apply

Note 1: Based on the heritage criterion from German Standard DIN 4150 – Part 3 – *Structural Vibration in Buildings – Effects on Structures 2016* (DIN 4150).

Note 2: As per the vibration criteria recommended in British Standard 7385: *Part 2-1993 Evaluation and measurement for vibration in buildings Part 2* (BS 7385).

3.3.1.5 Vibration criteria

Human comfort vibration criteria

The CoP Vol 2 recommends lower and upper vibration limits, in terms of PPV based on guidance from British Standard (BS) 5228-2:2009 *Code of practice for noise and vibration control on construction and open sites – Part 2: Vibration* (BS 5228 Part 2). The human comfort vibration limits relevant to the project are presented in **Table 3-7**.

The CoP Vol 2 acknowledges that the lower limits are generally considered to be just perceptible if just exceeded and the upper limits are considered to cause significant annoyance if exceeded. Accordingly, all reasonable and practicable measures should be implemented to achieve the lower limit. If the upper limit is exceeded, immediate action is recommended including extensive community consultation with the goal of determining further mitigation measures.

Table 3-7 Human comfort vibration criteria

Receptor type	Work period	Resultant PPV (mm/s)	
		Lower limit	Upper limit
Dwellings (including hotels and motels)	Standard hours	1.0	2.0
	Non-Standard hours – day/evening	0.3	1.0
	Non-Standard hours – night-time		
Educational facilities	While in use	0.3	1.0
Court of Law (Court rooms)			
Court of Law (Court reporting and transcript areas, Judges' chambers)			
Medical/health buildings	All		
Commercial (offices) and retail areas	While in use	1.0	2.0
Community use & place of worship			

Building damage criteria

With respect to relevant vibration damage criteria, the CoP Vol 2 recommends the consideration of the building damage criteria contained in BS 7385. BS 7385 is a Standard against which the likelihood of building damage from ground vibration can be assessed. Sources of vibration which are considered in BS 7385 include blasting, demolition, piling, ground treatments (i.e. compaction), construction equipment, tunnelling, road and rail traffic and industrial machinery.

The guide values from BS 7385 for transient vibration judged to result in a minimal risk of cosmetic damage to residential buildings and industrial buildings are presented in **Table 3-8**.

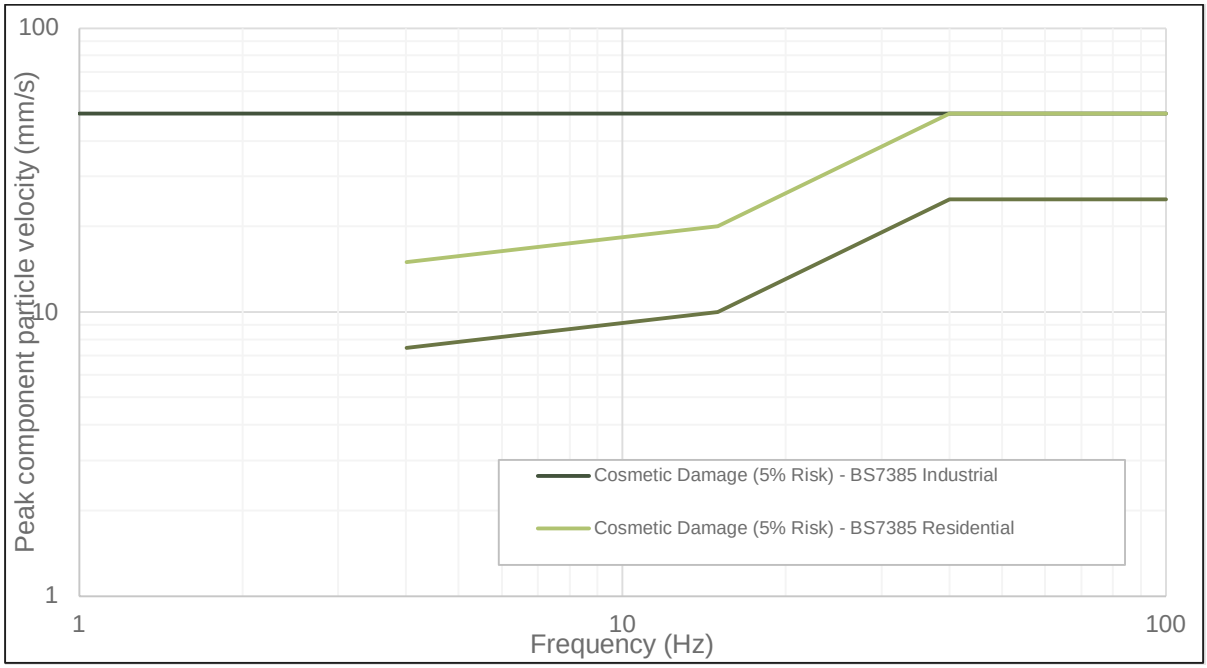
Table 3-8 Building damage – transient vibration criteria

Line	Type of building	Peak Component Particle Velocity in frequency range of predominant pulse	
		4 Hz to 15 Hz	15 Hz and above
1	Reinforced or framed structures Industrial and heavy commercial buildings	50 mm/s at 4 Hz and above	
2	Non-reinforced or light framed structures Residential or light commercial type buildings	15 mm/s at 4 Hz increasing to 20 mm/s at 15 Hz	20 mm/s at 15 Hz increasing to 50 mm/s at 40 Hz and above

Values referred to are at the base of the building.

In the lower frequency region where strains associated with a given vibration velocity magnitude are higher, the guide values for the building types corresponding to the guidelines of **Figure 3-1** are reduced. Below a frequency of 4 Hz where a high displacement is associated with the relatively low peak component particle velocity value, a maximum displacement of 0.6 mm (zero to peak) is recommended.

Figure 3-1 Graph of Transient Vibration Guide Values for Cosmetic Damage



Consideration for material fatigue is also addressed in BS 7385 whereby it is concluded that unless calculation indicates a significant (in respect of the fatigue life of building materials) magnitude and number of load reversals, the guide values in **Table 3-8** should not be reduced for fatigue considerations.

Nevertheless, BS 7385 states that the guide values in **Table 3-8** relate predominantly to transient vibration, which does not give rise to resonant responses in structures, and to low-rise buildings. Where the dynamic loading caused by continuous vibration is such to give rise to dynamic magnification due to resonance, especially at the lower frequencies where lower guide values apply, then the guide values in **Table 3-8** may need to be reduced by up to 50 per cent.

Accordingly, the BS 7385 guide values to be applied to the assessment of continuous construction vibration sources is summarised in **Table 3-9** and graphically in **Figure 3-1**.

Table 3-9 Building damage – continuous vibration criteria

Line	Work period	Peak Component Particle Velocity in frequency range of predominant pulse	
		4 Hz to 15 Hz	15 Hz and above
1	Reinforced or framed structures Industrial and heavy commercial buildings	25 mm/s at 4 Hz and above	
2	Non-reinforced or light framed structures Residential or light commercial type buildings	7.5 mm/s at 4 Hz increasing to 10 mm/s at 15 Hz	10 mm/s at 15 Hz increasing to 25 mm/s at 40 Hz and above

Vibration sensitive building contents

Over the frequency range typical of vibration in buildings from construction activities (approximately 8 Hz to possibly 100 Hz), the threshold for visible movement of susceptible building contents (i.e. plants, hanging pictures, blinds, etc) is approximately 0.5 mm/s and

audible rattling of loose objects (i.e. crockery) generally does not occur until levels of about 0.9 mm/s are reached. For delicately balanced objects, rattling may sometimes occur at lower vibration levels.

In any premises, day-to-day activities (e.g. footfalls, doors closing, etc) will cause levels of vibration in floors and walls that exceed 1 mm/s (sometimes by quite considerable margins), and therefore visible movement and rattling are often observed. In most instances however, such movement is considered normal, and vibration levels of even much greater magnitude do not result in damage to the objects or building contents.

Potentially vibration-susceptible building contents include sensitive instrumentation, computers and other electronic equipment, although such items are not usually kept in residences (apart from personal computers which are considerably more robust). Typical maximum floor vibration levels for satisfactory operation of such sensitive items are:

- 0.5 mm/s to 2 mm/s: Precision balances and some optical microscopes
- 1 mm/s to 5 mm/s: Large computer disk drives and sensitive electronic instrumentation

Very short duration vibration events, for example vibration from infrequent impulsive vibration, could be permitted to cause somewhat higher levels, depending on vibration frequency content and on the specific susceptibility of particular objects and their location.

The actual levels of vibration induced by a source outside a building are a function of the particular ground conditions, the foundation/footing interaction, location of the receiver within the building and the nature of the building and its floor.

Public utility plant

The assessment of potential vibration impacts to Public Utility Plant (PUP) would be completed during the detailed design stage of the Project in accordance with the utility providers codes of practice/permitting and any other requirements specified within the detailed design drawings, relevant specifications and contract documentation. The CoP Vol 2 provides the following guidance in relation to the assessment of impacts to PUP:

The designer is responsible for liaising with the relevant utility provider during the design phases in accordance with the department's functional specifications for PUP. The construction contractor is responsible for liaising with the relevant utility authority based on their work methods to seek approval during construction to manage potential impacts in accordance with MRTS170, MRTS171 and utility provider requirements.

3.3.2 Construction road traffic noise and vibration

Where the construction phase of the Project is adding heavy vehicles to the existing road network, it is appropriate to consider the potential for impacts such as the incremental change in noise levels due to that change in traffic volume. The CoP Vol 2 recommends that noise and vibration impacts and risk mitigation measures for supply chain haul routes shall be specified by the construction contractor within a Supply Chain Haul Route management strategy as per DTMR's MRTS02 *Provision for Traffic*.

To inform the requirement of the need for further construction road traffic noise assessment during the detailed design stage, this preliminary assessment has drawn on guidance from the CoP Vol 1, reproduced in **Table 3-10**. As noted in the CoP Vol 1, the information in **Table 3-10** is not precisely verifiable for road traffic noise, it is useful in understanding the significance of change in environmental noise exposure. As such, potential changes in road traffic noise levels because of the Project has been assessed in the context of **Table 3-10**.

Where practicable, the increase in road traffic noise levels as a result of the construction phase of the Project should aim to be 3 dBA or less (i.e. insignificant).

Table 3-10 Significance of environmental noise exposure changes

Increase over existing noise level (dBA)	Change in subjective loudness	Significance of change
<3	Nil	Insignificant
3-5	Noticeable	Marginal
10	About double	Significant
15 or more	At least triple	Very significant

3.3.3 Operational road traffic noise

Road traffic noise associated with the new or upgraded roads are assessed against the noise criteria outlined in the CoP Vol 1. The road works comprise:

- 31 new road segments, two of which are State-controlled roads (i.e. Cunningham Highway and Wondalli Street).
- 41 upgrades to existing roads, 12 of which are State-controlled roads. These generally include minor shoulder widening, approximately 150 m to 300 m either side of a rail-over-road crossing. There are some diversions of local roads to minimise rail crossings and to provide access to residential properties without the need to cross the railway.
- Three road-over-rail crossings at:
  - Linthorpe Road, Pittsworth
  - Intersection of Gore Highway and Saal Road, Brookstead
  - Part of the realignment of Cunningham Highway, Yelarbon

Road traffic noise criteria for the assessment of the above are reproduced in **Table 3-11**, where the external assessment location is as per the CoP Vol 1:

> *The noise measurement / calculation / prediction height shall be 1.5 m above Finished Floor Level (FFL) or mid window height, whichever is the higher, for each storey of the building (1.0 m in front of most exposed façade). Otherwise, the receptor heights shall be assumed at 1.8 m and 4.6 m above the building platform level for the ground and first floors respectively. A height of 0.5 m below the eave's height is also acceptable. For free fields, the noise measurement / calculation / prediction height shall be 1.5 m above the ground level.*

Table 3-11 Road traffic noise criteria

Description	Noise descriptor	Criteria
Existing Residences – Upgrading Existing Roads	$L_{A10(18hour)}$[1] – facade corrected	68 dBA
Existing Residences – New Road – Access Controlled		63 dBA if existing level >55 $L_{A10(18hour)}$ 60 dBA if existing level ≤55 $L_{A10(18hour)}$
Educational, Community and Health Buildings – Upgrading Existing Roads	Maximum $L_{A10(1hour)}$[2] – facade corrected	65 dBA
Educational, Community and Health Buildings – New Road – Access Controlled		58 dBA
Outdoor Recreational and Passive Recreational Areas (Parks)	$L_{A10(12hour)}$[3] – free field	63 dBA[4]

Note 1: Arithmetic average of the 18 hourly L_{A10} levels over the consecutive hours from 6:00 am to midnight.

Note 2: Maximum 1-hour L_{A10} level during normal operating hours of the facility.

Note 3: Arithmetic average of the 12 hourly L_{A10} levels over the consecutive hours from 6:00 am to 6:00 pm.

Note 4: Noise criterion shall be applied to a minimum of 2000 square metres of outdoor recreational space.

4.0 Methodology

4.1 Overview of approach

This report has been developed in accordance with the Codes detailed in **Section 3.3** and the following high-level methodology:

- identification of the noise and vibration study area ensuring the assessment footprint is large enough to demonstrate compliance to the most stringent noise and vibration criteria
- identification and classification of all potentially noise and vibration sensitive receptors within the study area
- monitoring of ambient noise and vibration levels at representative locations across the Project
- processing the monitored data in accordance with the Codes to determine the ambient environment and Project specific assessment criteria
- modelling the construction and operation of the Project infrastructure (i.e. roads only) to predict noise and vibration levels at the surrounding sensitive receptors
- comparison of the predicted levels to the project noise and vibration criteria to determine the likely level of impact
- identification of mitigation measures to minimise and manage any predicted noise and vibration impacts.

4.2 Noise and vibration monitoring approach

Baseline environmental noise and vibration surveys were undertaken in 2018, 2022 and 2023. The 2018 and 2022 surveys were conducted by the Future Freight Joint Venture

(FFJV) to inform preliminary assessment of noise and vibration from the Project (FFJV Report 2-0001-310-EAP-10-RP-0215). A summary of the surveys, conducted in accordance with the requirements of the CoP Vol 1 for existing road traffic noise and the CoP Vol 2 for baseline data, is provided in **Section 5.6**.

The baseline noise Survey undertaken in 2018 is still considered appropriate to support the assessment of construction noise from the Project for the following reasons:

- A desktop review of the baseline noise monitoring locations did not indicate the presence of recent development having potential to significantly increase background noise levels above those measured in 2018.
- The RBLs measured in 2018 were not greater than 50 dBA during the daytime period and 45 dBA during the night-time and therefore significantly low enough as to trigger the CoP Vol 2 default minimum lower limits, particularly during the most sensitive Non-Standard hours night-time period.

In consideration of the current reference design, additional baseline noise monitoring surveys were completed for the Project for the following:

- At the site of the proposed Heckendorf Road borrow pit site (i.e. Lot 111 on DY182, Millmerran-Inglewood Road, Clontarf). The noise monitoring was completed by ERM in January to February 2023.
- The closest sensitive receptor to the Whetstone MDC (i.e. 26076 Cunningham Highway, Whetstone). The noise monitoring was completed by SLR in September 2023.

4.3 Construction assessment approach

4.3.1 Construction noise modelling

Predicted noise levels from the Project construction works have been assessed by the following methodology:

- All sensitive receptors have been identified within the study area.
- Code of Practice construction noise criteria have been determined for all sensitive receptors.
- SoundPLAN version 8.2 computer noise modelling software has been used to predict $L_{Aeq,adj,15min}$ construction noise levels for the key construction stages. The prediction model considers the effect from ground topography, ground absorption, buildings and the location of the noise source and receptors within the study area. The model inputs and settings outlined in **Table 4-1** were used in the SoundPLAN noise model for the construction noise predictions.

Table 4-1 SoundPLAN noise modelling inputs

Modelling element	Source / detail
Ground elevation geometry	0.5 m resolution contours sourced the FFJV from Global Mapper (received on 4 November 2021)
Building data	The building data used in the construction noise model is consistent with the data used for the B2G Operational Rail Noise Assessment. All building locations, footprints, heights and zoning were sourced from the PSMA Australia Geoscape© product which provides building outlines from high

Modelling element	Source / detail
	resolution satellite imagery and heights from LiDAR with substantial quality assurance (QA) review completed by SLR. The buildings for the sensitive receptors and non-sensitive structures were set to the mean ground height. Building heights were determined from the referenced geospatial database, where the building height was not reported a 5 m building height was adopted as being representative of the single storey residences that are common in rural areas.
Receptor points	The facade noise map calculation feature was used in SoundPLAN for all sensitive receptors identified in **Appendix A**. Facade noise levels were calculated 1 m from the centre of each facade. Since the finished floor levels, building platform levels and floor levels are not available for all identified sensitive receptors, receptor heights have been predominantly determined based on eave heights where available. For eave heights less than 5.1 m, receiver height has been determined to be 0.5 m below eave height. For eave heights greater than 5.1 m, 2nd storey receiver height has been determined to be 0.5 m below eave height, and 1st storey receiver height has been determined to be 3.3 m below eave height. For sensitive receivers with no eave heights available, receiver heights have been determined to be 1.8 m above the terrain level for 1st storey, and 4.6 m above terrain level for 2nd storey (if applicable).
Project footprint/ alignment	Based on the revised reference design (2-0001-310-EAP-10-RP-0300_1.2 – Appendix B1 Design Drawings as provided by ARTC

- In consultation with ARTC, the acoustically significant construction activities/ stages of works have been broken into a series of construction scenarios each defined as a set of activities involving several scheduled equipment items, each operating within a specific area of authority, during specified times.
- The noise modelling does not take into account attenuation provided by trees and therefore the noise modelling in areas with significant intervening trees (i.e. between construction noise source and sensitive receptor) is considered to be conservative in this regard.
- In accordance with the CoP Vol 2, the ISO 9613 2:1996 *Acoustics–- Attenuation of sound during propagation outdoors – Part 2: General method of calculation* algorithm was used for the prediction of construction noise levels, and included a slight downwind setting which enhances propagation from the source to receptor. The selected meteorological parameters are listed in **Table 4-2**.

Table 4-2 Construction noise modelling meteorological parameters

Parameter	Standard hours assessment	Non-Standard hours assessment
Temperature, °C	20	15
Air pressure, mbar	1013.3	1013.3
Relative humidity, %	70	70

Regarding the modelled construction noise scenarios, the following conservative assumptions have been made:

- Modelled construction scenarios and associated equipment (as provided by ARTC), are detailed in **Table 4-3**, including area of usage and any applicable adjustments for tonal or impulsive noise characteristics in accordance with the adjustment factors in

the CoP Vol 2. It should be noted that the construction scenarios listed in **Table 4-3** do not cover all the stages/activities of construction of the project but rather includes stages of work considered to have the greatest potential to adversely impact sensitive receptors and inform the need for the reasonable and feasible mitigation measures.

- Minor construction activities such as minor services adjustments, which have not been included in this detailed assessment, generally involve a subset of the equipment detailed in **Table 4-3** and therefore are likely to result in lower noise emission levels than the scenarios included in this assessment.
- Modelled construction equipment noise spectra, sourced from Australian Standard: AS 2436-2010: *Guide to noise and vibration control on construction, demolition and maintenance sites* (AS 2436) and British Standard (BS) 5228-2:2009 *Code of practice for noise and vibration control on construction and open sites – Part 1: Noise* (BS 5228 Part 1), are listed in **Table 4-4** and include (where applicable) standard work practices/measures such as modern, serviced plant and equipment with engine covers, exhaust mufflers, etc.
- Noise source heights have been modelled to reflect the acoustic centre of each plant item, the majority of which range from 0.5 m to 3 m above local ground level.
- For scenarios 1 to 6 where the construction works are relatively localised, the plant and equipment listed in column 5 of **Table 4-4** have been modelled as individual point sources based for the quantities listed in column 7. For scenarios 7 to 18 where the construction works are required over significant areas including the entire alignment for some scenarios, the construction equipment have been modelled as a area sources that simulate all the equipment (listed in **Table 4-4**) operating simultaneously at the same location relative to any sensitive receptor.
- The modelling conservatively assumed that the construction works would be carried out with equipment (without additional mitigation) operating simultaneously for a period of 15 minutes or more to provide a worst-case noise prediction. It should be noted that it is unlikely that all construction equipment would operate constantly at full capacity simultaneously.

In considering the above, it is important to note that the construction scenarios are worst-case and based on typical plant and equipment used in railway construction. The construction methodology, duration of construction activities and scheduling of works will be subject to confirmation by the construction contractor once engaged.

Regarding cumulative Project construction noise and vibration impacts, these have not been modelled as part of this assessment. Cumulative noise and vibration impacts would continue to be considered as the Project progresses when detailed construction planning is developed. This would consider the potential impact from concurrent Project construction activities. Specific management and mitigation measures designed to address potential impacts would be developed and used to minimise the impacts as far as practicable, in consultation with the affected community, as outlined in **Section 7.0**.

Where concurrent construction work is being completed near to a particular area, the worst-case noise levels could theoretically increase by around 3 dB (i.e. a logarithmic adding of two sources of noise at the same level). The likelihood of worst-case noise levels being generated by two different work activities at the same time is, however, considered low and rather than increase construction noise levels, the impact of concurrent construction work would generally be limited to a potential increase in the duration, and annoyance, of noise impacts on the affected receptors.

Table 4-3 Modelled construction scenarios

Assessment scenario	Assessed work periods	Modelled work areas	Total Duration of work	Plant/equipment	SWL (dBA)	Quantity modelled (per work area)
1 – Establishment of laydown areas	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Designated laydown areas (refer to noise contour maps in **Appendix D**)	Up to 30 days	12G grader	110	2
				Dump truck (off road 25T)	115	4
				Excavator 40T	108	2
				Water carts 35 kL	106	2
2 – Establishment of accommodation camps	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Lot 30 on MH721 (Cunningham Highway, Yelarbon) Lot 5 on MH75 (Millmerran-Inglewood Road, Inglewood)	Up to 30 days	12G grader	110	2
				Dump truck (off road 25T)	115	4
				Excavator 40T	108	2
				Water carts 35 kL	106	2
3 – Operation of accommodation camps	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Lot 30 on MH721 (Cunningham Highway, Yelarbon) Lot 5 on MH75 (Millmerran-Inglewood Road, Inglewood)	Up to 48 months	Water treatment plant	104	1 per camp
				Sewage treatment plant	108	1 per camp
				Loading dock activities	106	1 per camp
				Rooftop mechanical plant	104	1 per camp (all sources combined)
				Generator	98	1 per camp
				Outdoor recreation	90	1 per camp
				Air-conditioners	65	272 per camp

Assessment scenario	Assessed work periods	Modelled work areas	Total Duration of work	Plant/equipment	SWL (dBA)	Quantity modelled (per work area)
4 – Operation of concrete batch plants	Standard hours and Non-Standard hours as per the guidance in Section 2.2	B2G-LDN138.5 B2G-LDN150.5	Up to 48 months	Concrete batch plant	115	1 per site
				Front end loader	108	1 per site
				Concrete truck	108	1 per site
5a – Whetstone MDC site establishment	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Whetstone MDC	6 to 12 months	Excavator, dozer, dump truck, chainsaw, water cart, grader, scraper, compactor, roller, moxi truck.	123 (total SWL)	1 of each
5b – Whetstone MDC rail stockpiling			Up to 48 months	Gantry crane winch, gantry crane bogie, gantry crane diesel generator, unloading rails to stockpile, hydraulic roller conveyor, electric motor conveyor drives, sandblasting prep, grinding prep, welding unit, generator for welder, grinders, electric motors powering grinders, stationary gantry cranes, loading rails for transport to site	125 with sandblasting (total SWL) 116 without sandblasting (total SWL)	Up to 6 items of each
5c – Whetstone MDC sleeper stockpiling				Gantry crane winch, Gantry crane bogie, gantry crane diesel generator, forklift, loading and unloading sleepers	108 (total SWL)	Up to 2 items of each
5d – Whetstone MDC ballast stockpiling				Discharge conveyor, loading conveyor, loader, ballast noise	118 (total SWL)	1 of each

Assessment scenario	Assessed work periods	Modelled work areas	Total Duration of work	Plant/equipment	SWL (dBA)	Quantity modelled (per work area)
5e – Whetstone MDC workshop activities				Idling locomotive, angle grinders, generator	106 (total SWL)	1 of each
5f – Whetstone MDC combined activity noise				As noted above	126 (total SWL)	As noted above
5g – Whetstone MDC combined activity noise with laydown area activities				As noted above with a franna crane and road truck operating in the laydown area	126 (total SWL)	1
6a – Borrow pit – site establishment	Standard hours as per the guidance in Section 2.2	All six borrow pit sites	1 month	Dozer D10	115	1
				Grader 16H	108	1
				Road truck	106	2
6b – Borrow pit – excavation	Standard hours and Non-Standard hours as per the guidance in Section 2.2	All six borrow pit sites	Up to 48 months	Excavator 40T	108	2
				Excavator with rock hammer	122	1
6c – Borrow pit – crushing and screening				Tracked semi-mobile crusher (90T)	118	1
6d – Borrow pit – loading				Road truck	106	2
				Front end loader	108	1
6e – Combined scenarios 6b to 6d				All sources associated with Scenarios 6b to 6d operating concurrently.	125(total SWL)	As noted above
		Across the Project	86 weeks	Dozer D7R	108	20

Assessment scenario	Assessed work periods	Modelled work areas	Total Duration of work	Plant/equipment	SWL (dBA)	Quantity modelled (per work area)
7a – Earthworks (clearing and grubbing with dozers and mulchers)	Standard hours and Non-Standard hours as per the guidance in Section 2.2			Excavator 40T	108	10
				Trucks (25T)	106	10
				637 Scraper	112	5
				Water cart 35 kL	106	5
				Mulcher	116	4
7b – Earthworks (clearing and grubbing without dozers and mulchers)		Across the Project	86 weeks	Excavator 40T	108	10
				Trucks (25T)	106	10
				637 Scraper	112	5
				Water cart 35 kL	106	5
8 – Earthworks (cut and fill)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project	Up to 121 weeks	Dozer D10	116	2
				Dozer D11	119	5
				637 Scraper	112	10
				Water cart 35kL	106	18
				Grader 14G	110	6
				Compactor	108	6
				20T Pad foot roller	109	3
				Trucks 50T	112	80+
9 – Earthworks (blasting prep)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Within designated areas of the Project potentially requiring drill and blasting	rarely	Drill rig	118	1
				Excavator 40T	108	1
				Trucks	106	2
10–- Drainage			111 weeks	Backhoe	96	17

Assessment scenario	Assessed work periods	Modelled work areas	Total Duration of work	Plant/equipment	SWL (dBA)	Quantity modelled (per work area)
	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project (17 crews)		Excavator 30T	107	17
				Hiab	107	17
				Small compactor	107	17
				Concrete truck	108	17
				Concrete pump	110	8
				Franna crane	98	17
11a – Structures (substructure, bored piling)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project (7 crews)	102 weeks	Excavators 40T	108	7
				Piling rig (bored)	117	7
				Concrete truck	108	7
				Concrete pump	110	7
11b – Structures (substructure, impact piling)		Across the Project (7 crews)	102 weeks	Excavators 40T	108	7
				Piling rig (impact)	120	7
				Concrete truck	108	7
				Concrete pump	110	7
12 – Structures (pier construction)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project (7 crews)	104 weeks	Excavator 40T	107	7
				Crane	99	7
				Concrete trucks	108	7
				Concrete pumps	110	7
				Concrete saw	117	7
	Standard hours and Non-Standard hours	Across the Project (7 crews)	96 weeks	Crane (crawler)	105	7
				Crane	99	7

Assessment scenario	Assessed work periods	Modelled work areas	Total Duration of work	Plant/equipment	SWL (dBA)	Quantity modelled (per work area)
13 – Structures (superstructure construction)	as per the guidance in Section 2.2			Flatbed trucks	105	7
14 – Rail civil (bottom ballast)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project	72 weeks	Trucks (On road tandem)	106	10
				Dozer D7R	108	1
				Excavator 40T	108	1
				Water cart 35kL	106	2
				Grader 14G	110	2
				14T smooth drum roller	107	1
15 – Rail civil (sleeper and rail installation)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project	38 weeks	Flatbed trucks	105	2
				Front end loader	108	3
				Excavator 20T	103	3
16 –- Rail civil (tamping and regulating)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project	24 weeks	Tamper 4s	115	1
				Tamper 08-16 of 3x	115	1
				Regulator	116	1
				Excavator 20T	103	1
				Water cart	106	1
17 – Road civil works (road base)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project	150 weeks	12G grader	110	1
				Excavator 30T	107	1
				Compactor	108	2
				Water cart 15 kL	106	2

Assessment scenario	Assessed work periods	Modelled work areas	Total Duration of work	Plant/equipment	SWL (dBA)	Quantity modelled (per work area)
				Trucks (on road tandem)	106	5
18 – Road civil works (asphalting)	Standard hours and Non-Standard hours as per the guidance in Section 2.2	Across the Project	150 weeks	Bitumen seal sprayer	112	1
				14T Smooth drum roller	107	2

Table 4-4 Modelled construction equipment sound spectra

Equipment	SWL $L_{Aeq,adj}$ (dBA)	A-weighted Full Octave Band Centre Frequency (dBA)							
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
637 scraper	112	94	93	98	107	107	103	103	95
Air-conditioner	65	43	53	58	60	59	57	54	44
Backhoe	96	76	78	83	89	91	89	88	77
Ballast regulator	116	88	92	97	102	109	112	111	99
Ballast tamper	115	90	99	102	104	112	107	103	91
Ballast train	111	80	89	96	105	107	105	102	90
Bitumen seal sprayer	112	89	96	100	105	107	105	103	92
Compactor	108	87	95	95	100	103	101	101	88
Concrete batch plant	115	101	105	105	109	108	107	106	95
Concrete pump	110	85	93	97	104	105	103	100	88
Concrete saw	117	88	100	99	105	107	109	113	109
Concrete truck	108	85	86	85	94	98	107	89	77
Conveyor discharge	81	60	64	71	68	71	71	76	74
Conveyor drives	101	67	79	86	92	95	96	93	84
Crane	99	70	83	87	87	94	95	84	72
Crane (crawler)	105	93	99	95	97	97	96	90	83
Dozer D10	116	89	104	106	110	113	107	101	97
Dozer D11	119	98	99	109	114	112	111	109	103
Dozer D7R	108	91	102	100	98	102	99	97	85
Drill rig	118	97	102	110	113	113	110	105	94
Dump truck	115	88	91	98	104	107	113	98	86
Excavator 20T	103	74	83	93	98	97	95	92	80
Excavator 30T	107	87	90	96	102	101	100	97	90
Excavator 40T	108	88	91	97	103	102	101	98	91
Forklift	90	64	70	76	81	85	85	81	68
Flatbed trucks	105	93	91	96	99	99	98	93	88
Franna crane	98	82	88	90	88	92	92	85	77
Front end loader	108	87	95	95	100	103	101	101	88
Gantry crane (stationary)	96	62	71	75	90	92	90	84	79
Gantry crane bogie	82	63	67	69	73	76	77	74	69
Gantry crane diesel genset	92	65	76	78	85	88	87	80	71
Gantry crane winch	96	62	71	75	90	92	90	84	79
Generator	85	77	79	78	77	76	73	70	60
Generator (camp)	98	84	91	91	89	91	91	85	71
Generator (diesel 550kVA)	90	76	73	75	84	86	84	78	73
Grader 12G	110	91	97	103	100	106	103	99	87

Equipment	SWL $L_{Aeq,adj}$ (dBA)	A-weighted Full Octave Band Centre Frequency (dBA)							
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Grader 14G	110	91	97	103	100	106	103	99	87
Grinder	102	65	88	89	93	96	97	93	84
Hiab	107	83	94	86	97	99	103	102	90
HVAC (rooftop)	104	75	86	94	98	99	96	92	84
Impact piling rig	120	87	104	112	114	116	112	108	97
Mulcher	116	88	100	105	112	111	108	102	96
Piling rig (bored)	117	84	94	101	114	111	107	104	92
Rail grinder	116	67	71	79	93	106	114	110	98
Recreation noise	90	76	73	75	84	86	84	78	73
Regulator	116	88	92	97	102	109	112	111	99
Small compactor	107	72	90	98	97	105	97	95	83
Sandblasting	125	81	87	96	105	114	119	122	116
Sewage treatment plant	108	74	86	94	99	103	104	101	92
Tamper 08-16 of 3x	115	90	99	102	104	112	107	103	91
Tamper 4s	115	90	99	102	104	112	107	103	91
Train idling loco	104	87	82	81	92	93	103	81	74
Train slow moving	110	93	88	87	98	99	109	87	80
Trucks	106	82	93	95	100	101	99	96	91
Trucks (25T)	106	82	93	95	100	101	99	96	91
Trucks (on road tandem)	106	82	93	95	100	101	99	96	91
Trucks 50T	112	80	96	104	105	106	105	103	98
Vibratory roller 14t smooth	107	75	90	100	101	102	100	94	86
Vibratory roller 20t pad foot	109	85	89	96	101	104	104	97	85
Water cart	106	84	90	95	100	100	99	95	85
Water cart 15kL	106	84	90	95	100	100	99	95	85
Water cart 35kL	106	84	90	95	100	100	99	95	85
Water treatment plant	104	70	82	90	95	99	100	97	88
Welding unit	101	69	80	88	93	97	95	90	83

The typical uncertainty of prediction in L_{Aeq} for the scenarios described below is estimated as being U_{95} 4 dBA according to the methods listed within the ISO *Guide to Uncertainty of Measurement* with empirical data obtained from published sources. This implies that the true value for such a scenario is expected to lie within a +/- 4 dBA range for 95 out of 100 observations. Given the noise modelling is based on a worst-case scenario of all proposed equipment operating simultaneously, adjustment to the predicted construction noise levels to account for the prediction uncertainty is not considered warranted.

4.3.2 Ground vibration modelling

Prediction of ground vibration levels from the proposed Project construction sources has been conservatively based on the methodology contained within the following two documents, both of which are recommended by the CoP Vol 2:

- Hydraulic breakers, jackhammers and plate compactors – California Department of Transportation's, Transportation and Construction Vibration Guidance Manual, specifically Section 7.1.3 '*Vibration Amplitudes Produced by Hydraulic Breakers*' and Section 7.2 '*Vibration Produced by Other Construction Equipment*', and
- Vibratory rollers, vibratory piling (sheet piling), percussive piling (impact piling) – BS 5228 Part 2, specifically Table E.1 '*Empirical predictors for groundborne vibration arising from mechanized construction works*'. The applicable equations in BS 5228 Part 2 Table E.1 utilised in this study are consistent with those presented in the Hiller and Crabb (2000) '*Groundborne vibration caused by mechanised construction works*' report (Transport Research Laboratory report 429).

Ground vibration prediction equations (from the above sources) for the individual equipment/activities are summarised in **Table 4-5**.

Table 4-5 Ground vibration prediction equations

Equipment/activity	Vibration prediction equation
Vibratory piling	$$V_{res} = \frac{k_v}{x^{\delta}}$$ Where: V_{res}, predicted vibration level k_v, scaling factor x, distance measured along ground surface δ, 1.3 (all operations), 1.2 (Start up and run down), 1.4 (steady state operation)
Percussive (impact) piling	$$V_{res} = k_p \left[\frac{\sqrt{W}}{r^{1.3}}\right]$$ Where: V_{res}, predicted vibration level k_p, impact factor L, pile toe depth $r = \sqrt{L^2 + x^2}$ W, nominal hammer energy x, distance measured along ground surface

Equipment/activity	Vibration prediction equation
Vibratory compaction (start up and run down)	$$V_{res} = k_t\sqrt{n_d}\left[\frac{A^{1.5}}{(x + L_d)^{1.3}}\right]$$ Where: V_{res}, predicted vibration level k_t, scaling factor n_d, number of drums A, maximum amplitude of drum vibration x, distance measured along ground surface L_d, vibrating drum width
Vibratory compaction (steady-state)	$$V_{res} = k_s\sqrt{n_d}\left[\frac{A}{x + L_d}\right]^{1.5}$$ Where: V_{res}, predicted vibration level k_s, scaling factor n_d, number of drums A, maximum amplitude of drum vibration x, distance measured along ground surface L_d, vibrating drum width
Hydraulic hammer	$$V_{res} = V_{ref}\left[\frac{7.62}{D}\right]^{n}\left[\frac{E_{equip}}{E_{ref}}\right]^{0.5}$$ Where: V_{res}, predicted vibration level V_{ref}, reference vibration level D, distance from hydraulic hammer to the receiver in m n, value related to the attenuation rate through the ground E_{equip}, rated energy of hydraulic breaker in J E_{ref}, 6,779 J (rated energy of reference hydraulic breaker)

Exact specifications for all vibration intensive equipment to be operated on the Project have not yet been confirmed, however experience from similar construction projects has guided the modelling inputs as follows:

- 20t single drum vibratory rollers with a drum width of up to 2.10 m and maximum amplitude of up to 2.0 mm (high vibration setting). Amplitude for low vibration setting assumed at 0.7 mm.
- 12t single drum vibratory rollers with a drum width of up to 2.13 m and maximum amplitude of up to 1.8 mm (high vibration setting). Amplitude for low vibration setting assumed at 1.0 mm.

- Rocker breakers based on a hammer with 16 kJ impact energy rating on a 42 to 76t excavator.
- Driven (percussive) piling hammers set at max drop/output of 90kJ. After efficiency factors the output is expected to achieve a maximum 85% efficiency (i.e. 77kJ). The calculated safe working distances assume a pile toe depth of 15 m and the following Kp values:
  - K_p = 1.5 for unobstructed driving through stiff cohesive soils
  - K_p = 3 for driving through very stiff cohesive soils containing obstructions which are large relative to the pile cross-section

  The application of safe working distances for K_p values of either 1.5 or 3 should be guided by the geotechnical reports for each pile (i.e. to confirm the potential for large obstructions to be present at each pile location). Safe working distances have been provided for both K_p values.
- Sheet piling rig: K_V = 266, δ = 1.2 for start up and run down, δ = 1.4 for steady state operation calculations.

Vibration predictions for the above equipment have conservatively applied the 5% probability of exceedance scaling factors.

4.3.3 Blasting overpressure and ground vibration modelling

The assessment of potential for airblast overpressure and/or ground vibration impacts associated with blasting for the Project has been conservatively based on:

- The attenuation formula in Australian Standard AS 2187.2 – 2006 *Explosives-Storage, Transport and Use – Part 2 Use of Explosives* (AS 2187) and ICI Explosives (now Orica) Blasting Guide 1995.
- Calculation of Maximum Instantaneous Charges (MIC) masses (per delay) in kilograms (kg) to comply with the blasting criteria detailed in **Section 3.3.1.4**.

4.3.3.1 Airblast overpressure

As noted in **Section 3.3.1.4**, the airblast overpressure limits applied to the assessment cater for the inherent variation in emission levels from a given blast design by allowing a 10% (i.e. nine (9) out of ten (10) blasts) exceedance of the 115 dBL criterion up to a 120 dBL maximum (assumed at 1% exceedance to facilitate predictions through the below formula). Correspondingly, '1% exceedance' and '10% exceedance' airblast overpressure prediction formula utilised for this assessment is as follows:

$$\mathbf{SPL = Ka - 24(\log10\ R - 0.33\ \log10\ Q)}$$

Where,

SPL = Peak airblast level (dBLinear)

Ka = Site constant (discussed below)

R = Distance between charge and receiver (m)

Q = Charge mass per delay (kg)

The site constant (K_a) in the above equation is an assumed constant, with the following constants derived from the percentage of exceedance and blast parameters applicable to free-face blasting in rock conditions typical of the Project areas potentially requiring blasting:

- 171.3 – for assessment against the 115 dBL criterion for nine (9) out of ten (10) consecutive blasts 10% exceedance, and
- 177.2 – for assessment against the maximum limits of 120 dBL, 125 dBL and 133 dBL at any time.

4.3.3.2 Ground vibration

Like airblast overpressure, AS 2187 provides the following formula to conservatively estimate ground vibration:

$$V = K_g \left(\frac{R}{Q^{1/2}}\right)^{-B}$$

where

V = ground vibration vector peak particle velocity (mm/s)

R = distance from charge (m)

Q = MIC per delay (Kg)

Kg , B = Constants related to site and rock properties for estimation purposes

According to AS 2187, when blasting is to be carried out to a free face in hard rock conditions, the following equation may be used to estimate the mean (50% probability of exceedance) vector Peak Particle Velocity (PPV):

$$V = 1140 \left(\frac{R}{Q^{1/2}}\right)^{-1.6}$$

The '1,140' ground response factor has been adjusted to the following constants:

- 1,136 for assessment against the 5 mm/s PPV for nine (9) out of ten (10) consecutive blasts, and
- 2,227 for assessment against the maximum PPV limits of:
  - 2.5 mm/s for heritage structures
  - 10 mm/s human comfort
  - 15 mm/s sensitive structures
  - 25 mm/s occupied non-sensitive sites
  - 50 mm/s occupied non-sensitive structures
  - 100 mm/s unoccupied non-sensitive structures

4.3.4 Construction road traffic noise modelling

As noted in **Section 4.3.1**, on-site construction traffic has been included in the modelled scenarios and assessed accordingly. For off-site construction vehicle movements

associated with the Project, haulage of material to/from the site as well as construction light vehicles would add to the traffic on the existing road network.

The effect of construction related vehicle traffic on the noise emission from roadways may be assessed by calculating how the additional traffic would alter the level of facade corrected noise emission from roadways using the Calculation of Road Traffic Noise (CoRTN) prediction algorithms. On a given roadway, the essential modelling inputs that the additional construction traffic will alter are the percentage of heavy vehicles and total vehicle numbers utilising that roadway. It is assumed all other parameters required for CoRTN predictions would remain the same (i.e. vehicle speed, pavement surface type, road gradients etc).

Construction vehicle movements and existing traffic flows have been based on information derived from EIS Appendix AA: Traffic Impact Assessment. The traffic volumes used for the basis of this assessment are the median minimum hourly existing traffic and the corresponding peak hour construction traffic flows from the Project.

4.4 Operational road traffic noise assessment approach

It is important to note that the assessment of operational road traffic noise levels applies only to the sections of road modified or added by the Project and does not consider the predicted cumulative road traffic noise level (i.e. of all surrounding roads) where the surrounding roads do not contribute to the total noise level exposure at individual receptors.

As noted in **Table 2-1**, the Project comprises the construction of 31 new road segments and modification works to 41 existing road segments. On further review of these road segments, several have low existing traffic volumes and are located further than 300 m from the nearest sensitive receptor. For this reason, the assessment of operational road traffic noise has been completed using the following methodology:

- Screening assessment: an initial screening assessment was carried out for all 72 road segments to identify where the CoP Vol 1 road traffic noise criteria may potentially be exceeded. Where compliance with the applicable noise criterion is comfortably predicted (i.e. at least 3 dBA below the criterion), no further assessment of road traffic noise was considered to be required. Where the predicted future road traffic noise level exceeded or was within 2 dBA of the applicable criterion, a detailed assessment was undertaken.
- Detailed assessment: involved completing a detailed assessment of operational road traffic noise, considering:
  - the pre-construction road traffic noise measurement results
  - verification of a 3-D noise model against the measurement results, and
  - 3-D model predictions of future road traffic noise levels.

5.0 Existing environment

5.1 Sensitive receptors

The CoP Vol 1 and CoP Vol 2 identifies the receptors that can be potentially sensitive to construction and operational noise and vibration. The description of the various sensitive receptors referenced from the CoP Vol 1 and CoP Vol 2 is detailed in **Table 5-1**.

Table 5-1 Sensitive Receptor types

Sensitive receptor type	Inclusion in the assessment
Accommodation activities	Caretaker's accommodation, community residence, dual occupancy, dwelling house, dwelling unit, home-based business, multiple dwelling, nature-based tourism, non-resident workforce accommodation, relocatable home park, residential care facility, resort complex, retirement facility, rooming accommodation, rural workers' accommodation, short term accommodation and tourist park.
Education establishments	Primary and secondary schools, colleges, technical institutes, universities or other educational institutions.
Childcare centres	Creches, early childhood centres, kindergartens and preschools.
Health care services	Medical centres, health clinics, surgeries and other medical institutions.
Hospitals	Hospitals
Community uses	Courts of law, art galleries, community halls, libraries and museums.
Places of worship	Churches, mosques, temples, synagogues, etc.
Offices	Offices
Mixed use	A mix of the uses listed above.
Protected area	An area identified under a conservation plan as a critical habitat or an area of major interest under the *Nature Conservation Act 1992*.
Public open spaces	A public park or gardens that is open to the public (whether or not on payment of a fee) for use other than for sport or organised entertainment (passive recreation only).
Buildings and structures	Where susceptible to damage/disruption from construction vibration including heritage sites.

As all of these receptors are represented by buildings, to determine the sensitive receptors included in the assessment, all buildings over 9 m^2 within the 2 km radius of the Project alignment were identified from a national geospatial dataset of buildings. Receptors located further than 2 km from the Project alignment, including the rail alignment, laydown areas, road upgrades, accommodation camps, MDC and borrow pits, would not be expected to be impacted by noise and vibration from the Project.

Over 8,000 buildings were identified within the 2 km study area radius (i.e. including the Project rail alignment, borrow pit sites and Turallin facility), and each building was assigned a unique identification number for the purpose of the assessment. The buildings that were clearly identified from aerial imagery as non-sensitive, such as silos, sheds and warehouses were not assessed as sensitive receptors but were retained in the assessment as they could provide screening of nearby sensitive receptors.

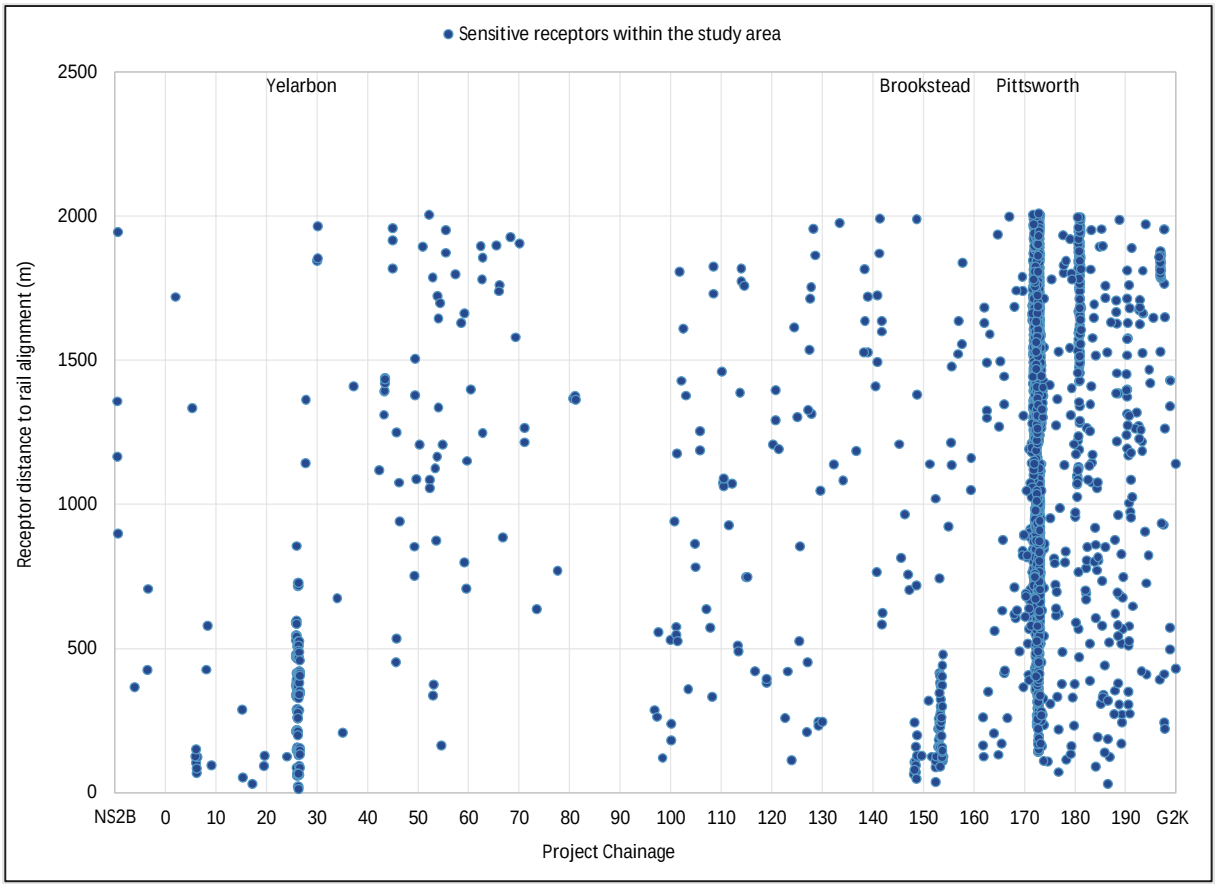
Of the buildings identified, 2,457 receptors were identified as being potential sensitive receptors. The distribution of these sensitive receptors is presented in **Figure 5-1**. Most of the sensitive receptors are within 50 m to 1,500 m of the alignment and are concentrated around townships.

The individual sensitive receptors are detailed in the route maps provided in **Appendix A**.

Available Development Applications from the past six years were reviewed to identify any approved unbuilt sensitive receptor developments within the study area. The review included

the Goondiwindi Regional Council and Toowoomba Regional Council areas along with the Queensland Coordinator-General Coordinated Projects and Economic Development Queensland development projects. These locations are also shown in the route maps provided in **Appendix A** as well as tabulated at the end of **Appendix A**.

Figure 5-1 Distribution of sensitive receptors along the Project alignment



Note: Some receptors are in the same location and the markers in the above figure may represent more than one receptor.

5.2 Sensitive receptors other than residences

Land use information from the EIS and the geospatial surveys was referenced to identify buildings and land uses that could be sensitive receptors other than individual residential properties. The number of buildings and open areas (i.e. parklands and sporting facilities) for each type of receptor is provided in **Table 5-2**. These types of receptors were identified in accordance with the requirements of the CoP Vol 1 and Vol 2, and are also shown in **Appendix A**.

Table 5-2 Non-residential sensitive receptor types

Sensitive receptor type	Inclusion in the assessment
Community buildings	23
Educational buildings	37
Emergency services	11
Offices	41

Sensitive receptor type	Inclusion in the assessment
Outdoor recreation areas	17
Sporting facilities	6
TOTAL	135

5.3 Heritage sites

Referencing the cultural heritage assessment for the Project, the non-indigenous sites in **Table 5-3** were identified as sites of potential heritage significance. Further details of each site are provided in *Chapter 19, Cultural Heritage*[1] prepared for the EIS.

A total of seven sites (not included in **Table 5-3**) were identified as being within the disturbance footprint of the Project and expected to be removed or mitigated as part of the Project.

Table 5-3 Non-Indigenous heritage sites

Site ID	Site name	Site description
B2G-19-H01	Kurumbul Station	Timber stump remains of previous buildings
B2G-19-H02	Gibinbell Shearing Complex	Iron clad sheds, potentially constructed from repurposed material
B2G-19-H03	Gibinbell Siding	Only an earth bank remains of the station
B2G-19-H04	Yelarbon & District Soldiers Memorial Hall	Chamferboard clad building with corrugated iron roof
B2G-19-H05	Anzac Memorial Garden	Small Park with two stone/ granite block statues
B2G-19-H06	Cancer Charity Tree	Commemorative tree on sandstone block
B2G-19-H07	Church (former)	Chamferboard clad building with corrugated iron roof
B2G-19-H08	Yelarbon Mill 1	Timber framed buildings in disrepair
B2G-19-H09	Yelarbon Mill 2	Open sided iron roofed shed structure
B2G-19-H10	Petrol Station	Disused chamferboard clad building
B2G-19-H11	Yelarbon Railway Complex	No original station buildings remain, large corrugated iron shed and series of grain silos
B2G-19-H12	Tree Trunk	Large felled tree, possibly used as a sign
B2G-19-H13	Whetstone Siding	All station buildings removed, and earthen loading bank remains
B2G-19-H14	Homestead Complex	Weatherboard clad residence
B2G-19-H15	Homestead Complex	Weatherboard clad property from the later colonial period, not obviously occupied
B2G-19-H16	Structure	Small weatherboard building, not occupied
B2G-19-H17	Sheds	Two weatherboard & corrugated iron sheds

[1] Inland Rail – Border to Gowrie project, Chapter 19, Cultural Heritage.

Site ID	Site name	Site description
B2G-19-H18	Lookout	Lookout and rest area
B2G-19-H19	Outbuildings	Weatherboard clad outbuildings, associated homestead was removed
B2G-19-H20	Grass Tree Creek Bridge	Low timber girder rail bridge
B2G-19-H21	Yandilla Station	Large corrugated iron shed and series of grain silos with a weighbridge
B2G-19-H22	Protest Public Art	Shipping container with public art
B2G-19-H23	Condamine River Bridge	Timber girder rail bridge with precast concrete abutments
B2G-19-H24	Pampas Station	Large metal grain handling shed with weighbridge
B2G-19-H25	Pampas Memorial Hall	Chamferboard clad hall on low timber stumps, still in use
B2G-19-H26	Sheds adjacent to Millmerran Branch Line	Dilapidated timber frame sheds
B2G-19-H27	Condamine River Bridge 2	Timber girder rail bridge with precast concrete abutments
B2G-19-H28	Brookstead Station	Complex of grain silos
B2G-19-H29	Brookstead Station Building (relocated)	Small weatherboard clad timber building on low stumps.
B2G-19-H31	Yarranlea Station	Existing grain silos and shed
B2G-19-H33	Homestead Complex	Occupied weatherboard colonial dwelling & ruins of timber structures
B2G-19-H34	Archaeological Site	Site of former buildings, assumed outbuildings, site is extensively ploughed
B2G-21-H2	Yelarbon Cemetery	Public cemetery administered by Goondiwindi Regional Council adjacent to the Cunningham Highway
B2G-21-H3	Avonlea homestead complex	Homestead complex including a house and at least two outbuildings (likely sheds)
B2G-21-H4	Multiple structures	Multiple structures including a house, garden and at least four other structures (likely sheds and other farm infrastructure)
B2G-21-H9	Brookstead Hotel	Brookstead Hotel including reception, bar and accommodation dating to the early 20th century
B2G-21-H10	House and windmill complex	House and windmill complex including a house and at least two other structures (likely sheds)
B2G-21-H12	Shed	Shed
B2G-21-H13	Green Hills Hotel Complex	Green Hills Hotel complex including the grave of Maria Tibbs, artefact scatter, cottage, house and timber posts
B2G-21-H14	Fairvale homestead complex	Fairvale homestead complex including a house and at least four sheds. The house likely dates to the late colonial period

5.4 Baseline noise

Baseline noise levels were monitored at 29 locations selected to be representative of the nearest communities to the Project. The locality of the monitoring sites is shown in **Figure 5-2** and detailed in **Table 5-4**.

The noise monitoring methodology, instrumentation details and calibration certificates are provided in **Appendix B**.

1 km

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:148,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Noise Monitoring Location
- Vibration Monitoring Location
- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail
- Bridges and Viaducts
- State Boundaries
- Accommodation Camps
- Borrow Pits
- Turallin Miscellaneous Facility
- Whetstone MDC

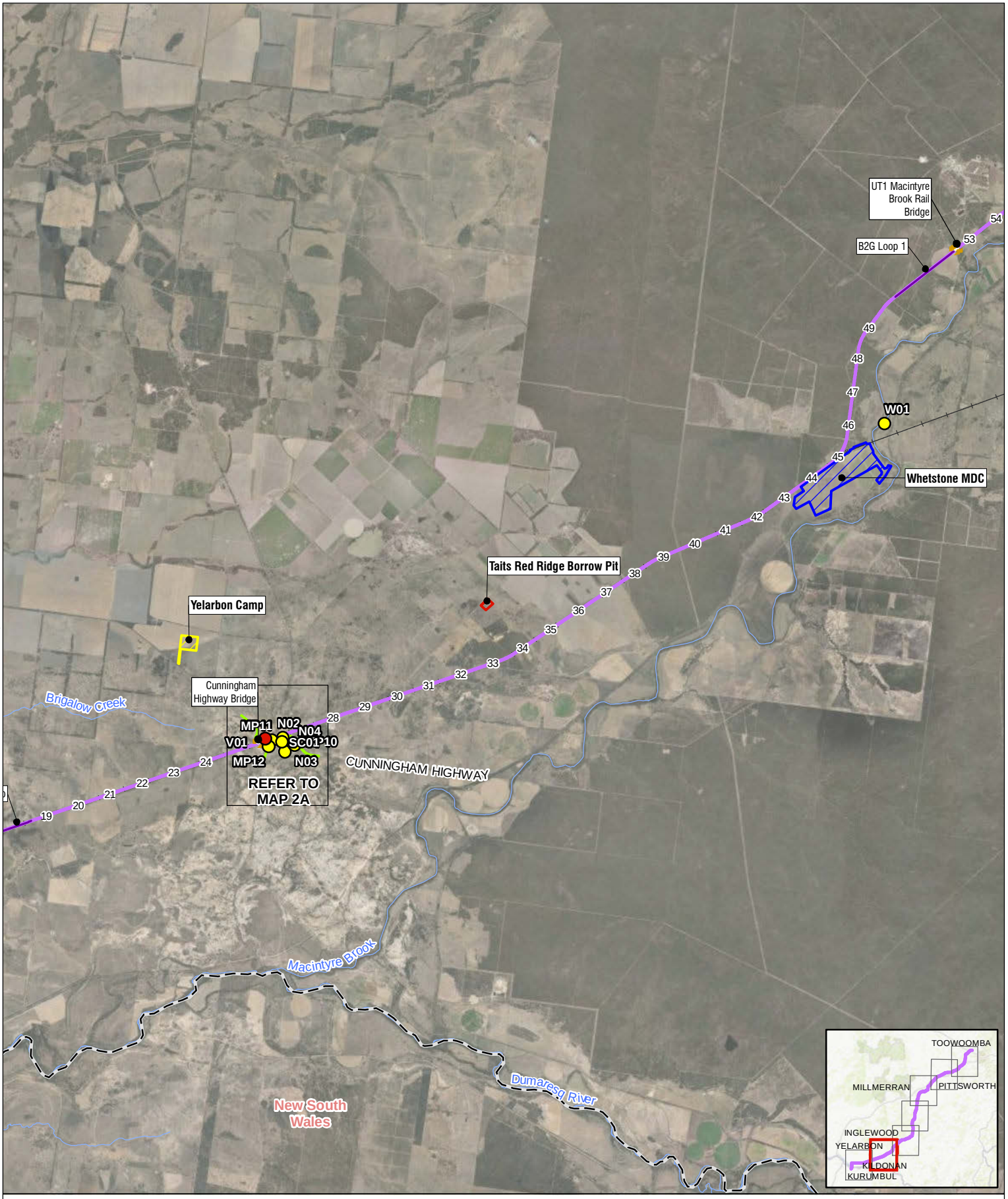
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Dec 2023)

INLAND RAIL B2G
CONSTRUCTION NOISE CONTOUR ASSESSMENT

Baseline and Road Traffic Noise & Vibration Measurement Locations

FIGURE 5-2 MAP 1 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Noise and vibration monitoring locations.mxd



1 km

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:148,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Noise Monitoring Location
- Vibration Monitoring Location
- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail
- Bridges and Viaducts
- State Boundaries
- Accommodation Camps
- Borrow Pits
- Turallin Miscellaneous Facility
- Whetstone MDC

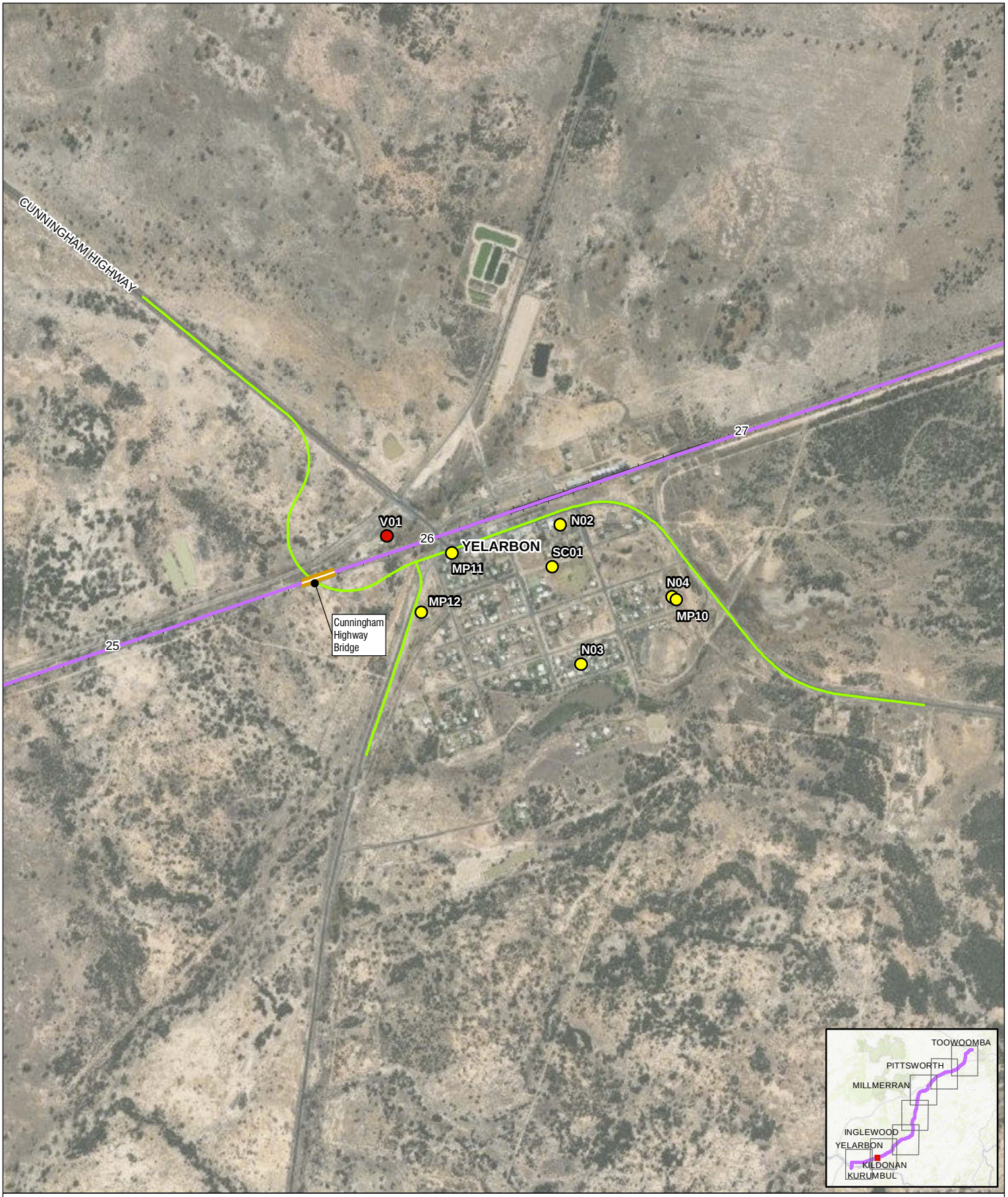
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Dec 2023)

INLAND RAIL B2G
CONSTRUCTION NOISE CONTOUR ASSESSMENT

Baseline and Road Traffic Noise & Vibration Measurement Locations

FIGURE 5-2 MAP 2 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Noise and vibration monitoring locations.mxd



100 m

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:15,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Noise Monitoring Location
- Vibration Monitoring Location
- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail Alignment/Centreline
- Bridges and Viaducts
- State Boundaries

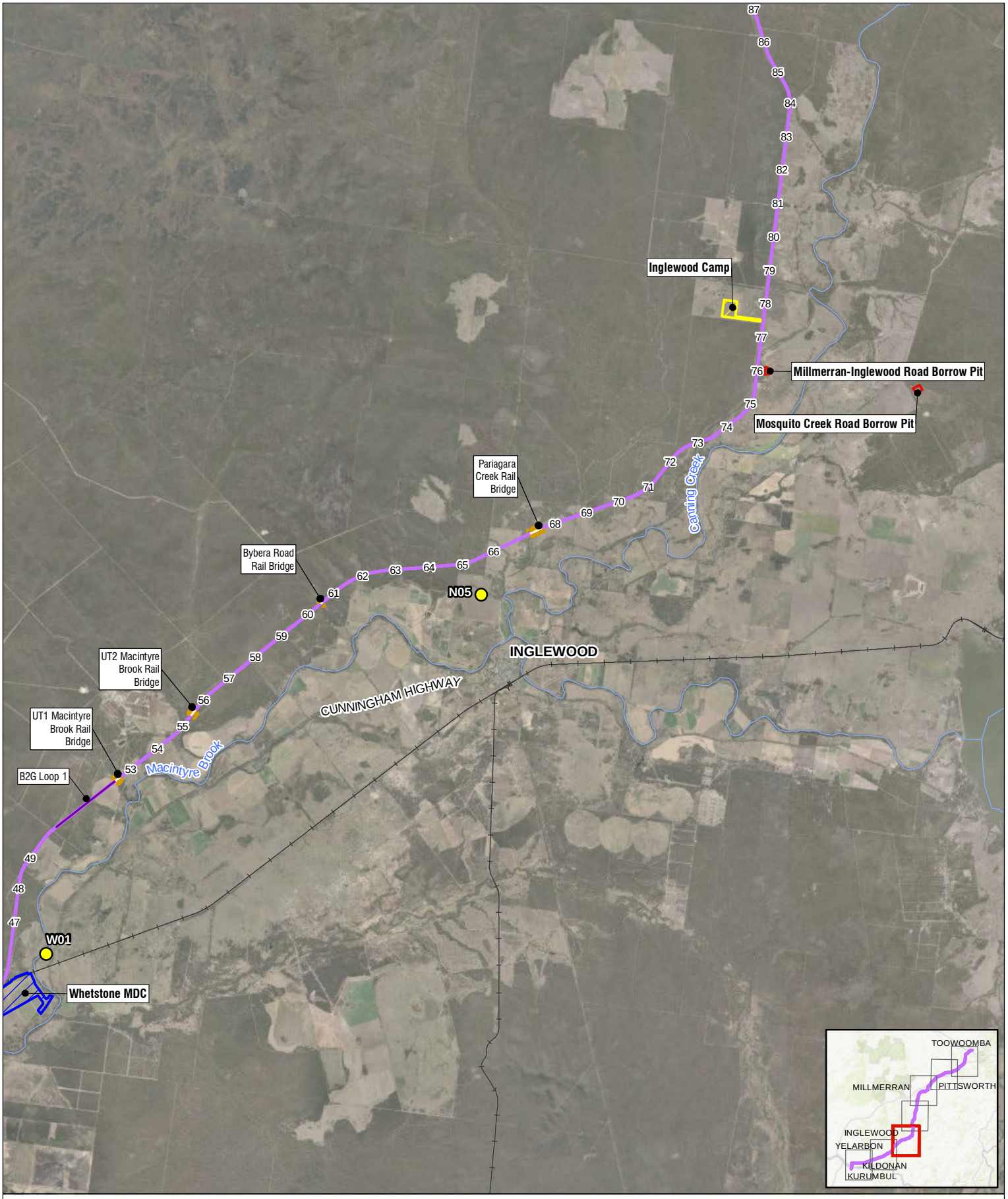
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Dec 2023)

INLAND RAIL B2G
CONSTRUCTION NOISE CONTOUR ASSESSMENT

Baseline and Road Traffic Noise & Vibration Measurement Locations

FIGURE 5-2 MAP 2A

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Noise and vibration monitoring locations_Map2A.mxd



1 km

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:148,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Noise Monitoring Location
- Vibration Monitoring Location
- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail
- Bridges and Viaducts
- State Boundaries
- Accommodation Camps
- Borrow Pits
- Turallin Miscellaneous Facility
- Whetstone MDC

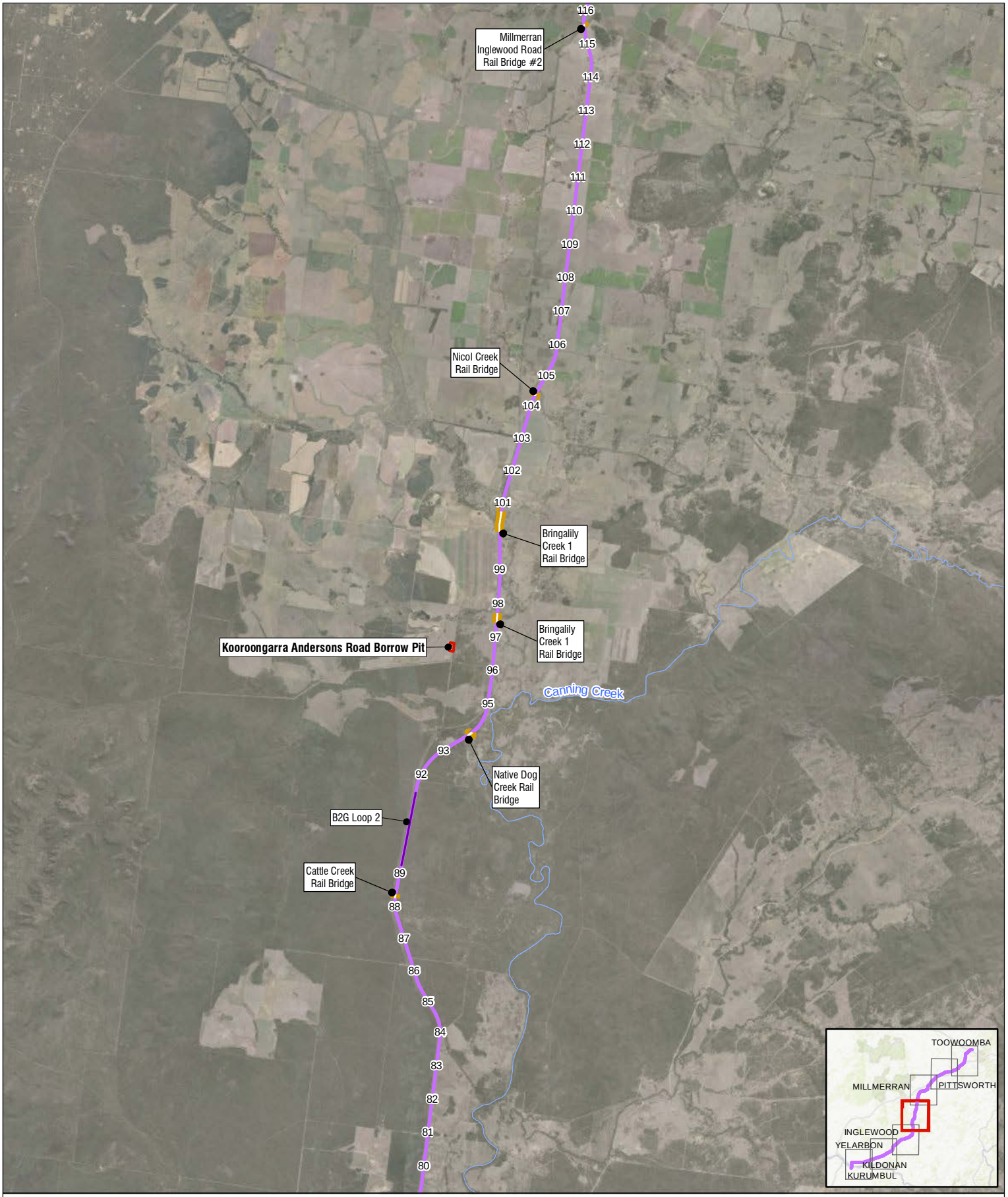
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Dec 2023)

INLAND RAIL B2G
CONSTRUCTION NOISE CONTOUR ASSESSMENT

Baseline and Road Traffic Noise & Vibration Measurement Locations

FIGURE 5-2 MAP 3 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Noise and vibration monitoring locations.mxd



1 km

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:148,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Noise Monitoring Location
- Vibration Monitoring Location
- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail
- Bridges and Viaducts
- State Boundaries
- Accommodation Camps
- Borrow Pits
- Turallin Miscellaneous Facility
- Whetstone MDC

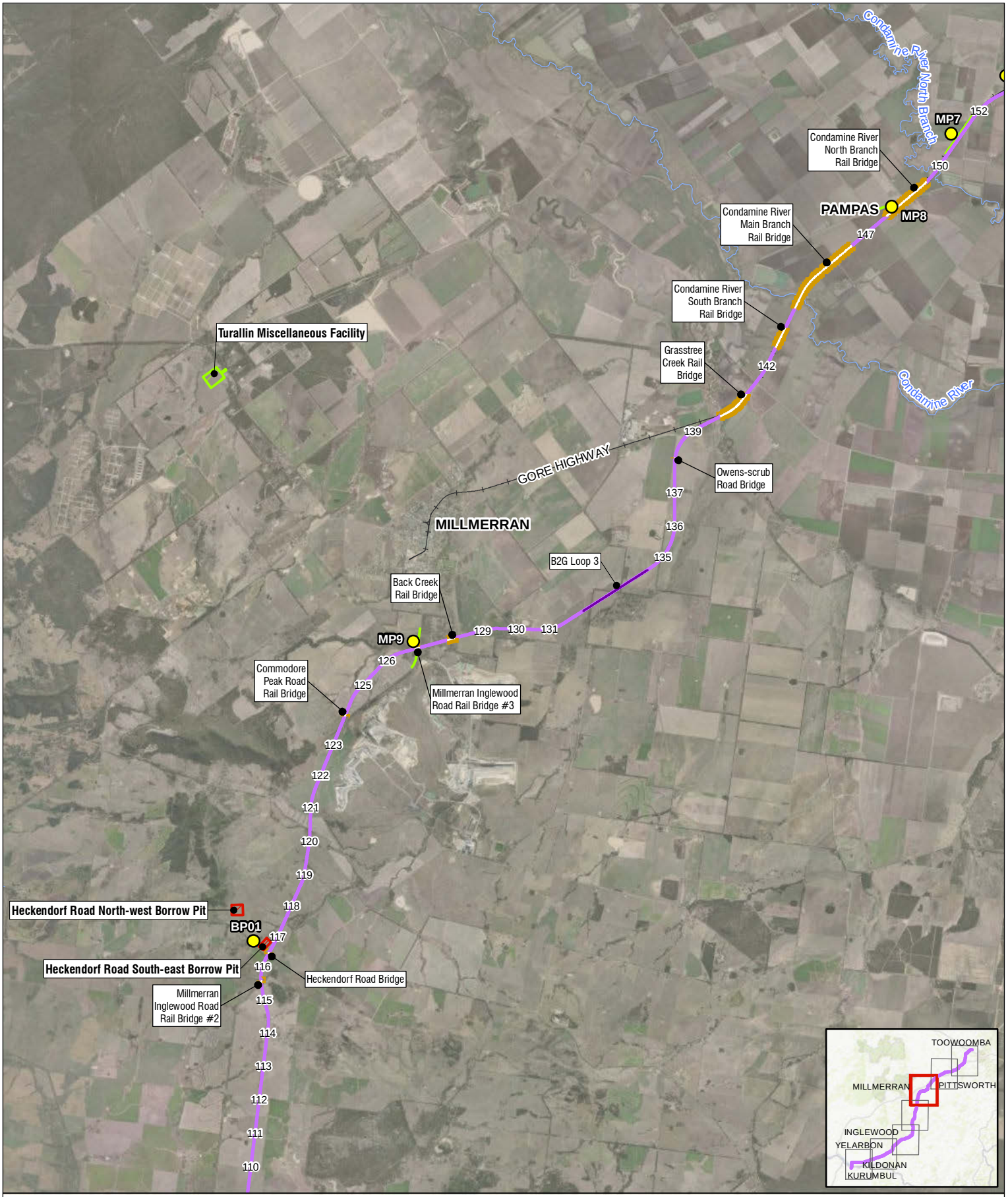
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Dec 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Baseline and Road Traffic Noise & Vibration Measurement Locations

FIGURE 5-2 MAP 4 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Noise and vibration monitoring locations.mxd



1 km

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:148,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Noise Monitoring Location
- Vibration Monitoring Location
- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail
- Bridges and Viaducts
- State Boundaries
- Accommodation Camps
- Borrow Pits
- Turallin Miscellaneous Facility
- Whetstone MDC

Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Dec 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Baseline and Road Traffic Noise & Vibration Measurement Locations

FIGURE 5-2 MAP 5 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Noise and vibration monitoring locations.mxd

1 km

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:148,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Noise Monitoring Location
- Vibration Monitoring Location
- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail
- Bridges and Viaducts
- State Boundaries
- Accommodation Camps
- Borrow Pits
- Turallin Miscellaneous Facility
- Whetstone MDC

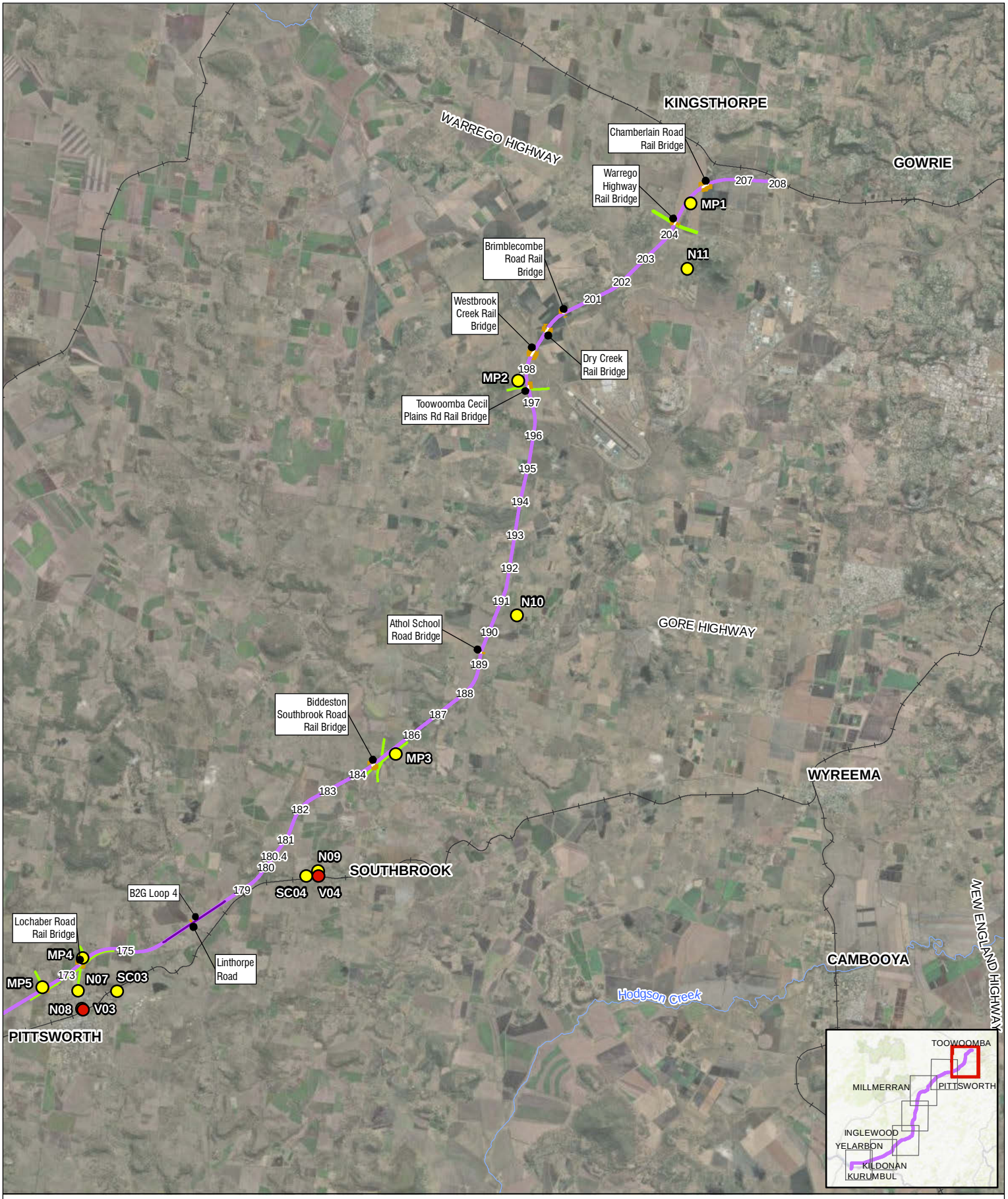
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Dec 2023)

INLAND RAIL B2G
CONSTRUCTION NOISE CONTOUR ASSESSMENT

Baseline and Road Traffic Noise & Vibration Measurement Locations

FIGURE 5-2 MAP 6 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Noise and vibration monitoring locations.mxd



1 km

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:148,000 at A4
Project Number:	620.031489
Date:	12-Nov-2024
Drawn by:	JG

SLR

- Noise Monitoring Location
- Vibration Monitoring Location
- Project Road Designs
- Watercourses
- Existing Railway
- Crossing Loops
- Rail
- Bridges and Viaducts
- State Boundaries
- Accommodation Camps
- Borrow Pits
- Turallin Miscellaneous Facility
- Whetstone MDC

Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Dec 2023)

INLAND RAIL B2G
CONSTRUCTION NOISE CONTOUR ASSESSMENT

Baseline and Road Traffic Noise & Vibration Measurement Locations

FIGURE 5-2 MAP 7 OF 7

H:\Projects-SLR\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Noise and vibration monitoring locations.mxd

Table 5-4 Baseline environmental monitoring sites

Site number	Address	Measurement start date	Measurement end date
N01	16 Georges Lane, Kurumbul	05/12/2018	12/12/2018
N02	36 Taloom Street, Yelarbon	05/12/2018	12/12/2018
N03	23 Lagoon Street, Yelarbon	05/12/2018	12/12/2018
N04	71 Kaboon Street, Yelarbon	05/12/2018	12/12/2018
N05	Lovells Crossing Road, Inglewood	06/12/2018	13/12/2018
N06	46 Daphne Street, Brookstead	06/12/2018	13/12/2018
N07	2B Short Street, Pittsworth	06/12/2018	13/12/2018
N08	11 Hadley Street, Pittsworth	07/12/2018	14/12/2018
N09	5 Bailey Street, Southbrook	07/12/2018	14/12/2018
N10	96 Wegener Road, Athol	07/12/2018	14/12/2018
N11	21A Jannuschs Road, Gowrie Mountain	07/12/2018	14/12/2018
MP1	11154 Warrego Highway, Kingsthorpe	13/06/2022	20/06/2022
MP2	1670 Toowoomba Cecil Plains Road, Biddeston	13/06/2022	20/06/2022
MP3	2347 Gore Highway, Southbrook	13/06/2022	20/06/2022
MP4	22 Lochaber Road, Pittsworth	14/06/2022	20/06/2022
MP5	Quibet Road, Scrubby Mountain	14/06/2022	20/06/2022
MP6	638 Brookstead Norwind Road, Brookstead	14/06/2022	20/06/2022
MP7	358 Elsden Road, Brookstead	14/06/2022	20/06/2022
MP8	6296 Gore Highway, Pampas	21/06/2022	29/06/2022
MP9	554 Millmerran Inglewood Road, Millmerran	21/06/2022	29/06/2022
MP10	71 Kaboon Street, Yelarbon	22/06/2022	30/06/2022
MP11	6 Taloom Street, Yelarbon	22/06/2022	30/06/2022
MP12	4 Bengalla Street, Yelarbon	22/06/2022	30/06/2022
BP01	Lot 111 Millmerran-Inglewood Road	10/01/2023	16/01/2023
SC01	Yelarbon State School	30/01/2023	08/02/2023
SC02	Brookstead State School	30/01/2023	03/02/2023
SC03	Pittsworth State High School	31/01/2023	05/02/2023
SC04	Southbrook Central State School	31/01/2023	09/02/2023
W01	26076 Cunningham Highway, Whetstone	19/09/2023	28/09/2023

The Rating Background Levels (RBL) determined in accordance with the CoP Vol 2 and L_{Aeq} noise levels are summarised in **Table 5-5**. The noise monitoring results indicate the following:

- Existing background noise levels are generally low, typically below 40 dBA during the daytime and evening and below 35 dBA during the night-time.

- The RBLs are characteristic of the steady-state rural noise environments where the main sources of noise are local road traffic, residential activities and natural sources, such as windblown vegetation and bird song.
- The noise levels highlight the potential sensitivity of the environment to the introduction of additional sources of noise associated with the construction phase of the Project.

Table 5-5 Baseline environmental noise levels

Monitoring site	Rating Background Levels, dBA			Ambient noise level, $L_{Aeq,15min}$ (dBA)		
	Daytime	Evening	Night-time	Daytime	Evening	Night-time
N01	30	34	28	47	50	48
N02	36	35	25	52	52	48
N03	41	40	24	52	49	45
N04	32	34	23	50	52	48
N05	31	33	23	46	45	39
N06	39	38	29	52	53	49
N07	35	40	27	48	50	44
N08	37	37	25	47	45	41
N09	40	37	30	48	49	45
N10	35	36	29	49	45	41
N11	35	31	26	45	44	39
MP1	38	33	28	54	49	54
MP2	34	29	20	59	47	49
MP3	39	33	21	55	56	54
MP4	36	30	23	62	58	59
MP5	42	28	23	64	59	60
MP6	42	35	22	63	63	60
MP7	35	28	20	55	54	57
MP8	40	32	26	59	61	58
MP9	34	28	20	68	49	49
MP10	29	29	25	56	55	52
MP11	37	27	19	62	61	58
MP12	48	48	39	55	51	49
BP01	28	40	29	43	46	43
SC01	36	37	35	50	52	48
SC02	36	38	42	54	52	57
SC03	37	40	38	52	50	49
SC04	40	43	38	51	52	48

Monitoring site	Rating Background Levels, dBA			Ambient noise level, $L_{Aeq,15min}$ (dBA)		
	Daytime	Evening	Night-time	Daytime	Evening	Night-time
W01	33	26	20	50	54	49

Note Daytime is 7.00 am to 6.00 pm, evening is 6.00 pm to 10.00 pm and night-time is 10.00 pm to 7.00 am.

5.5 Baseline ground vibration

Existing sources of ground vibration within the Project study area are generally limited to vehicle movements on the local road network, rail operations from the existing South Western Line and Millmerran Branch Line and occasional maintenance and construction activities.

Baseline ground vibration levels were monitored by the FFJV at four locations within the Project study area. The baseline ground vibration measurements were conducted to quantify Peak Particle Velocity (PPV) vibration levels over a 15-minute period. The measurements were conducted with a handheld monitor and triaxial accelerometer coupled to the ground with spikes and a 20 kg sandbag placed on top of the accelerometer.

The vibration monitoring results are summarised in **Table 5-6**.

Table 5-6 Baseline ground vibration monitoring results

Site number	Measurement location coordinates [1]	Measurement date	Measurement start time	PPV (mm/s)
V01	279,850 and 6,837,307	04/07/2019	11:44 am	0.13
V02	347,113 and 6,928,537	04/07/2019	2:03 pm	0.29
V03	365,590 and 6,933,805	04/07/2019	2:54 pm	0.10
V04	372,574 and 6,937,771	04/07/2019	3:30 pm	0.20

Note 1: GDA 1994 MGA Zone 56

The baseline ground vibration monitoring results were measured at or below the typical threshold of human perception of 0.14 mm/s to 0.3 mm/s (refer to **Section 3.3.1.5** for further guidance on vibration perception).

5.6 Pre-construction road traffic noise

Further to the baseline noise monitoring results presented in **Section 5.4**, the data from sites MP1 to MP12 was also processed to determine pre-construction road traffic noise levels within the study area. The road traffic noise monitoring (with concurrent traffic counting and weather monitoring) was conducted in accordance with the CoP Vol 1 at locations representative of receptor catchments potentially impacted by new or upgraded roads associated with the Project. The purpose of the pre-construction road traffic noise monitoring included:

- providing baseline data for comparative assessment of pre and post construction noise levels
- determining the relevant assessment criteria based on pre-construction noise levels
- verifying the noise model by comparing measured and calculated noise levels.

The measured pre-construction road traffic noise levels are summarised in **Table 5-7**. The FFJV's detailed noise monitoring results are presented in **Appendix B** and traffic data (i.e. traffic volumes, compositions and speed limits) is provided in **Appendix H**.

Table 5-7 Pre-construction road traffic noise levels

Location ID and Road	Facade or Free-field	Date	Measured Noise Levels, dBA			
			$L_{A10(18hour)}$	$L_{A10(12\ hour)}$	$L_{A10(1hour\ peak)}$	$L_{Aeq(24hour)}$
MP1–- Warrego Highway	1 m from facade	14/06/2022	51.0	52.7	59.5	51.7
		15/06/2022	50.3	52.1	55.5	50.2
		16/06/2022	54.3	55.1	57.9	51.9
		17/06/2022	57.8	59.2	67.5	56.4
MP2–- Toowoomba Cecil Plains Road	Free-field	14/06/2022	51.9	54.0	60.6	50.4
		15/06/2022	53.8	55.0	59.5	51.5
		16/06/2022	54.4	56.2	60.2	52.3
		17/06/2022	52.5	52.2	57.9	60.8
MP3–- Gore Highway	Free-field	14/06/2022	58.7	58.2	62.4	54.8
		15/06/2022	59.5	58.7	63.0	55.4
		16/06/2022	59.2	58.0	63.0	55.8
		17/06/2022	58.4	58.8	63.9	55.6
MP4–- Lochaber Road (Gore Highway)	1 m from facade	15/06/2022	62.1	61.1	71.4	60.4
		16/06/2022	56.4	53.6	63.5	55.9
		17/06/2022	59.4	59.5	64.8	56.7
MP5–- Quibet Road, Oakey Pittsworth Rd (Gore Highway)	Free-field	15/06/2022	64.7	64.9	67.1	61.4
		16/06/2022	66.4	67.6	69.6	63.0
		17/06/2022	64.4	65.6	67.4	61.0
MP6–- Brookstead Norwind Road (Gore Highway)	1 m from facade	15/06/2022	67.4	66.9	70.4	62.3
		16/06/2022	67.0	66.3	70.3	62.2
		17/06/2022	65.4	66.5	68.6	61.5
MP7–- Elsden Road (Gore Highway)	Free-field	15/06/2022	55.0	52.5	62.4	59.6
		16/06/2022	55.0	53.4	60.7	52.9
		17/06/2022	55.3	54.9	61.1	53.0
MP8–- Gore Highway	Free-field	22/06/2022	64.3	63.5	68.1	59.9
		23/06/2022	64.3	63.6	67.7	59.8
		24/06/2022	63.1	63.0	67.0	59.5
MP9–- Millmerran Inglewood Road	1 m from facade	22/06/2022	54.4	56.2	60.2	52.3
		23/06/2022	52.5	52.2	57.9	60.8
		24/06/2022	48.5	49.6	53.5	47.0
		27/06/2022	52.2	53.6	59.9	50.3
MP10–- Kaboon Street		23/06/2022	58.4	57.7	62.0	54.0
		24/06/2022	56.2	55.5	59.4	52.8

Location ID and Road	Facade or Free-field	Date	Measured Noise Levels, dBA			
			$L_{A10(18hour)}$	$L_{A10(12\ hour)}$	$L_{A10(1hour\ peak)}$	$L_{Aeq(24hour)}$
(Cunningham Highway)	1 m from facade	28/06/2022	59.4	58.9	62.0	54.8
MP11–- Taloom Street (Cunningham Highway)	1 m from facade	23/06/2022	63.4	64.5	67.8	61.4
		24/06/2022	61.8	63.1	65.5	60.2
		28/06/2022	63.6	64.9	68.1	61.5
MP12–- Bengalla Street, Wondalli Street (Cunningham Highway)	Free-field	23/06/2022	53.5	52.6	58.4	53.3
		24/06/2022	51.8	50.9	57.5	52.0
		28/06/2022	50.7	50.2	56.2	51.4

6.0 Construction noise and vibration impact assessment

6.1 Predicted construction noise levels

Predicted worst-case construction noise levels for the Project and an assessment of impacts are discussed in the following sections. Where the potential for construction noise impacts have been identified, noise mitigation measures have been provided in accordance with the CoP Vol 2.

6.1.1 Construction noise

6.1.1.1 Scenario 1 – establishment of laydown areas

The establishment of the 78 laydown areas required for the construction phase of the Project are expected to take place during Standard hours but may also occur during Non-Standard hours where compliance with the CoP Vol 2 lower limit is achievable. Predicted laydown areas construction noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

In addition to the detailed results in **Appendix C**, an assessment of predicted construction noise levels associated with the establishment of the laydown areas has been carried out for the most-affected sensitive receptors to each laydown area. This assessment is summarised in **Table 6-1** for Standard hours work and **Table 6-2** for Non-Standard hours work. **Bold** noise levels denote an exceedance of the noise criterion.

Table 6-1 Scenario 1 – establishment of laydown areas predicted construction noise levels – Standard hours

Laydown area	Number of sensitive receptors with predicted exceedances	Closest sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Highest predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
			Lower Limit	Upper Limit	
LDN031.0	0	324266 (residential)	50	65	44
LDN032.5	0	2008447 (park)	--	65	49
LDN033.2	0	2008447 (park)	--	65	49
LDN035.6	0	254188 (residential)	50	65	48
LDN000.9	0	254261 (residential)	50	65	31
LDN006.3	6	254168 (residential)	50	65	**75**
LDN016.0	0	254250 (residential)	50	65	50
LDN020.3	0	254276 (residential)	50	65	48
LDN025.9 [1]	59 (Yelarbon)	254558 (residential)	50	65	**66**
LDN030.0	0	254325 (residential)	50	65	36
LDN037.6	0	254657 (residential)	50	65	35
LDN049.8	0	254730 (residential)	50	65	44
LDN052.8	2	254787 (residential)	50	65	**54**
LDN054.2	1	254828 (residential)	50	65	**63**
LDN055.4	0	254828 (residential)	50	65	47
LDN060.4	0	255159 (residential)	50	65	36
LDN065.8	0	255248 (residential)	50	65	44
LDN067.6	0	255248 (residential)	50	65	44
LDN069.0	0	255223 (residential)	50	65	37

Laydown area	Number of sensitive receptors with predicted exceedances	Closest sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Highest predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
			Lower Limit	Upper Limit	
LDN073.0	0	255277 (residential)	50	65	49
LDN074.0	0	255277 (residential)	50	65	49
LDN081.0	0	255295 (residential)	50	65	40
LDN088.0	0	None within 2 km	--	--	--
LDN091.8	0	None within 2 km	--	--	--
LDN093.8	0	None within 2 km	--	--	--
LDN098.0	3	255346 (residential)	50	65	**57**
LDN100.6	1	255388 (residential)	50	65	**51**
LDN104.5	0	255455 (residential)	50	65	49
LDN112.1	0	255601 (residential)	50	65	43
LDN115.6	0	255691 (residential)	50	65	47
LDN116.0	1	255691 (residential)	50	65	**55**
LDN120.2	0	255835 (residential)	50	65	42
LDN123.6	2	256019 (residential)	50	65	**65**
LDN123.8	2	256019 (residential)	50	65	**65**
LDN126.9	2	256166 (residential)	50	65	**60**
LDN128.2	0	256192 (residential)	50	65	47
LDN129.5	3	256192 (residential)	50	65	**66**
LDN130.0	3	256248 (residential)	50	65	**67**
LDN130.4	3	256248 (residential)	50	65	**67**

Laydown area	Number of sensitive receptors with predicted exceedances	Closest sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Highest predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
			Lower Limit	Upper Limit	
LDN130.6	3	256248 (residential)	50	65	**67**
LDN138.5	0	256926 (residential)	50	65	43
LDN139.0	0	256817 (residential)	50	65	42
LDN140.2	0	256817 (residential)	50	65	42
LDN141.3	2	257028 (residential)	50	65	**57**
LDN143.0	0	259291 (residential)	50	65	43
LDN144.6	2	259291 (residential)	50	65	**53**
LDN147.1	10 (Pampas)	260123 (residential)	50	65	**64**
LDN149.0	1	260528 (residential)	50	65	**59**
LDN150.5	1	261084 (residential)	50	65	**58**
LDN150.9	2	261202 (residential)	50	65	**59**
LDN152.0	30 (Brookstead)	261927 (residential)	50	65	**67**
LDN153.1	10 (Brookstead)	261969 (residential)	50	65	**57**
LDN161.0	4	319191 (residential)	50	65	**60**
LDN163.3	1	319485 (residential)	50	65	**62**
LDN164.3	1	319481 (residential)	50	65	**58**
LDN165.6	1	319163 (residential)	50	65	**59**
LDN169.6	5 (Pittsworth)	323406 (residential)	50	65	**54**
LDN171.0	38 (Pittsworth)	320889 (residential)	50	65	**59**
LDN172.0	35 (Pittsworth)	322790 (residential)	50	65	**65**

Laydown area	Number of sensitive receptors with predicted exceedances	Closest sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Highest predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
			Lower Limit	Upper Limit	
LDN172.6	5 (Pittsworth)	323854 (residential)	50	65	**69**
LDN173.5	2	322552 (residential)	50	65	**66**
LDN175.5	4	319208 (residential)	50	65	**75**
LDN179.0	1	319003 (residential)	50	65	**51**
LDN183.0	2	319848 (residential)	50	65	**65**
LDN183.8	3	319297 (residential)	50	65	**63**
LDN185.0	4	319000 (residential)	50	65	**69**
LDN188.2	6	319104 (residential)	50	65	**66**
LDN192.3	0	2008345 (residential)	50	65	48
LDN196.2	3	319605 (residential)	50	65	**57**
LDN197.0	2	319349 (residential)	50	65	**53**
LDN198.1	2	319349 (residential)	50	65	**53**
LDN198.7	2	2008347 (residential)	50	65	**54**
LDN203.0	3	320557 (residential)	50	65	**57**
LDN204.2	2	315138 (residential)	50	65	**59**
LDN206.3	3	315421 (residential)	50	65	**72**
LDN206.9	3	315262 (residential)	50	65	**60**
Turallin facility	4	2008802 (residential)	50	65	**62**

Note 1: Includes both north and south laydown areas for LDN025.9.

Table 6-2 Scenario 1 – establishment of laydown areas predicted construction noise levels – Non-Standard hours

Laydown area	Number of sensitive receptors with predicted exceedances	Closest sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
			Lower Limit	Upper Limit	
LDN031.0	0	324266 (residential)	45	45	45
LDN032.5	0	2008447 (park)	--	65	50
LDN033.2	0	2008447 (park)	--	65	50
LDN035.6	1	254188 (residential)	45	45	**48**
LDN000.9	0	254261 (residential)	45	45	32
LDN006.3	6	254168 (residential)	45	45	**75**
LDN016.0	2	254250 (residential)	45	45	**50**
LDN020.3	2	254276 (residential)	45	45	**48**
LDN025.9 [1]	114 (Yelarbon)	254558 (residential)	45	45	**66**
LDN030.0	0	254325 (residential)	45	45	38
LDN037.6	0	254657 (residential)	45	45	36
LDN049.8	0	254730 (residential)	45	45	45
LDN052.8	2	254787 (residential)	45	45	**54**
LDN054.2	1	254828 (residential)	45	45	**63**
LDN055.4	1	254828 (residential)	45	45	**47**
LDN060.4	0	255159 (residential)	45	45	37
LDN065.8	0	255248 (residential)	45	45	45
LDN067.6	0	255248 (residential)	45	45	45
LDN069.0	0	255223 (residential)	45	45	39

Laydown area	Number of sensitive receptors with predicted exceedances	Closest sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
			Lower Limit	Upper Limit	
LDN073.0	1	255277 (residential)	45	**45**	**50**
LDN074.0	1	255277 (residential)	45	**45**	**50**
LDN081.0	0	255295 (residential)	45	45	41
LDN088.0	0	None within 2 km	--	--	--
LDN091.8	0	None within 2 km	--	--	--
LDN093.8	0	None within 2 km	--	--	--
LDN098.0	4	255346 (residential)	45	45	**57**
LDN100.6	6	255388 (residential)	45	45	**52**
LDN104.5	2	255455 (residential)	45	45	**50**
LDN112.1	0	255601 (residential)	45	45	44
LDN115.6	2	255691 (residential)	45	45	**55**
LDN116.0	2	255691 (residential)	45	45	**55**
LDN120.2	0	255835 (residential)	45	45	43
LDN123.6	3	256019 (residential)	45	45	**65**
LDN123.8	3	256019 (residential)	45	45	**65**
LDN126.9	2	256166 (residential)	45	45	**60**
LDN128.2	2	256192 (residential)	45	45	**48**
LDN129.5	3	256192 (residential)	45	45	**66**
LDN130.0	3	256248 (residential)	45	45	**68**
LDN130.4	3	256248 (residential)	45	45	**68**

Laydown area	Number of sensitive receptors with predicted exceedances	Closest sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
			Lower Limit	Upper Limit	
LDN130.6	3	256248 (residential)	45	45	**68**
LDN138.5	0	256926 (residential)	45	45	44
LDN139.0	0	256817 (residential)	45	45	43
LDN140.2	0	256817 (residential)	45	45	43
LDN141.3	2	257028 (residential)	45	45	**57**
LDN143.0	0	259291 (residential)	45	45	43
LDN144.6	5	259291 (residential)	45	45	**53**
LDN147.1	12 (Pampas)	260123 (residential)	45	45	**64**
LDN149.0	2	260528 (residential)	45	45	**59**
LDN150.5	4	261084 (residential)	45	45	**58**
LDN150.9	4	261202 (residential)	45	45	**59**
LDN152.0	34 (Brookstead)	261927 (residential)	45	45	**67**
LDN153.1	17 (Brookstead)	261969 (residential)	45	45	**57**
LDN161.0	4	319191 (residential)	45	45	**61**
LDN163.3	5	319485 (residential)	45	45	**62**
LDN164.3	6	319481 (residential)	45	45	**58**
LDN165.6	1	319163 (residential)	45	45	**59**
LDN169.6	25 (Pittsworth)	323406 (residential)	45	45	**54**
LDN171.0	72 (Pittsworth)	320889 (residential)	45	45	**59**
LDN172.0	68 (Pittsworth)	322790 (residential)	45	45	**65**

Laydown area	Number of sensitive receptors with predicted exceedances	Closest sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
			Lower Limit	Upper Limit	
LDN172.6	19 (Pittsworth)	323854 (residential)	45	45	**70**
LDN173.5	2	322552 (residential)	45	45	**66**
LDN175.5	8	319208 (residential)	45	45	**75**
LDN179.0	1	319003 (residential)	45	45	**51**
LDN183.0	5	319848 (residential)	45	45	**65**
LDN183.8	7	319297 (residential)	45	45	**63**
LDN185.0	6	319000 (residential)	45	45	**69**
LDN188.2	10	319104 (residential)	45	45	**66**
LDN192.3	1	2008345 (residential)	45	45	**48**
LDN196.2	6	319605 (residential)	45	45	**57**
LDN197.0	5	319349 (residential)	45	45	**53**
LDN198.1	3	319349 (residential)	45	45	**53**
LDN198.7	2	2008347 (residential)	45	45	**54**
LDN203.0	18	320557 (residential)	45	45	**57**
LDN204.2	3	315138 (residential)	45	45	**59**
LDN206.3	11	315421 (residential)	45	45	**72**
LDN206.9	11	315262 (residential)	45	45	**60**
Turallin facility	4	2008802 (residential)	45	45	**62**

Note 1: Includes both north and south laydown areas for LDN025.9.

The assessment identified the following:

- Noise levels of up to 75 dBA $L_{Aeq,adj,15min}$ are predicted with the dump trucks being the dominant noise source at sensitive receptor locations. Construction heavy vehicle noise mitigation measures are detailed in **Section 7.0**.
- 46 of the assessed laydowns areas are predicted to exceed the Standard hours lower limit of 50 dBA $L_{Aeq,adj,15min}$ at the closest sensitive receptor thereby triggering the requirement for all reasonable and practicable mitigation measures in accordance with the CoP Vol 2.
- 13 laydown areas are predicted to exceed the upper limit of 65 dBA $L_{Aeq,adj,15min}$ at sensitive receptors during Standard hours with the highest noise levels resulting from laydown areas LDN006.3 and LDN175.5. For these 13 laydown areas, community consultation will be required in advance of the Standard hours works occurring. Given the nature of works and the limited duration of the laydown area establishment works (i.e. up to 30 days), it is anticipated that noise impacts during Standard hours would be avoided with the application of good practice noise mitigation measures (refer to **Section 7.0** for further details).
- It is expected that the establishment of laydown areas for the project would be completed during Standard hours where practicable. However, as shown in **Table 6-2**, the modelling and assessment of worst-case Non-Standard hours works indicates that noise levels would likely comply with the 45 dBA $L_{Aeq,adj,15min}$ noise limit at the nearest receiver during Non-Standard hours construction at 19 laydown areas. Applying reasonable and practicable noise mitigation to these works, including limiting the number of dump trucks and graders operating and using the quietest available equipment, would potentially increase the Non-Standard hours noise limit compliant laydown areas to 34 (i.e. based on a 10 dBA noise reduction).
- Given the large number of predicted Non-Standard hours limit exceedances at Yelarbon, Pampas, Brookstead and Pittsworth, it is recommended that the site laydown establishment works be restricted to Standard Hours only in these areas.
- In relation to the non-residential sensitive receptors, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit is predicted for:
    - Yelarbon Soldiers Memorial Hall (254564) by up to 10 dBA $L_{Aeq,adj,15min}$ due to the proximity of LDN025.
    - Pampas Memorial Hall (260123) by up to 13 dBA $L_{Aeq,adj,15min}$ due to LDN147.1.
    - Brookstead Hall (262035) by a marginal 1 dBA (i.e. 53 dBA $L_{Aeq,adj,15min}$) due to LDN152.0
    - Harvest New Life Church (322790) by up to 13 dBA $L_{Aeq,adj,15min}$ due to LDN172.0.

  Consultation with these sensitive receptors is required during the detailed design stage to coordinate construction hours that would minimise impact on the use of these venues. It is likely that the laydown area establishment works could be completed whilst these venues are not in use.

An assessment of noise associated with ongoing operation of the laydown areas has not been completed except for the two concrete batch plant sites (refer to **Section 6.1.1.4**). Noise levels associated with the ongoing operation of the laydown areas would be expected to be below the site establishment noise levels based on the more intensive nature of these works. Nevertheless, modelling and assessment of laydown operational noise levels would

be completed as part of the detailed design stage works when the requirements of the sites are finalised prior to construction.

6.1.1.2 Scenario 2 – accommodation camp construction

The establishment of the two accommodation camps required for the construction phase of the Project is expected to take place during Standard hours but may also occur during Non-Standard hours where compliance with the CoP Vol 2 lower limit is achievable. Predicted accommodation camp construction noise levels for all noise sensitive receptors surrounding the two sites are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Table 6-3** for Standard hours work and **Table 6-4** for Non-Standard hours work.

Table 6-3 Scenario 2 – predicted accommodation camp construction noise levels – Standard hours

Accommodation camp	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
		Lower Limit	Upper Limit	
Yelarbon	254347 (residential)	50	65	29
Inglewood	255307 (residential)	50	65	26

Table 6-4 Scenario 2 – predicted accommodation camp construction noise levels – Non-Standard hours

Accommodation camp	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
		Lower Limit	Upper Limit	
Yelarbon	254347 (residential)	45	45	31
Inglewood	255307 (residential)	45	45	27

The assessment of potential noise levels associated with the construction of the two Project accommodation camps has identified the following:

- No exceedance of the CoP Vol 2 noise criteria predicted for both accommodation camps, with predicted noise levels well below the Standard and Non-Standard hours noise limits.
- No construction noise mitigation measures are required for the Project during the construction of the two accommodation camps.

6.1.1.3 Scenario 3 – temporary accommodation camp operations

Operation of the two accommodation camps is required during the construction phase of the Project on a 24-hour basis. Consequently, a lower limit of 45 dBA $L_{Aeq,adj,15min}$ has been applied to the assessment of Standard hours operational noise from the accommodation camps.

Predicted accommodation camp operational noise levels for all noise sensitive receptors surrounding the two sites are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Table 6-5** for Standard hours operations and **Table 6-6** for Non-Standard hours operations.

Table 6-5 Scenario 3 – predicted accommodation camp operational noise levels – Standard hours

Accommodation camp	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
		Lower Limit	Upper Limit	
Yelarbon	254347 (residential)	45	65	<20
Inglewood	255307 (residential)	45	65	<20

Table 6-6 Scenario 3 – predicted accommodation camp operational noise levels – Non-Standard hours

Accommodation camp	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
		Lower Limit	Upper Limit	
Yelarbon	254347 (residential)	45	45	20
Inglewood	255307 (residential)	45	45	<20

The assessment of potential noise levels associated with the operation of the two Project accommodation camps has identified the following:

- No exceedance of the CoP Vol 2 noise criteria predicted for the Yelarbon and Inglewood accommodation camps.
- No noise mitigation measures are required for the two Project accommodation camps.

6.1.1.4 Scenario 4 – temporary concrete batch plant operation

The establishment of the two temporary concrete batch plants at laydown areas LDN138.5 and LDN150.5 are required for the construction phase of the Project. Consequently, a lower limit of 45 dBA $L_{Aeq,adj,15min}$ has been applied to the assessment of Standard hours concrete batch plant operational noise.

Predicted concrete batch plant operation noise levels for all noise sensitive receptors surrounding the two sites are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Table 6-7** for Standard hours work and **Table 6-8** for Non-Standard hours work.

Table 6-7 Scenario 4 – predicted concrete batch plant operation noise levels – Standard hours

Batch plant site	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
		Lower Limit	Upper Limit	
LDN138.5	256773 (residential)	45	65	37
	256813 (residential)	45	65	37
	256926 (residential)	45	65	37
LDN150.5	261227 (residential)	45	65	**51**
	261084 (residential)	45	65	**47**
	261958 (residential)	45	65	**46**
	261452 (residential)	45	65	42
	261321 (commercial: Vary Agricultural Services)	--	65	50
	261749 (Brookstead State School)	73 [1]	73 [1]	33

Note 1: External noise limit based on the internal limit of 45 dBA plus a Weighted Sound Level Difference (D_W) rating of 28 dB as measured by WSP at Brookstead State School (WSP Report *B2G Inland Rail Background Noise Monitoring and Facade Sound Insulation testing* dated 21 February 2023). Conversion to an external noise limit allows for direct assessment of the model predicted noise levels.

Table 6-8 Scenario 4 – predicted concrete batch plant operation noise levels – Non-Standard hours

Batch plant site	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA)
		Lower Limit	Upper Limit	
LDN138.5	256773 (residential)	45	45	37
	256813 (residential)	45	45	37
	256926 (residential)	45	45	38
LDN150.5	261227 (residential)	45	45	**51**
	261084 (residential)	45	45	**47**
	261958 (residential)	45	45	**46**
	261452 (residential)	45	45	42

The assessment of potential noise levels associated with the operation of the two Project concrete batch plants has identified the following:

- No exceedance of the CoP Vol 2 noise criteria (Standard or Non-Standard hours) predicted for the batch plant at LDN138.5.
- Exceedance of the 45 dBA $L_{Aeq,adj,15min}$ noise limit is predicted for the three closest residential receptors to the LDN150.5 concrete batch plant. The concrete batch plant, with an assumed overall SWL of 115 dBA, is predicted to be the dominant noise source from the site.

- Two of the exceedances are marginal (i.e. up to 2 dBA) and the highest exceedance of 6 dBA is predicted for sensitive receptor 261227. It is noteworthy that the Gore Highway is located between sensitive receptor 261227 and the concrete batch plant site with existing ambient noise levels in the order of 54 to 57 dBA $L_{Aeq,adj,15min}$ (based on the results in **Table 5-5** from the MP7 noise monitoring site) which is 3 to 6 dBA higher than the predicted noise level.
- Low frequency noise impacts are not predicted for the LDN150.5 site with the difference between the C and A frequency weighted noise levels calculated to be 14 dB at sensitive receptors 261227 and 261321 (i.e. less than 15 dB in accordance with the CoP Vol 2). Noting this assessment is based on an assumed SWL for the batch plant, further assessment would be required during detailed design to confirm these findings.

Regarding the predicted 6 dBA exceedance, further assessment during the detailed design stage of the concrete batch plant is required to confirm the exceedance and allow for reasonable and practicable mitigation measures to be incorporated into the design. Reasonable and practicable mitigation measures may include selection of quieter plant, careful design/ layout of the site to direct noise away from sensitive receptors, acoustic screening of elevated components, shielding provided by other site structures (e.g. offices, crib rooms, toilet blocks etc).

The potential for noise impact associated with construction vehicles (e.g. concrete trucks) utilising the road network surrounding the concrete batch plant sites is included in **Section 6.1.4.**

6.1.1.5 Scenario 5 – Whetstone MDC operation

The Whetstone MDC will be required to operate for the duration of the construction phase of the Project. Consequently, a lower limit of 45 dBA $L_{Aeq,adj,15min}$ has been applied to the assessment of Standard hours (and Non-Standard hours) operational noise.

Modelling of Whetstone MDC operational noise levels (i.e. Scenarios 5b to 5f) has incorporated the following noise mitigation measures to achieve compliance with the 45 dBA $L_{Aeq,adj,15min}$ noise limit:

- Quiet plant selection and acoustic design to limit the noise from the sand blasting activity to no more than 125 dBA SWL. Acoustic design options could include the addition of acoustic screening to the specific item of plant associated with the sand blasting activity and adding attenuators to fan inlets, outlets or treatment to duct work.
- Use quiet plant selection to limit the noise from the electric conveyor motors to no more than 101 dBA SWL. If more than 10 conveyor motors are needed, then a reduced SWL for each unit may be required.

Predicted Whetstone MDC site establishment and operational noise levels, incorporating the above noise mitigation measures, for all noise sensitive receptors surrounding the site are tabulated in **Table 6-9** and noise contour maps are also presented in **Appendix D**. Noise levels presented in **Table 6-9** and **Appendix D** have been predicted based on the evening and night-time meteorological conditions.

Predicted Whetstone MDC site establishment and mitigated operation noise levels detailed in **Table 6-9** has indicated the following:

- Exceedances of up to 17 dBA above the 45 dBA $L_{Aeq,adj,15min}$ noise limit have been predicted during the site establishment stage of the work based on the modelled

worst-case scenario. It is recommended that the site establishment works are completed during standard hours to minimise the potential impact. Further to this, it is noteworthy that the highest predicted noise level of 60 dBA at sensitive receptors 254681, 254682 and 254689 is compliant with the standard hours upper limit of 65 dBA $L_{Aeq,adj,15min}$ applied across the Project. Good practice noise mitigation measures (as detailed in **Section 6.1.5**) would be required during the standard hours site establishment work.

- No exceedances have been predicted during Scenarios 5b (rail stockpiling), 5c (sleeper stockpiling), 5d (ballast stockpiling) and 5e (workshop activities), when these activities occur in isolation.
- For Scenario 5f (i.e. all activities excluding laydown area activities), compliance with the 45 dBA $L_{Aeq,adj,15min}$ noise limit is predicted for all sensitive receptors except for 254705 where a marginal 1 dBA exceedance is predicted.
- For Scenario 5g (i.e. all activities including laydown area activities), marginal 1 dBA exceedances are predicted for sensitive receptors 254689 and 254705. The predicted marginal 1 dBA exceedances are primarily attributed to sandblasting associated with Scenario 5b.

Considering the above, it is recommended that sandblasting is restricted to standard hours only and conducted within an acoustically rated partial enclosure as per the guidance provided in AS 2436. This would result in compliance with the 45 dBA $L_{Aeq,adj,15min}$ lower limit at all sensitive receptors.

Further, it is recommended that site establishment works are conducted during Standard hours.

The final noise mitigation requirements would be reviewed during the detailed design stage of the Project to confirm the outcomes of this preliminary assessment.

Table 6-9 Scenario 5 – predicted Whetstone MDC establishment and operational noise levels – all hours

Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA) [1]						
	Lower Limit	Upper Limit	Scenario 5a site establishment [2]	Scenario 5b rail stockpiling	Scenario 5c sleeper stockpiling	Scenario 5d ballast stockpiling	Scenario 5e workshop activities	Scenario 5f combined noise	Scenario 5g combined noise with laydown
254675 (residential)	45	45	**48**	34	33	37	15	38	39
254681 (residential)	45	45	**60**	41	34	43	19	45	45
254682 (residential)	45	45	**60**	41	35	43	23	45	45
254683 (residential)	45	45	**59**	41	35	43	21	45	45
254689 (residential)	45	45	**60**	41	35	44	21	45	**46**
254690 (residential)	45	45	**59**	41	35	44	21	45	45
254691 (residential)	45	45	**59**	41	35	44	21	45	45
254705 (residential)	45	45	44	42	33	41	25	**46**	**46**
254714 (residential)	45	45	**51**	34	32	39	31	39	40
254717 (residential)	45	45	**49**	33	31	34	26	37	39
319210 (residential)	45	45	**57**	33	30	37	23	37	40

Note 1: Noise levels predicted in SoundPLAN using the Non-Standard hours weather parameters detailed in Table 4-2.

Note 2: Conservatively assessed against the 45 dBA LAeq,adj,15min Standard Hours criterion noting these works would likely take less than 6 months however the facility would be operated for the duration of the construction phase of the Project. The Standard Hours upper limit of 65 dBA LAeq,adj,15min has been applied across the Project.

6.1.1.6 Scenario 6 – borrow pits

The six (6) Project borrow pit sites will be required to operate for the duration of the construction phase of the Project. Consequently, a lower limit of 45 dBA $L_{Aeq,adj,15min}$ has been applied to the assessment of Standard hours (and Non-Standard hours) operational noise.

Predicted worst-case borrow pit site establishment and operational noise levels for all noise sensitive receptors surrounding the proposed sites are provided in **Table 6-10**. Noise contour maps are also presented in **Appendix D**.

The predicted noise levels in **Table 6-10** indicates the following:

- Compliance with the stringent 45 dBA $L_{Aeq,adj,15min}$ noise limit is predicted for the following borrow pit sites:
  - Mooroobie Lane, with the highest noise level of 42 dBA $L_{Aeq,adj,15min}$ predicted at sensitive receptor 2008455 when all proposed borrow pit activities are taking place at the site (i.e. combined operations).
  - Mosquito Creek Road, with the highest noise level of 29 dBA $L_{Aeq,adj,15min}$ predicted at sensitive receptor 2008467.
  - Millmerran-Inglewood Road, with the highest noise level of 39 dBA $L_{Aeq,adj,15min}$ predicted at sensitive receptor 2008465.
  - Kooroongarra Andersons Road, with the highest noise level of 45 dBA $L_{Aeq,adj,15min}$ predicted at sensitive receptor 255333.
  - Heckendorf Road (north-west pit), with the highest noise level of 41 dBA $L_{Aeq,adj,15min}$ predicted at sensitive receptors 255691, 2008485 and 2008486 (i.e. when the rifle range is in use).
- Exceedance of the 45 dBA $L_{Aeq,adj,15min}$ noise limit is predicted at the following two borrow pit sites:
  - Taits Red Ridge, with exceedances predicted at two sensitive receptors (i.e. 254656 and 254666) of up to 5 dBA with the exceedances attributed to the operation of the rock hammer and crushing and screening equipment. Borrow pit material loading is predicted to comply at all sensitive receptors surrounding this site.
  - Heckendorf Road (south-east pit), with exceedances of up to 11 dBA predicted at sensitive receptor 255691. No cumulative noise impacts associated with the simultaneous operation of the south-east and north-west borrow pits have been predicted.

Considering the above, it is recommended that the operation of the D10 dozer during site establishment, rock hammering and/or crushing and screening activities required at the Taits Red Ridge and Heckendorf Road (south-east) borrow pits be restricted to Standard Hours to minimise the potential impact.

It should be noted that the noise modelling results in **Table 6-10** represent the worst-case scenario with all noise sources (unmitigated) operating simultaneously at existing ground level. The potential for reducing equipment noise emission levels through selection of quieter plant, locating equipment within the partially excavated pits and use of temporary bunding would be investigated further during the detail design stage of the Project.

Table 6-10 Predicted borrow pit noise levels

Borrow pit site	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA) [1]				
		Lower Limit	Upper Limit	Scenario 6a Site establishment	Scenario 6b Excavation (with rock hammer)	Scenario 6c Crush and screen	Scenario 6d Loading	Scenario 6e Combined Operations
Mooroobie Lane	2008452	45	45	28	29	30	23	33
	2008453	45	45	25	26	26	20	29
	2008454	45	45	33	34	34	27	38
	2008455	45	45	37	39	39	31	42
	2008456	45	45	34	36	36	29	39
	2008457	45	45	35	36	36	29	40
	2008458	45	45	18	18	19	13	22
	2008459	45	45	18	18	19	13	22
Taits Red Ridge	254325	45	45	16	18	19	12	22
	254656	45	45	43	**47**	**46**	37	**50**
	254666	45	45	43	**46**	45	37	**49**
	2008432	45	45	26	29	29	20	32
	2008460	45	45	26	29	30	21	33
	2008461	45	45	18	20	21	13	24
	2008464	45	45	17	19	20	12	22
Mosquito Creek Road	2008465 East	45	45	21	23	24	16	27
	2008466	45	45	20	23	24	15	27

Borrow pit site	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA) [1]				
		Lower Limit	Upper Limit	Scenario 6a Site establishment	Scenario 6b Excavation (with rock hammer)	Scenario 6c Crush and screen	Scenario 6d Loading	Scenario 6e Combined Operations
	2008467	45	45	23	26	26	18	29
	2008468	45	45	19	21	22	15	25
Millmerran-Inglewood Road	255277	45	45	25	28	28	20	31
	255282	45	45	31	34	34	25	37
	2008465 West	45	45	33	36	36	27	39
	2008466	45	45	27	29	30	22	33
Kooroongarra Andersons Road	255318	45	45	38	39	39	30	43
	255333	45	45	39	42	42	33	45
	255350	45	45	23	24	25	17	28
	255377	45	45	22	23	23	15	26
	255387	45	45	21	22	23	14	26
	255394	45	45	18	19	20	13	23
	2008469	45	45	18	19	20	12	23
	2008470	45	45	24	25	26	18	29
Heckendorf Road (north-west pit)	255605	45	45	20	22	23	16	26
	255617	45	45	24	26	27	18	30
	255621	45	45	24	27	27	18	30
	255640	45	45	24	27	27	19	30
	255641	45	45	27	29	30	22	33

Borrow pit site	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA) [1]				
		Lower Limit	Upper Limit	Scenario 6a Site establishment	Scenario 6b Excavation (with rock hammer)	Scenario 6c Crush and screen	Scenario 6d Loading	Scenario 6e Combined Operations
	255691	45	45	35	38	38	29	41
	255776	45	45	31	34	34	26	37
	255835	45	45	25	28	28	20	31
	255861	45	45	22	23	24	17	27
	255892	45	45	23	25	26	19	29
	2008476	45	45	28	30	31	23	34
	2008477	45	45	20	22	23	16	26
	2008478	45	45	18	19	20	14	23
	2008479	45	45	24	26	26	19	29
	2008480	45	45	26	28	29	22	32
	2008481	45	45	33	36	36	28	39
	2008483	45	45	18	20	21	14	24
	2008484	45	45	19	22	23	15	26
	2008485	45	45	35	37	38	30	41
	2008486 [1]	--	65	35	37	38	30	41
Heckendorf Road (south-east pit)	255605	45	45	23	26	26	18	29
	255617	45	45	25	27	28	20	31
	255621	45	45	21	23	24	16	27
	255640	45	45	30	33	33	24	36

Borrow pit site	Sensitive receptor	Code of Practice Noise Criteria $L_{Aeq,adj,15min}$ (dBA)		Predicted facade corrected $L_{Aeq,adj,15min}$ construction noise level (dBA) [1]				
		Lower Limit	Upper Limit	Scenario 6a Site establishment	Scenario 6b Excavation (with rock hammer)	Scenario 6c Crush and screen	Scenario 6d Loading	Scenario 6e Combined Operations
	255641	45	45	33	35	36	27	39
	255691	45	45	**50**	**53**	**52**	44	**56**
	255776	45	45	32	35	35	26	38
	255835	45	45	21	23	24	17	27
	255861	45	45	20	22	23	15	26
	255892	45	45	18	20	21	13	24
	2008476	45	45	23	25	26	19	29
	2008477	45	45	<10	<10	<10	<10	<10
	2008478	45	45	<10	<10	<10	<10	<10
	2008479	45	45	19	21	22	14	25
	2008480	45	45	26	28	29	21	32
	2008481	45	45	27	29	30	22	33
	2008483	45	45	17	19	20	12	23
	2008484	45	45	24	27	27	18	30
	2008485	45	45	27	30	30	22	33
	2008486 [1]	--	65	30	33	34	24	37

Note 1: Rifle range.

6.1.1.7 Scenario 7 – earthworks (clearing and grubbing)

The initial stages of earthworks involving clearing and grubbing is expected to take place during Standard hours, however, may also be undertaken during Non-Standard daylight hours where compliance with the CoP Vol 2 can be achieved. Predicted clearing and grubbing noise levels, including scenarios with and without dozers and mulchers, for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

The distribution of predicted L_{Aeq} clearing and grubbing noise levels over the Project alignment at all sensitive receptors are summarised in:

- **Figure 6-1** for Standard hours work with all equipment operating.
- **Figure 6-2** for Non-Standard hours work with all equipment operating.
- **Figure 6-3** for Standard hours work with all equipment operating except dozers and mulchers.
- **Figure 6-4** for Non-Standard hours work with all equipment operating except dozers and mulchers.

The assessment of potential construction noise levels associated with the initial stages of earthworks (i.e. clearing and grubbing) during Standard hours has identified the following:

- As shown in **Figure 6-1**, construction noise levels associated with clearing and grubbing across the Project are predicted to exceed the Standard hours upper noise limit at 117 sensitive receptors who surround the work areas.
- The majority of the upper limit exceedances occur within the townships of Yelarbon, Brookstead and Pittsworth, with exceedances of up to 24 dBA thereby requiring all reasonable and practicable noise mitigation measures to be applied to minimise the predicted impact. As shown in the construction noise contour maps presented in **Appendix D**, the 65 dBA $L_{Aeq,adj,15min}$ noise contour line (i.e. the upper noise limit applicable to residential sensitive receptors) extends approximately 150 m from the earthworks with the predicted impact limited to the first and second rows of dwellings within the Yelarbon, Brookstead and Pittsworth townships. The noise contour maps for Pittsworth indicates that less than a quarter of the township, nearest to the proposed works, is predicted to experience earthworks construction noise levels that exceed the 50 dBA $L_{Aeq,adj,15min}$ lower noise limit.
- Regarding the predicted upper noise limit exceedances within the townships, noise impacts associated with clearing and grubbing would be expected to be limited in duration and intensity given these areas are already relatively cleared particularly through Yelarbon within the existing rail line.
- Project areas north of Yelarbon (approximate Ch 30.0 km) to just south of Brookstead (approximate Ch 147.0 km) are predicted to result in three upper noise limit exceedances at sensitive receptors.
- For clearing and grubbing areas of the Project where operation of dozers and mulchers can be avoided (i.e. the dominant noise sources), the number of sensitive receptors predicted to exceed the upper noise limit is reduced (from 117 receptors) to 68 (as shown **Figure 6-4**). Further to this, similar noise levels would be expected from a scenario involving operation of just the excavator (or truck) and mulcher. This may give the construction contractor more flexibility with where the mulcher is

operated if it can be separated from the other equipment in the fleet (e.g. scrapers, dozers etc).

- Clearing and grubbing construction noise levels have been predicted for the following educational receptors:
  - Yelarbon State School: up to 57 dBA $L_{Aeq,adj,15min}$, which complies with external noise limit of 71 dBA.
  - Brookstead State School up to 65 dBA $L_{Aeq,adj,15min}$, which complies with external noise limit of 73 dBA.

    As noted above, the areas of the Project in proximity to these schools would require very limited clearing and therefore the duration of exposure to noise from this activity would be brief and potentially could be scheduled outside of schooling hours or during school holidays.
- Exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit is predicted for (254564) Yelarbon Soldiers Memorial Hall (up to 73 dBA), (260123) Pampas Memorial Hall (up to 73 dBA), (260154) Pampas Rural Fire Shed (up to 78 dBA), (262035) Brookstead Hall (up to 56 dBA) and the (322790) Harvest New Life Church (up to 63 dBA). Consultation with these sensitive receptors is required during the detailed design stage to coordinate construction hours that would minimise impact on the use of these venues.

The assessment of potential construction noise levels associated with clearing and grubbing during Non-Standard hours has identified the following:

- As shown in **Figure 6-2**, there are some areas of the Project where compliance with the 45 dBA $L_{Aeq,adj,15min}$ noise limit would likely be achieved. Noise modelling of the section of the Project alignment between approximate Ch 55.0 to Ch 95.0 km (refer to the x-axis of **Figure 6-2**) indicates only two sensitive receptors predicted to exceed the 45 dBA noise limit (i.e. by up to 4 dBA). Applying good practice noise mitigation measures (as detailed in **Section 7.0**) would be expected to result in compliance with the noise limit:
- For most of the Project alignment, clearing and grubbing noise levels are predicted to significantly exceed the 45 dBA $L_{Aeq,adj,15min}$ Non-Standard hours noise limit, that is where sensitive receptors are in proximity to the work areas. Even with all reasonable and practicable noise mitigation measures applied to these works, large sections of the Project alignment would not be suitable for Non-Standard hours clearing and grubbing works given reductions in noise level in the order of 40 dBA would be required even without the operation of dozers and mulchers.

Further to the above, it should be noted that the assessment is based on predicted worst-case noise levels where all proposed construction equipment is operating simultaneously at its closest location relative to individual sensitive receptors. There may be opportunities to refine the clearing and grubbing construction methodology such as:

- Using the quietest available equipment to complete the works.
- Locating the loudest equipment as far as practicable from sensitive receptors. As an example, felled trees can be transported to mulchers.
- Locating noisy equipment behind objects (e.g. stockpiles, sheds, temporary barriers) to provide shielding.

Figure 6-1 Distribution of predicted L_{Aeq} clearing and grubbing noise levels – Standard hours

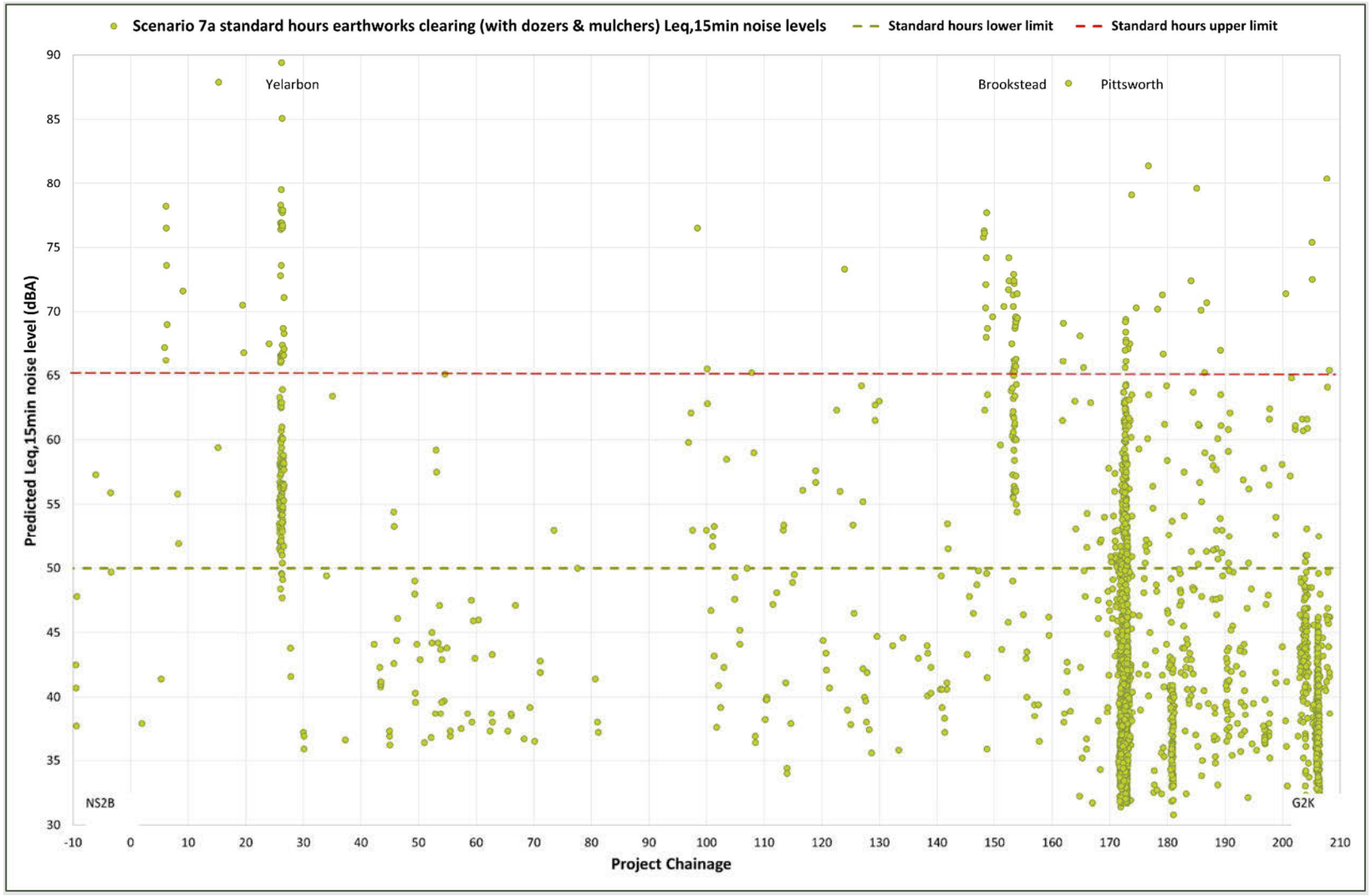


Figure 6-2 Distribution of predicted L_{Aeq} clearing and grubbing noise levels – Non-Standard hours

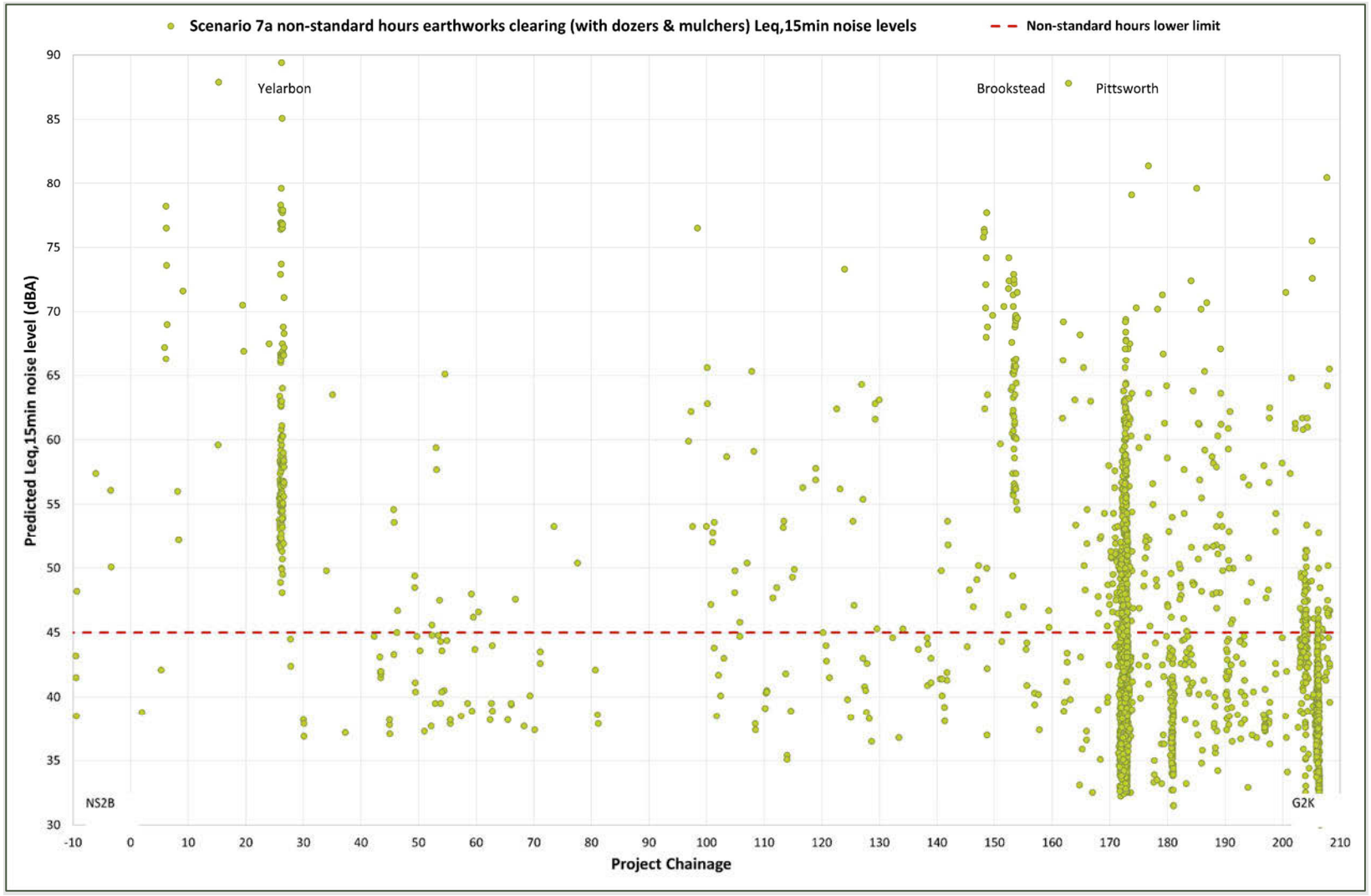


Figure 6-3 Distribution of predicted L_{Aeq} clearing and grubbing (no dozers & mulchers) noise levels – Standard hours

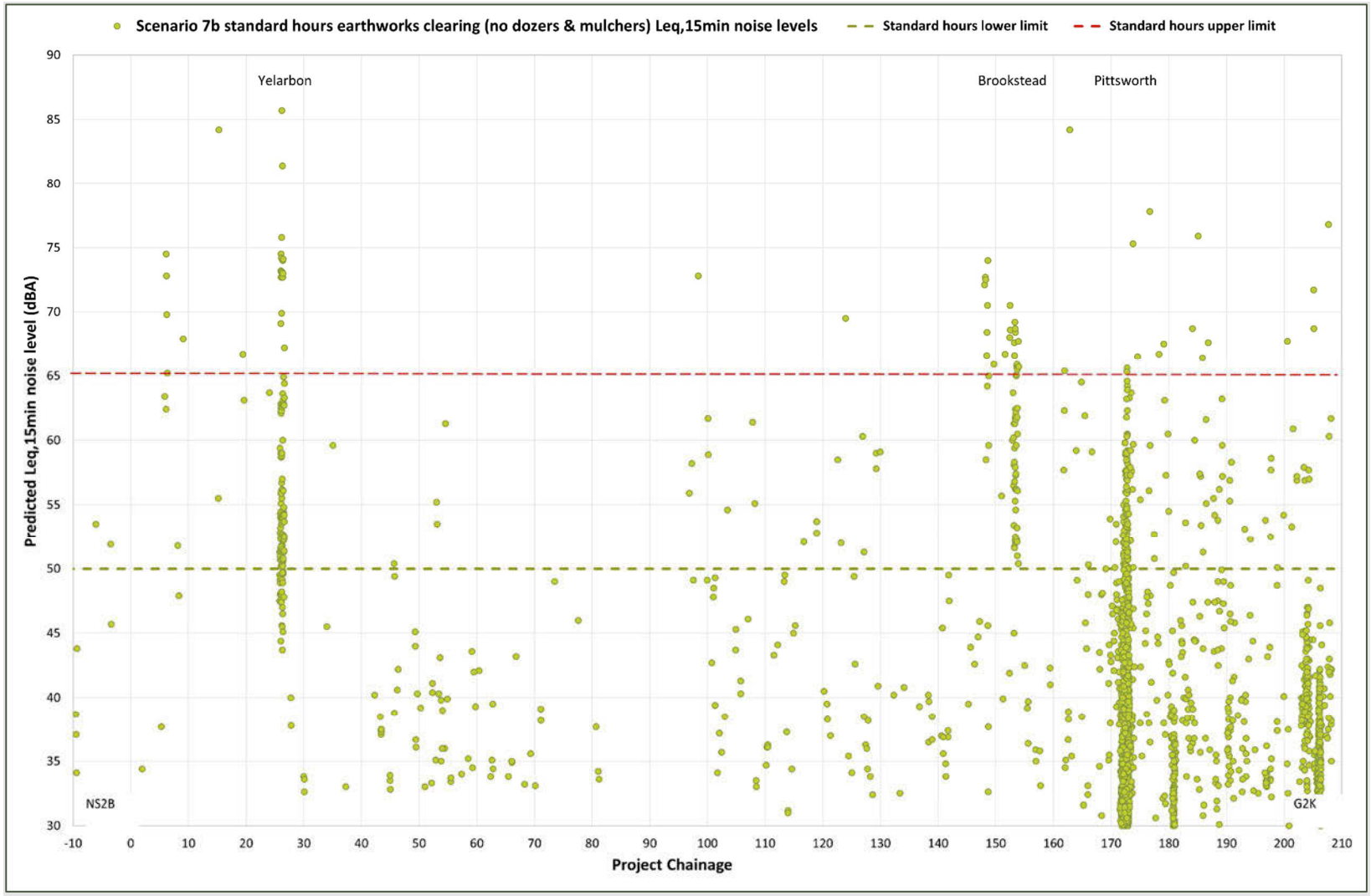
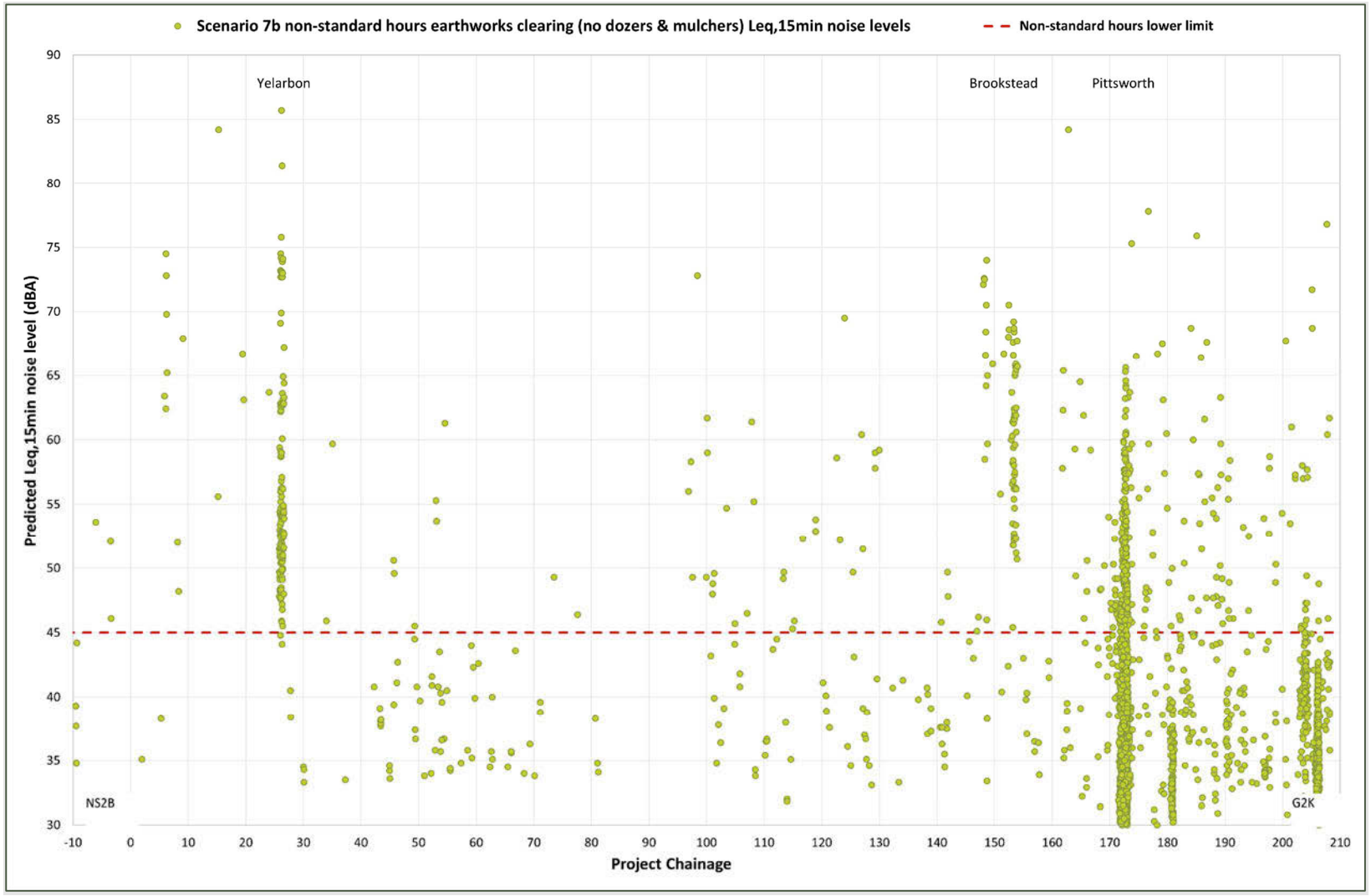


Figure 6-4 Distribution of predicted L_{Aeq} clearing and grubbing (no dozers & mulchers) noise levels – Non-Standard hours



6.1.1.8 Scenario 8 – earthworks (cut and fill)

The cut and fill stages of earthworks are expected to primarily take place during Standard hours, however, may also be undertaken during Non-Standard daylight hours where compliance with the CoP Vol 2 can be achieved. Regarding the duration of the cut and fill works required for the Project, **Table 6-11** presents a summary the proposed construction program.

Table 6-11 Cut and fill earthworks construction program

Earthworks crew	Activity	Duration (days)
Crew 0 (NSW/QLD Border Ch 30.6 km to B2G Ch 0.0 km)	Cut to fill	2
	Cut to fill to Area 1 (export fill)	7
	Import fill from Area 2	112
	Place and compact general fill	114
	Import structural fill from borrow pits	23
	Import structural fill from quarry	17
	Place structural fill	40
	Cut to spoil	1
Crew 1 (Ch 0.0 to 40.0 km)	Cut to Fill (Ch 0.0 – 40.0)	6
	Import to Fill (from Area 2 Ch 40.0 – 73.1)	196
	Place and compact general fill (Ch 0.0 – 40.0)	93
	Cut to Spoil / Import from Borrow (Ch 0.0 – 40.0)	1
	Import structural fill (from Borrow Pits) (Ch 0.0 – 40.0)	57
	Place structural fill (Ch 0.0 – 40.0)	57
Crew 2 (Ch 40.0 to 73.1 km)	Cut to Fill (Ch 40.0 – 73.1)	213
	Cut to Fill to Earthworks Area 1 (Ch 0.0 – 40.0)	196
	Place and compact general fill (Ch 40.0 – 73.1)	213
	Cut to Spoil / Import from Borrow (Ch 40.0 – 73.1)	47
	Import structural fill (from Borrow Pits) (Ch 40.0 – 73.1)	36
	Place structural fill (Ch 40.0 – 73.1)	36
Crew 3 (Ch 73.1 to 100.0 km)	Cut to Fill (Ch 73.1 to 100.0)	55
	Import to Fill (from Area 4 Ch 100.0 – 148.0)	110
	Place and compact general fill (Ch 73.1 – 100.0)	80
	Cut to Spoil / Import from Borrow (Ch 73.1 – 100.0)	5
	Cut/Import to structural fill (from Borrow Pits) (Ch 73.1 – 100.0)	39
	Place structural fill (Ch 73.1 – 100.0)	39
Crew 4 (Ch 100.0 to 148.0 km)	Cut to fill (Ch 100.0 – 148.0)	165
	Place and compact general fill (Ch 100.0 – 148.0)	165

Earthworks crew	Activity	Duration (days)
	Cut to Fill (Area 3 Ch 73.1 to 100.0)	101
	Cut to Fill (Area 5B Ch 184.0 to 203.0)	57
	Cut to Spoil / Import from Borrow (Ch 100.0 – 148.0)	44
	Import structural fill (From Area 5A cutting 160-184)	50
	Place structural fill (Ch 100.0 – 148.0)	50
Crew 5A (Ch 148.0 to 184.0 km)	Cut to Fill Part 1 (Ch 148.0 – 184.0)	135
	Cut to Fill Part 2 (Ch 148.0 – 184.0)	135
	Cut to Fill to Earthworks Area 5B (Ch 184.0 – 203.0)	162
	Cut to Fill to Earthworks Area 6 (Ch 203.0-207.0)	220
	Place and compact general fill Part 1 (Ch 148.0 – 184.0)	135
	Place and compact general fill Part 2 (Ch 148.0 – 184.0)	135
	Cut to Spoil / Import from Borrow (Ch 148.0 – 184.0)	81
	Import structural fill (Ch 148.0 – 184.0)	40
	Place structural fill (Ch 148.0 – 184.0)	40
Crew 5B (Ch 184.0 to 203.0 km)	Cut to fill (Ch 184.0 – 203.0)	166
	Import to fill (from Area 4)	57
	Import to fill (from Area 5A)	162
	Cut to Fill (Rock) (Ch 184.0 – 203.0)	80
	Place and compact general fill (Ch 184.0 – 203.0)	300
	Cut to Spoil / Import from Borrow (Ch 184.0 – 203.0)	35
	Cut to structural fill (from this area) (Ch 184.0 – 203.0)	20
	Place structural fill (Ch 184.0 – 203.0)	20
Crew 6 (Ch 203.0 to 207.0 km)	Import to Fill (from Area 5A Ch 148.0 – 184.0)	220
	Cut to fill (Ch 203.0 – 207.0)	30
	Cut to Spoil / Import from Borrow (Ch 203.0 – 207.0)	3
	Place and compact general fill (Ch 203.0 – 207.0)	207
	Import structural fill (from area 5B Ch 184.0-203.0)	10
	Place structural fill (Ch 203.0 – 207.0)	10

Predicted cut and fill earthworks noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Figure 6-5** for Standard hours work and **Figure 6-6** for Non-Standard hours work. Where construction works are required in a particular area of the Project for greater than six months, a lower limit of 45 dBA $L_{Aeq,adj,15min}$ should be applied to the assessment of Standard hours.

The assessment of potential construction noise levels associated with the cut and fill stages of earthworks during Standard hours has identified the following:

- Construction noise levels associated with cut and fill earthworks across the Project are predicted to exceed the Standard hours upper noise limit of 65 dBA $L_{Aeq,adj,15min}$ at 132 sensitive receptors in proximity to the Project. These exceedances generally relate to sensitive receptors within approximately 150 m of the earthworks. Exceedances of up to 26 dBA have been predicted which, by nature of the activity (i.e. relatively mobile equipment such as scrapers and haul trucks) and the degree of exceedance, are very difficult to mitigate to the extent that compliance with the upper noise limit would be achieved. Consequently, it will be necessary to consult directly with all sensitive receptors (i.e. predicted to be exposed to construction noise levels exceeding 65 dBA $L_{Aeq,adj,15min}$), to communicate the extent of the predicted impact, and mitigation and management measures to be applied.
- Cut and fill earthworks noise levels have been predicted for the following educational receptors:
  - Yelarbon State School: up to 62 dBA $L_{Aeq,adj,15min}$, which complies with external noise limit of 71 dBA.
  - Brookstead State School up to 71 dBA $L_{Aeq,adj,15min}$, which complies with external noise limit of 73 dBA.
- During cut and fill earthworks, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit has been predicted for:
  - Yelarbon Soldiers Memorial Hall (up to 78 dBA), Pampas Memorial Hall (up to 78 dBA), Pampas Rural Fire Shed (up to 79 dBA), Brookstead Hall (up to 61 dBA) and the Harvest New Life Church (up to 68 dBA). The predicted exceedances are dominated by the operation of the D11 and D10 dozers which should be avoided from operating in proximity to these sensitive receptors whilst in use.

The assessment of potential worst-case construction noise levels associated with the cut and fill stages of the earthworks during Non-Standard hours has identified the following:

- Construction noise levels associated with the proposed cut and fill earthworks are predicted to significantly exceed the 45 dBA $L_{Aeq,adj,15min}$ Non-Standard hours noise limit numerous sensitive receptors. On this basis, areas of the Project would not be suitable for Non-Standard hours cut and fill earthworks without additional mitigation in measures in place. Based on this worst-case assessment, even with all reasonable and practicable mitigation measures in place, residual cut and fill noise levels may still exceed the noise limit at most sensitive receptors in proximity to the works. It is recommended that further analysis of this work scenario is conducted during detailed design by the construction contractor to identify opportunities to avoid and minimise impact.
- In addition to the stakeholder consultation discussed above, the following measures would likely be required:
  - Provision of respite periods or preferred noise intensive periods, which is particularly important noting the extended durations of the cut and fill activities as summarised in **Table 6-11**.
  - Consideration of the following where the application of all reasonable and practicable mitigation measures (including respite periods) is deemed to be ineffective:
    - Property treatments where longer-term impacts (i.e. >6 months) associated with the Project are identified.

- Temporary (short-term) alternative accommodation for the duration of impact.

Figure 6-5 Distribution of predicted L_{Aeq} cut and fill noise levels – Standard hours

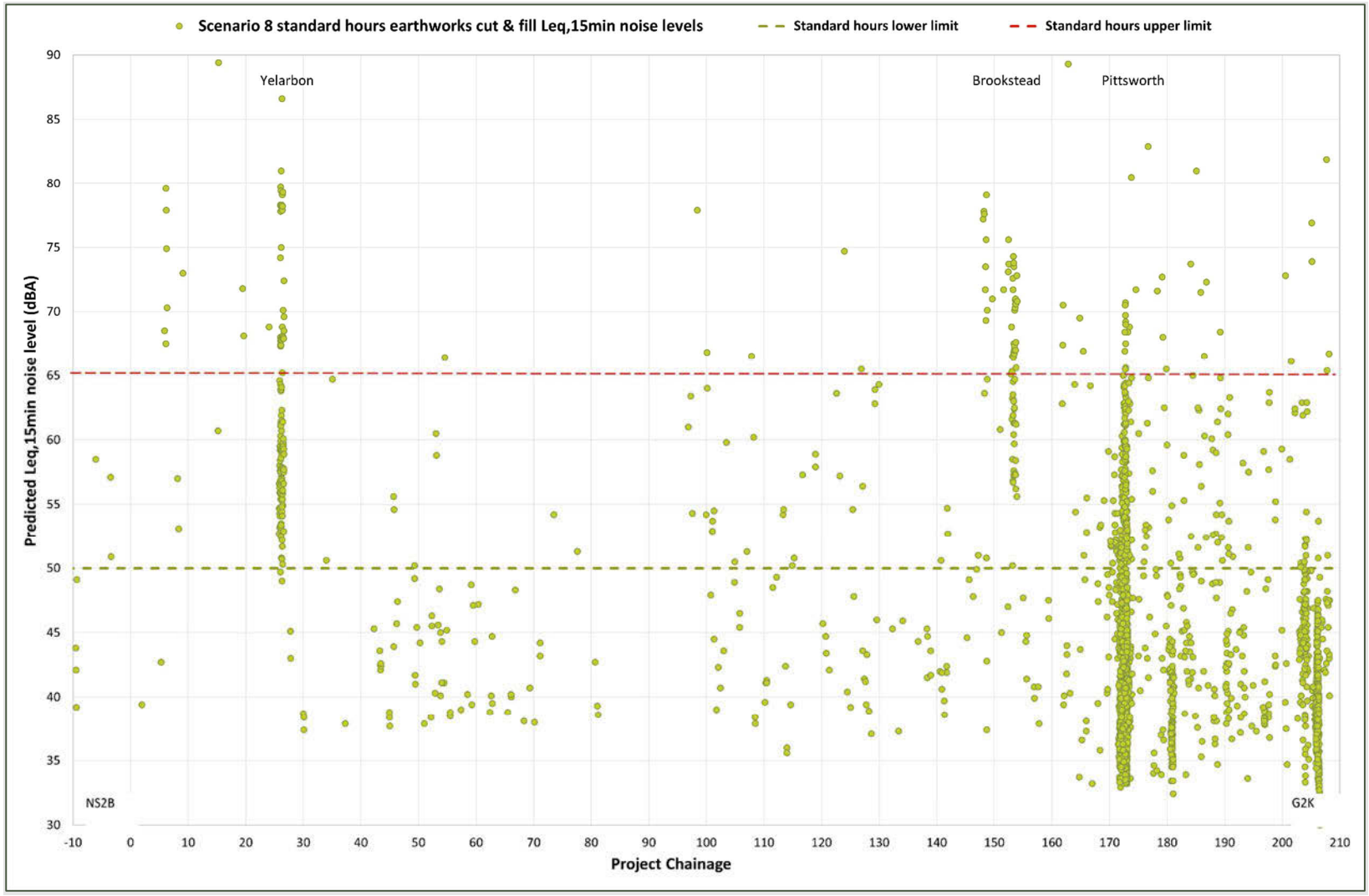
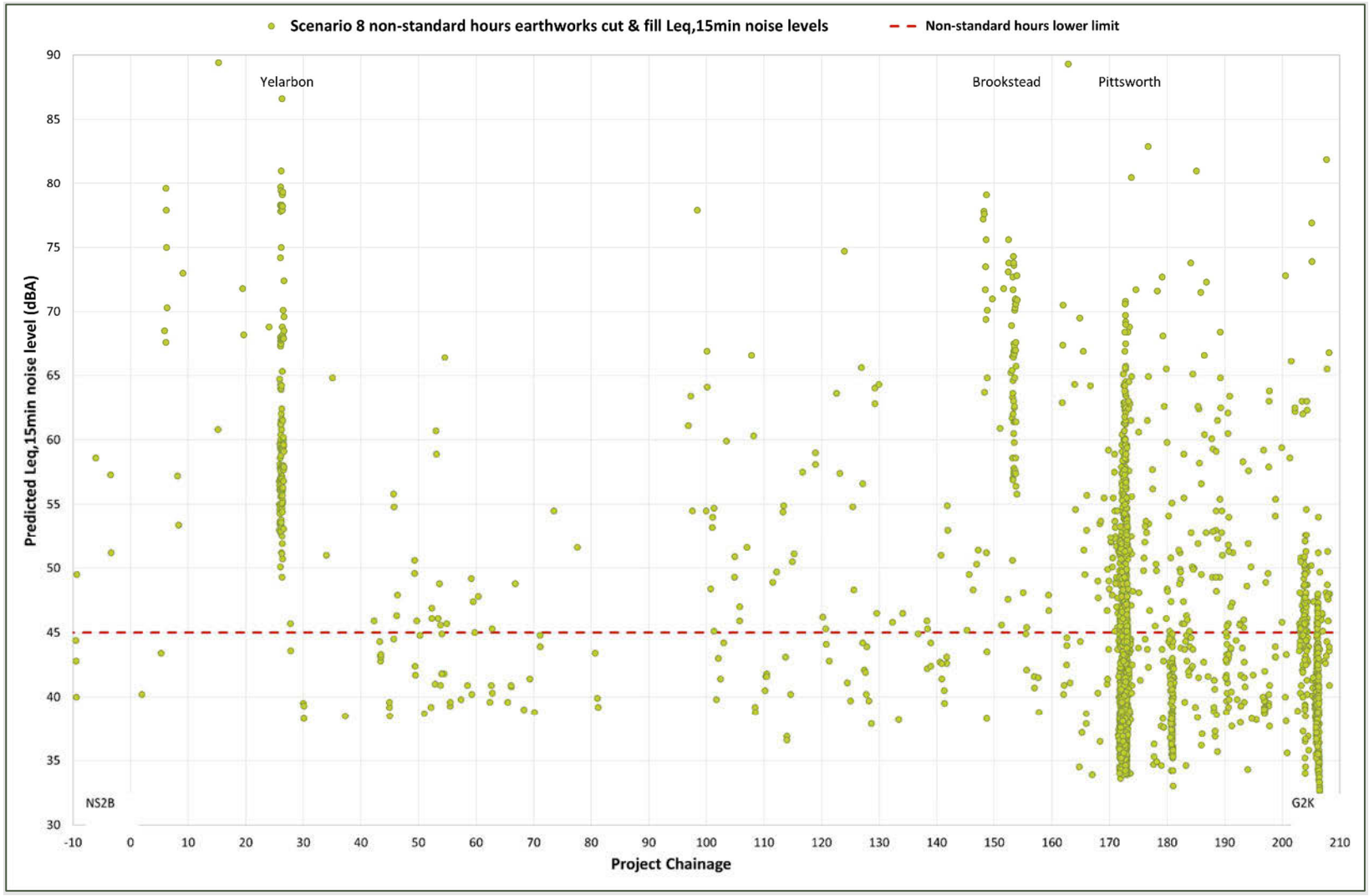


Figure 6-6 Distribution of predicted L_{Aeq} cut and fill noise levels – Non-Standard hours



6.1.1.9 Scenario 9 – earthworks (blasting preparation)

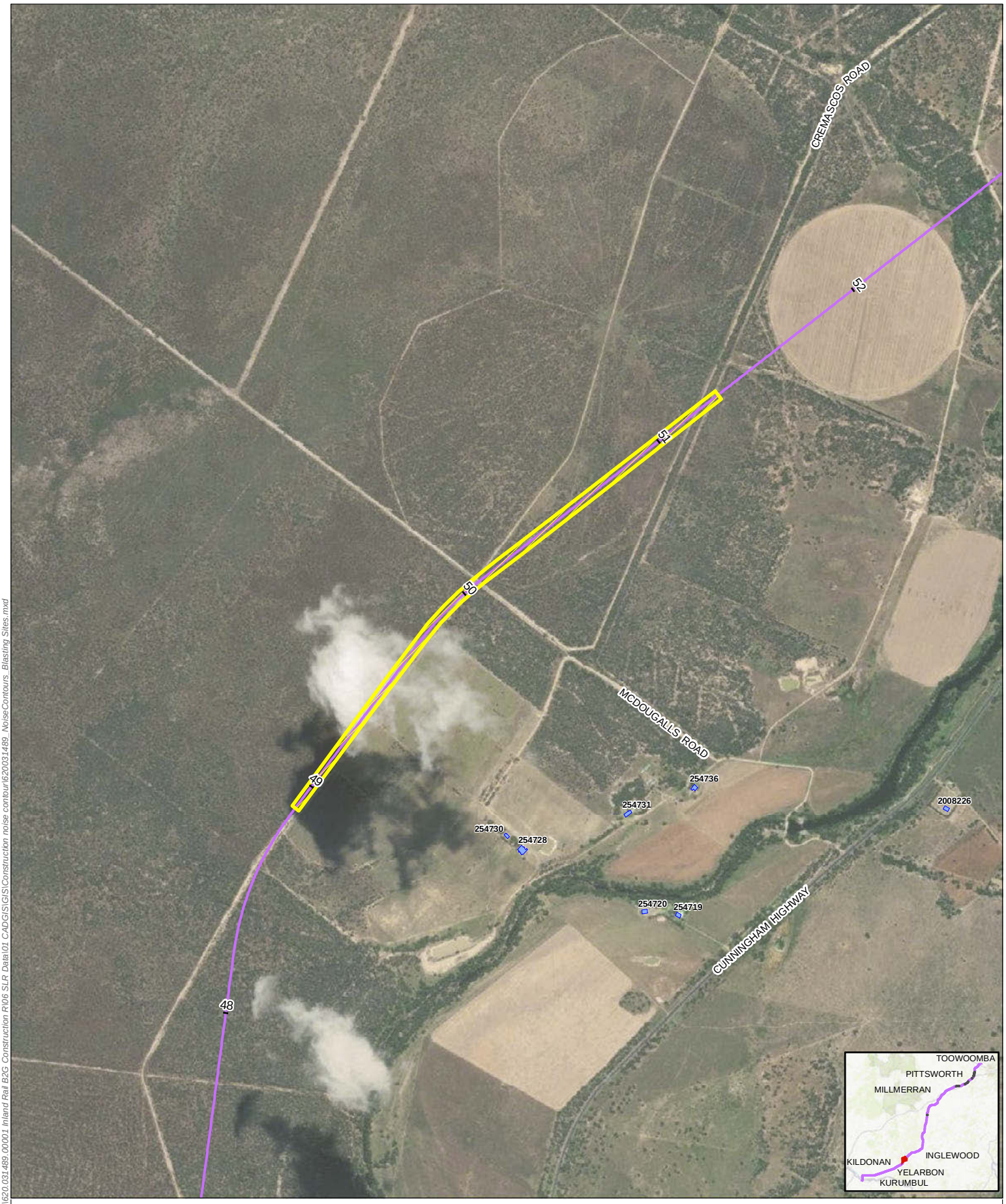
Due to the existence of potentially non-rippable rock along sections of the Project alignment (listed below and shown in **Figure 6-7**), drilling (and blasting) may be required is subject to further geotechnical investigation.

- Ch 48.9 to 51.3 km
- Ch 114.5 to 114.7 km
- Ch 165.3 to 168.8 km
- Ch 176.1 to 176.6 km
- Ch 178.8 to 180.5 km
- Ch 186.5 to 186.9 km
- Ch 190.2 to 191.6 km
- Ch 193.5 to 194.6 km

Where required, the preparation works prior to blasting are expected to primarily take place during Standard hours, however, may also be undertaken during Non-Standard hours where compliance with the CoP Vol 2 can be demonstrated. Predicted blasting preparation noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Figure 6-8** for Standard hours work and **Figure 6-9** for Non-Standard hours work for all sensitive receptors. The assessment of potential blasting preparation construction noise levels during Standard and Non-Standard hours has identified the following:

- Noise levels at most sensitive receptors surrounding the potential blasting sites are predicted to comply with the Standard hours lower noise limit of 50 dBA $L_{Aeq,adj,15min}$ with 22 sensitive receptors predicted to exceed the lower noise limit.
- No noise limit exceedances predicted from the Ch 48.9 to 51.3 km and Ch 114.5 to 114.7 km sites.
- The noise level at one sensitive receptor (i.e. 319208) is predicted to exceed the 65 dBA $L_{Aeq,adj,15min}$ upper noise limit by a marginal 3 dB, however the receptor building is located within an industrial yard and therefore may not be sensitive to noise particularly if the activities occurring within the yard are themselves noise intensive. Further consultation is recommended with the property owner to ascertain the potential for noise impacts.
- Non-Standard hours blasting preparation works are predicted to exceed the 45 dBA $L_{Aeq,adj,15min}$ noise limit at 51 sensitive receptors with the highest noise level of 68 dBA $L_{Aeq,adj,15min}$ predicted at sensitive receptor 319208. No exceedances were predicted from blasting preparation works at the Ch 114.5 to 114.7 km site. Two sensitive receptors close to the Ch 48.9 to 51.3 km site were predicted to marginally (i.e. by up to 2 dB) exceed the noise limit.
- Blasting preparation noise levels are predicted to comply with the respective criteria at all community, educational, medical and emergency services receptors.



100 m

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:20,000 at A4
Project Number:	620.031489
Date:	04-Mar-2024
Drawn by:	JG

SLR

B2G Alignment

Blasting Site

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

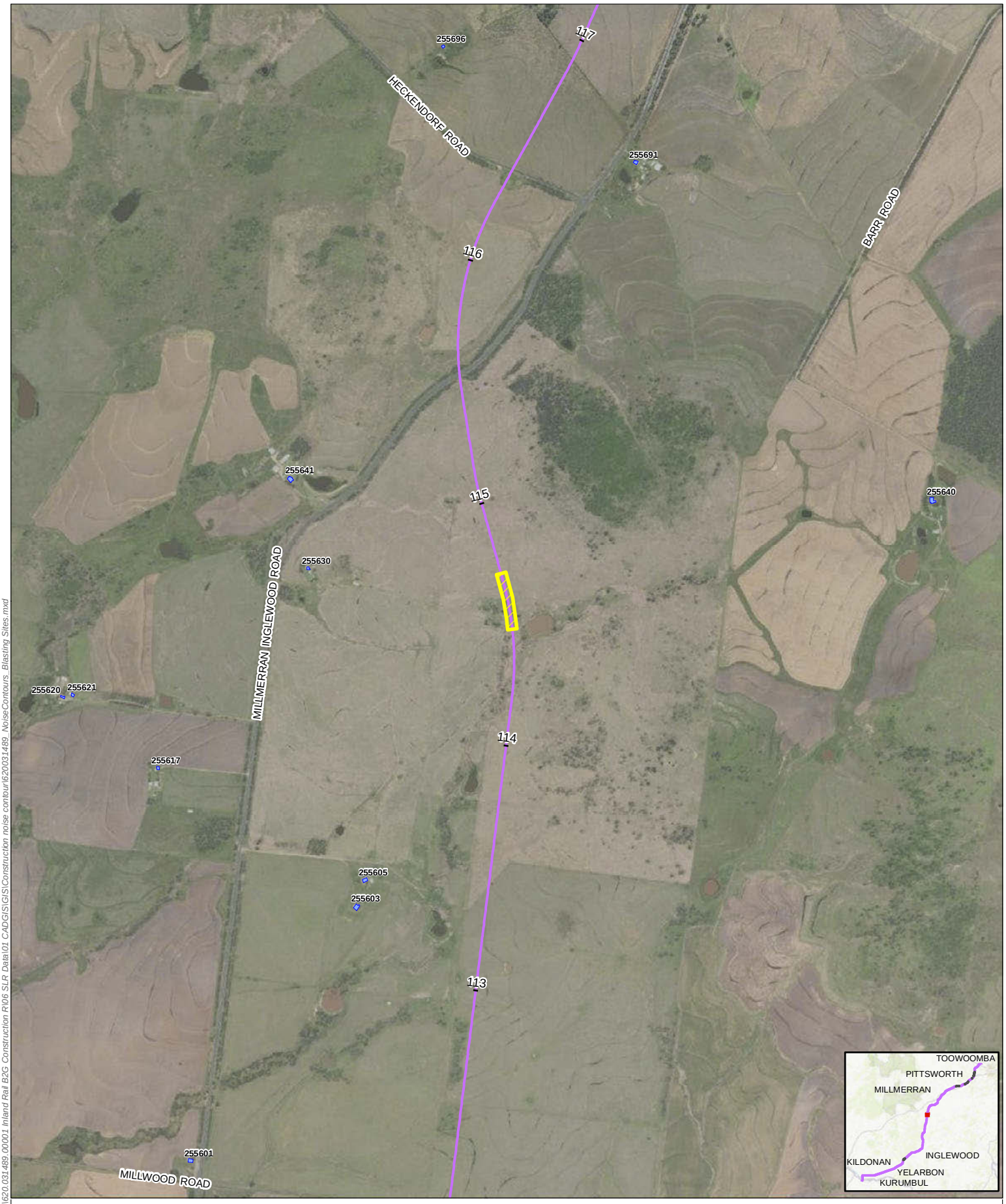
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Potential Blasting Sites

FIGURE 6-7 MAP 1 OF 8

\\au.slr.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Blasting Sites.mxd



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Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:20,000 at A4
Project Number:	620.031489
Date:	04-Mar-2024
Drawn by:	JG

B2G Alignment

Blasting Site

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Potential Blasting Sites

FIGURE 6-7 MAP 2 OF 8

\\au.slr.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Blasting Sites.mxd

100 m

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:20,000 at A4
Project Number:	620.031489
Date:	04-Mar-2024
Drawn by:	JG

SLR

B2G Alignment

Blasting Site

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

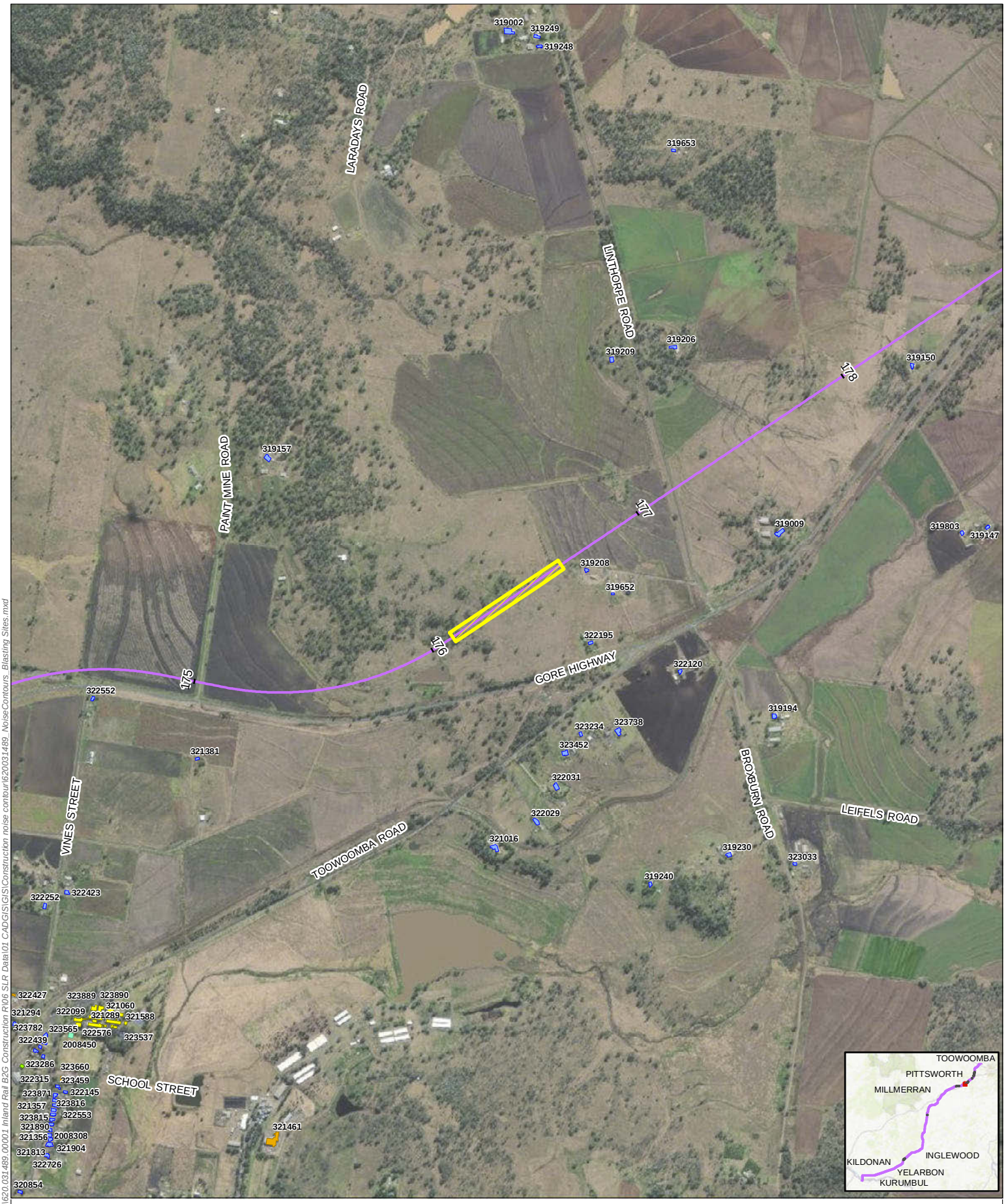
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Potential Blasting Sites

FIGURE 6-7 MAP 3 OF 8

\\au.slr.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Blasting Sites.mxd



100 m

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:20,000 at A4
Project Number:	620.031489
Date:	04-Mar-2024
Drawn by:	JG

SLR

B2G Alignment

Blasting Site

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

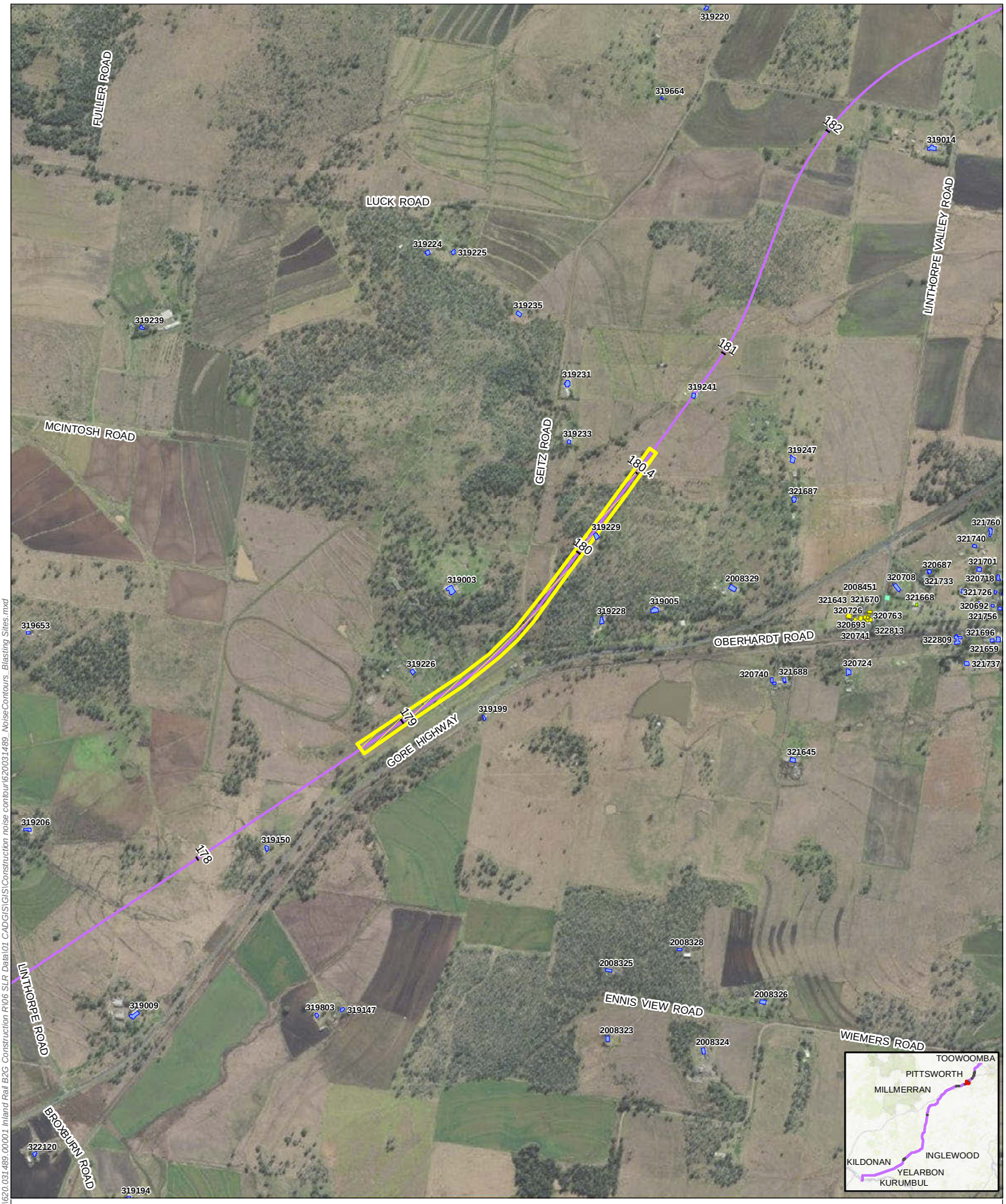
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Potential Blasting Sites

FIGURE 6-7 MAP 4 OF 8

\\au.slr.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Blasting Sites.mxd



100 m

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:20,000 at A4
Project Number:	620.031489
Date:	04-Mar-2024
Drawn by:	JG

SLR

B2G Alignment

Blasting Site

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Potential Blasting Sites

FIGURE 6-7 MAP 5 OF 8

\\au.slr.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Blasting Sites.mxd

100 m

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:20,000 at A4
Project Number:	620.031489
Date:	04-Mar-2024
Drawn by:	JG

SLR

B2G Alignment

Blasting Site

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland

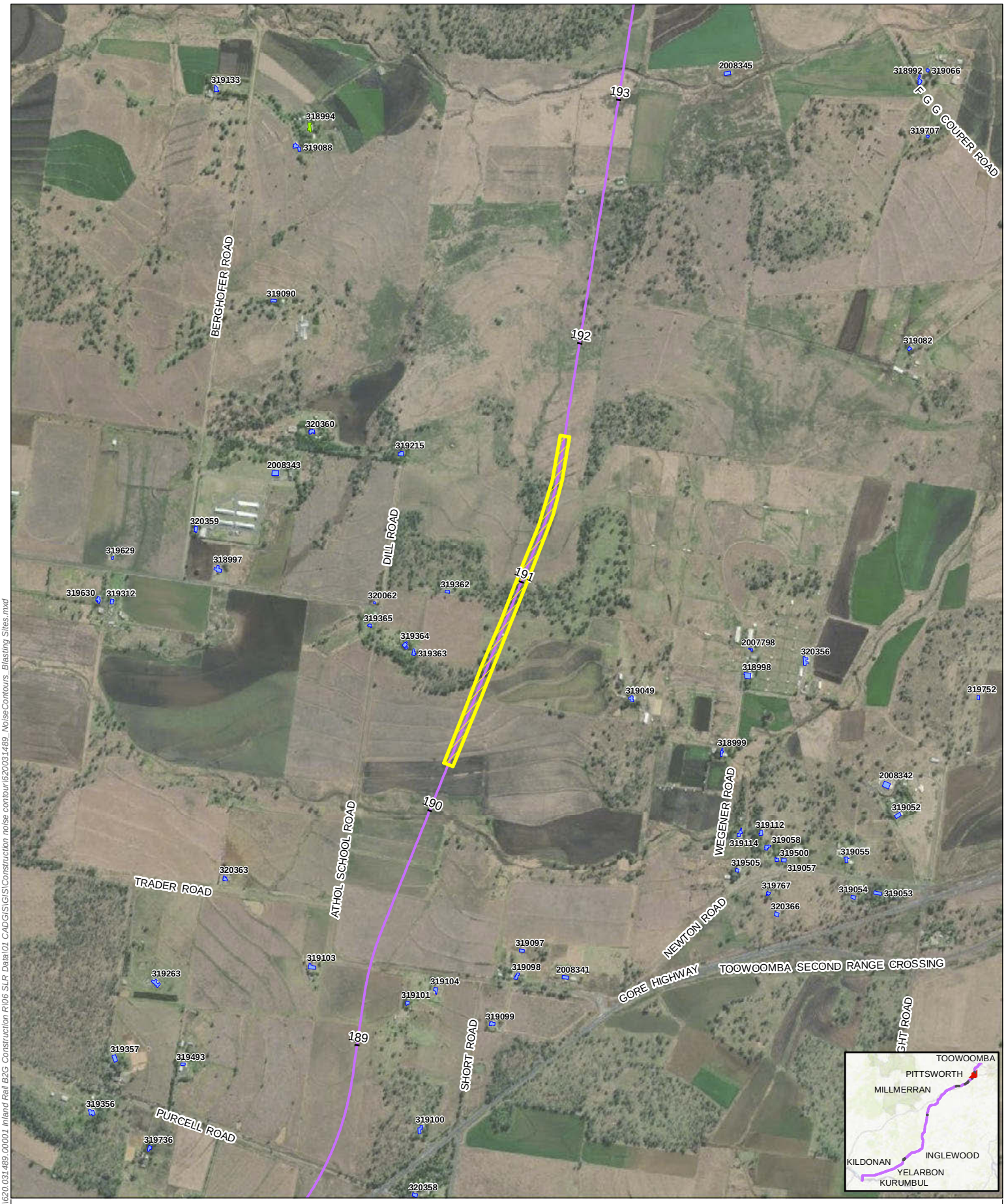
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Potential Blasting Sites

FIGURE 6-7 MAP 6 OF 8

\\au.slr.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Blasting Sites.mxd



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Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:20,000 at A4
Project Number:	620.031489
Date:	04-Mar-2024
Drawn by:	JG

B2G Alignment

Blasting Site

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland

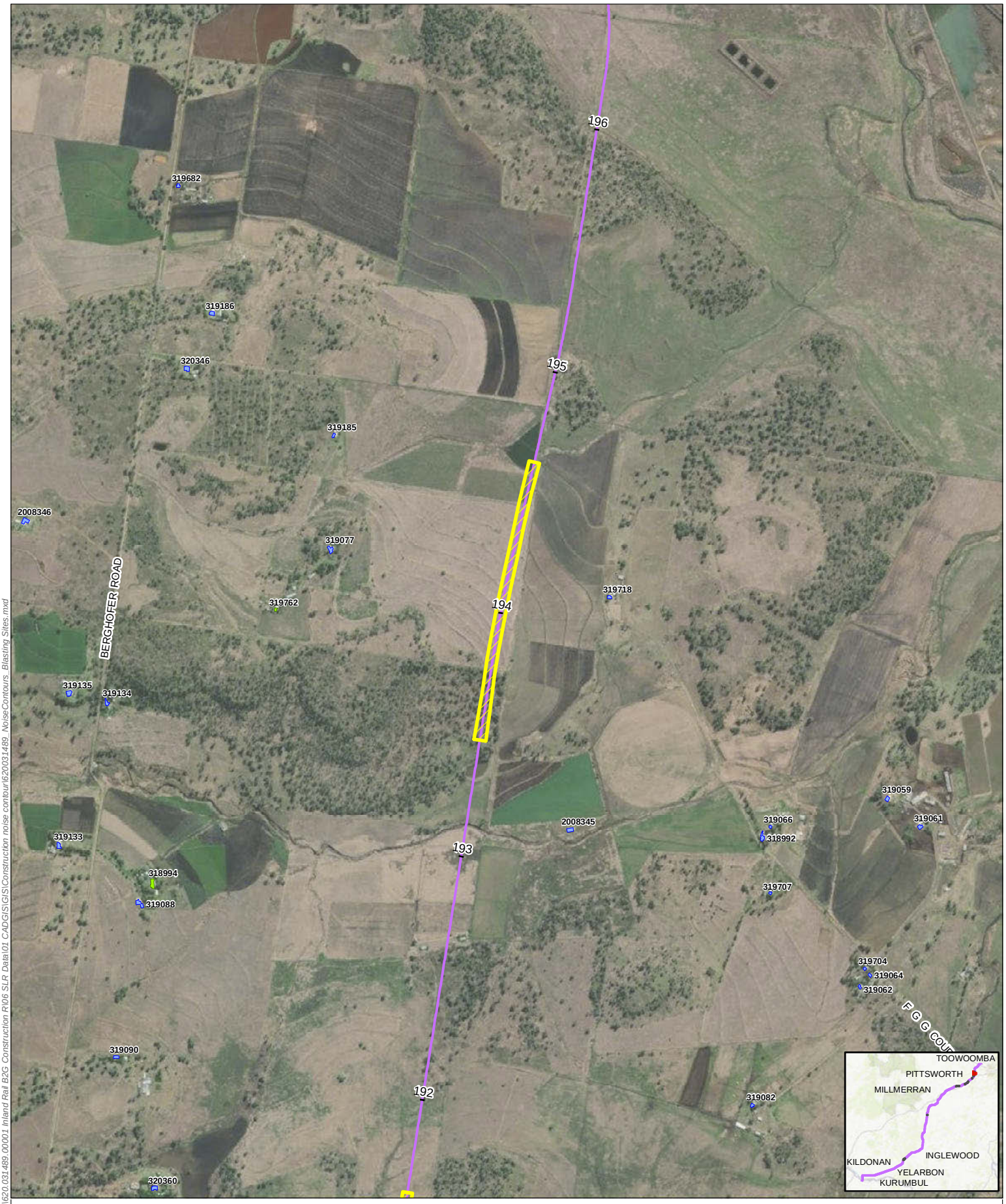
Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G
CONSTRUCTION NOISE CONTOUR ASSESSMENT

Potential Blasting Sites

FIGURE 6-7 MAP 7 OF 8

\\au.slr.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Blasting Sites.mxd



100 m

Coordinate System:	GDA 1994 MGA Zone 56
Scale:	1:20,000 at A4
Project Number:	620.031489
Date:	04-Mar-2024
Drawn by:	JG

B2G Alignment

Blasting Site

Sensitive Receptor Type

Residential

Community

Educational

Commercial

Parkland

Data Sources:
QLD DoR spatial catalogue, ESRI basemap world imagery (Sep 2023)

INLAND RAIL B2G CONSTRUCTION NOISE CONTOUR ASSESSMENT

Potential Blasting Sites

FIGURE 6-7 MAP 8 OF 8

\\au.slr.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CAD\GIS\GIS\Construction noise contour\620031489_NoiseContours_Blasting Sites.mxd

Figure 6-8 Distribution of predicted L_{Aeq} blasting prep noise levels – Standard hours

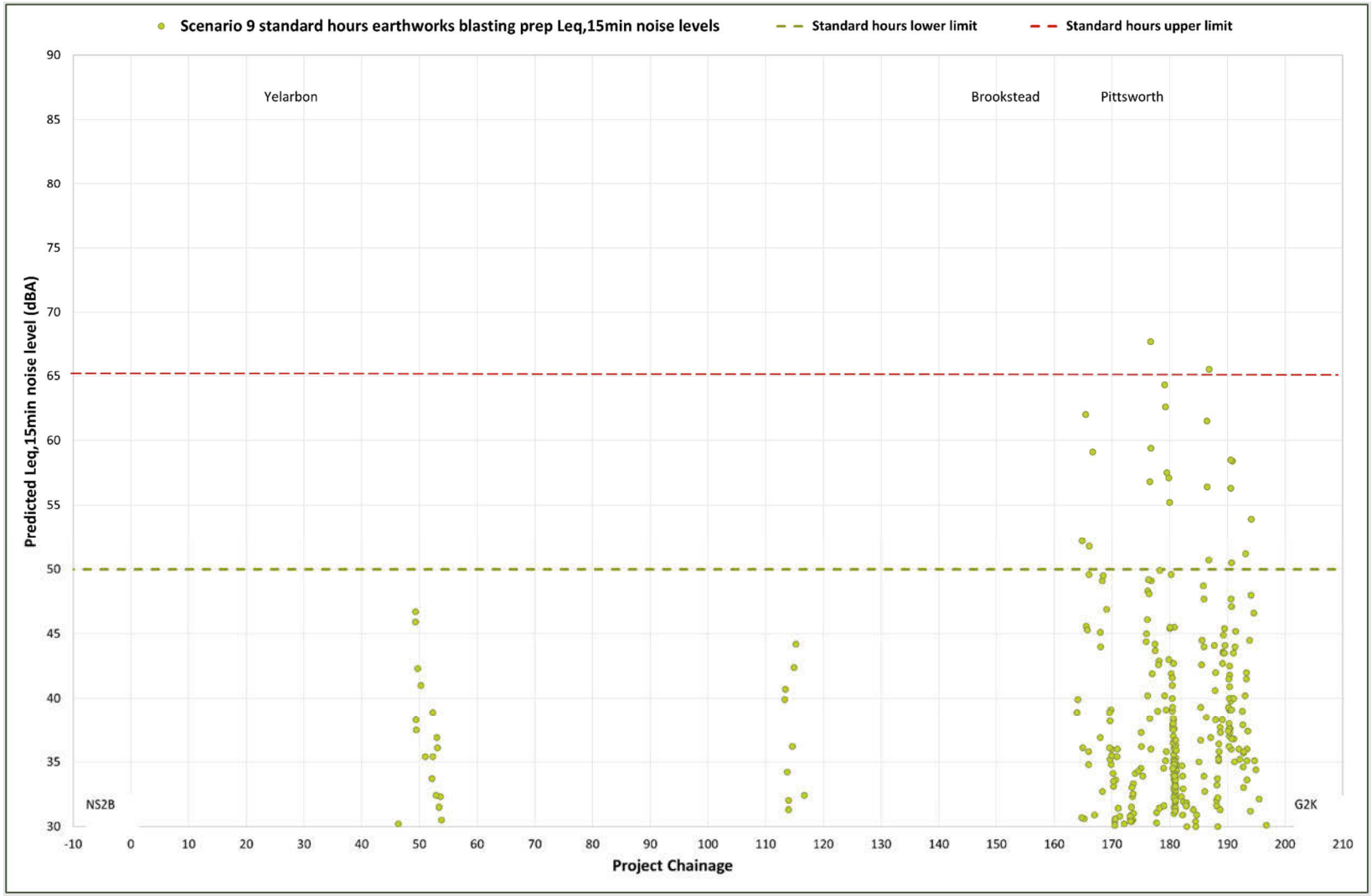
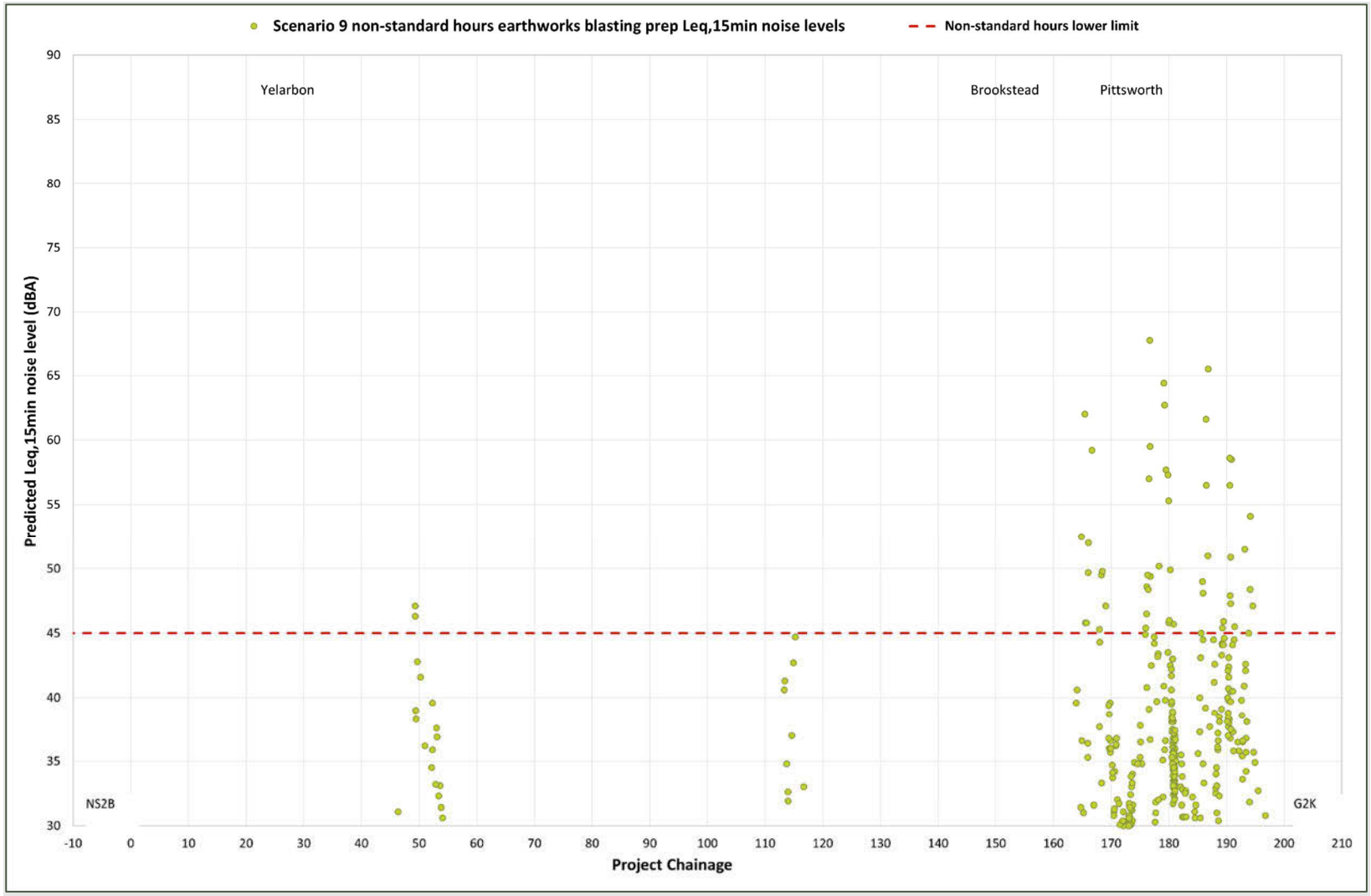


Figure 6-9 Distribution of predicted L_{Aeq} blasting prep noise levels – Non-Standard hours



6.1.1.10 Scenario 10 – drainage

Construction works associated with the installation of cross drainage are required to take place during both Standard and Non-Standard hours. Predicted drainage construction noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Figure 6-10** for Standard hours work and **Figure 6-11** for Non-Standard hours work.

The assessment of potential drainage installation noise levels during Standard hours has identified the following:

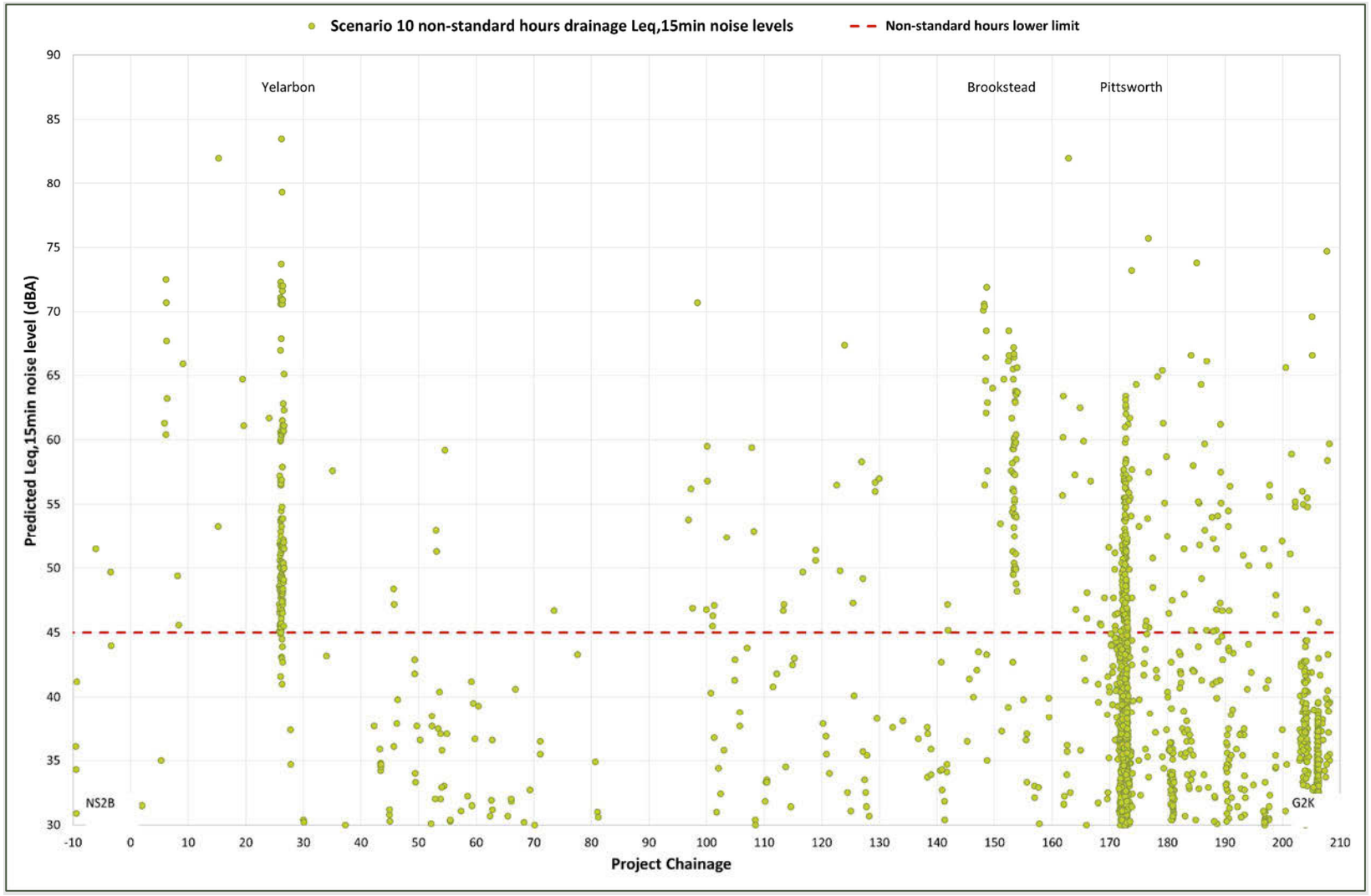
- As shown in **Figure 6-10**, construction noise levels associated with drainage installation works across the Project are predicted to exceed the Standard hours upper noise limit at 49 sensitive receptors who surround the work areas. The majority of the upper limit exceedances occur within the townships of Yelarbon, Brookstead and Pittsworth, with exceedances ranging up to 19 dBA thereby requiring all reasonable and practicable noise mitigation measures to be applied to minimise the predicted impact.
- Like the earthworks assessment, Project areas north of Yelarbon (approximate Ch 30.0 km) to just south of Brookstead (approximate Ch 147.0 km) are predicted to result in only two upper noise limit exceedances at sensitive receptors. Notwithstanding this, exceedance of the Standard hours lower noise limit is predicted for numerous sensitive receptors within this region and therefore all reasonable and practicable noise mitigation measures would be required in accordance with the CoP Vol 2.
- Drainage installation noise levels have been predicted for the following educational receptors:
    - Yelarbon State School: up to 55 dBA $L_{Aeq,adj,15min}$, which complies with external noise limit of 71 dBA.
    - Brookstead State School up to 64 dBA $L_{Aeq,adj,15min}$, which complies with external noise limit of 73 dBA.
- During worst-case drainage installation works, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit has been predicted for:
    - Yelarbon Soldiers Memorial Hall (up to 71 dBA), Pampas Memorial Hall (up to 70 dBA), Brookstead Hall (up to 54 dBA) and the Harvest New Life Church (up to 61 dBA). The predicted exceedances are dominated by concrete trucks and pumps which should be avoided from operating in proximity to these sensitive receptors whilst in use.

The assessment of potential drainage installation construction noise levels during Non-Standard hours has identified Construction noise levels associated with the proposed drainage works are predicted to exceed the 45 dBA $L_{Aeq,adj,15min}$ Non-Standard hours noise limit at 485 sensitive receptors. On this basis, further investigation of potential Non-Standard hours drainage works noise levels would be required during the detailed design stage with all reasonable and practicable mitigation measures applied.

In the context of the broader construction program, drainage installation works would likely be short-term and therefore noise impacts limited in duration at any individual sensitive receptor. The duration and magnitude of potential noise impacts would be clearly communicated during the consultation process.

Figure 6-10 Distribution of predicted L_{Aeq} cross drainage construction noise levels – Standard hours

Figure 6-11 Distribution of predicted L_{Aeq} cross drainage construction noise levels – Non-Standard hours



6.1.1.11 Scenarios 11 to 13 – structures (bridges)

The 34 new bridge structures required for the Project will typically comprise of piled foundations supporting in situ reinforced concrete substructures. Bridge superstructures are likely to be formed from pre-stressed concrete girders (i.e. either slabs or Super-T) with in situ concrete decks to support walkways, guardrails and barriers as appropriate.

The Project does not involve the reinstatement or reconstruction of any existing bridges.

The following subsections include assessment of construction noise levels predicted for the following three key stages of bridge construction for all 34 new bridges required for the project:

- Substructure construction (both bored and driven piling scenarios)
- Pier construction
- Superstructure construction

To assist with identifying the individual bridges and the potential for noise impacts during construction, **Table 6-12** presents a summary of the 34 bridges as well the highest construction noise level predicted at a sensitive receptor surrounding each bridge site. **Bold** noise levels denote an exceedance of the Non-Standard hours noise criterion of 45 dBA $L_{Aeq,adj,15min}$.

Table 6-12 Project bridges and summary of the highest predicted noise levels

Bridge name	Bridge type	Crossing type	Chainage start (km)	Span (m)	Highest predicted $L_{Aeq,adj,15min}$ noise level (dBA)			
					Scenario 11 - Substructure		Scenario 12 - Pier construction	Scenario 13 - Super structure
					Bored piling	Driven piling		
Macintyre River Viaduct	Rail	Waterway	30.6 (NS2B)	535	43	45	39	34
Macintyre Floodplain #1 Rail Bridge	Rail	Waterway	31.4 (NS2B)	140	40	42	36	31
Macintyre Floodplain #2 Rail Bridge	Rail	Waterway	32.2 (NS2B)	546	43	46	40	35
Cunningham Highway Bridge	Road	Inland Rail	25.6	104	**58**	**61**	**56**	**48**
UT1 Macintyre Brook Rail Bridge	Rail	Waterway	52.4	207	**54**	**57**	**51**	44
UT2 Macintyre Brook Rail Bridge	Rail	Waterway	55.4	207	**47**	**50**	44	37
Bybera Road Rail Bridge	Rail	Road	60.5	75	37	40	34	32
Pariagara Creek Rail Bridge	Rail	Waterway	67.2	345	45	**48**	42	36
Cattle Creek Rail Bridge	Rail	Waterway	88.2	138	<30	<30	<30	<30
Native Dog Creek Rail Bridge	Rail	Waterway	93.8	184	<30	<30	<30	<30
Bringalily Creek 1 Rail Bridge	Rail	Waterway	97.4	299	**58**	**61**	**56**	**48**
Bringalily Creek 3 Rail Bridge	Rail	Waterway	100.1	621	**62**	**65**	**61**	**53**
Nicol Creek Rail Bridge	Rail	Waterway	104.3	92	**46**	**49**	43	37
Millmerran Inglewood Road Rail Bridge #2	Rail	Road	115.5	75	**48**	**51**	45	38
Heckendorf Road Bridge	Road	Inland Rail	116.4	59	**53**	**56**	**50**	43
Commodore Peak Road Rail Bridge	Rail	Road	123.9	78	**67**	**70**	**66**	**57**
Millmerran Inglewood Road Rail Bridge #3	Rail	Road	126.9	167	**62**	**65**	**60**	**52**
Back Creek Rail Bridge (new location)	Rail	Waterway	127.9	230	47	**50**	45	37

Bridge name	Bridge type	Crossing type	Chainage start (km)	Span (m)	Highest predicted $L_{Aeq,adj,15min}$ noise level (dBA)			
					Scenario 11 - Substructure		Scenario 12 - Pier construction	Scenario 13 - Super structure
					Bored piling	Driven piling		
Owens-scrub Road Bridge	Road	Inland Rail	138.0	30	**60**	**63**	**58**	**50**
Grasstree Creek Rail Bridge	Rail	Waterway	138.0	1,330	**48**	**51**	45	38
Condamine River South Branch Rail Bridge	Rail	Waterway	141.3	658	45	**48**	42	36
Condamine River Main Branch Rail Bridge	Rail	Waterway	142.6	1,918	42	45	39	34
Condamine River North Branch Rail Bridge	Rail	Waterway	147.8	1,568	**66**	**69**	**65**	**56**
Gore Highway	Road	Inland Rail	153.1	108	**54**	**57**	**52**	44
Yarranlea Road Rail Bridge	Rail	Road	161.2	69	**55**	**58**	**52**	45
Roche Road Rail Bridge	Rail	Road	163.2	121	**59**	**62**	**57**	**49**
Oakey Pittsworth Road Rail Bridge	Rail	Road	170.9	69	**59**	**62**	**57**	**49**
Lochaber Road Rail Bridge	Rail	Road	172.4	75	**54**	**57**	**52**	45
Linthorpe Road	Road	Inland Rail	175.9	66	**54**	**57**	**51**	44
Biddeston Southbrook Road Rail Bridge	Rail	Road	183.5	144	**56**	**59**	**54**	**46**
Athol School Road Bridge	Rail	Road	189.2	25	**61**	**64**	**61**	**52**
Toowoomba Cecil Plains Rd Rail Bridge	Rail	Road	196.1	92	**57**	**60**	**54**	**46**
Westbrook Creek Rail Bridge	Rail	Waterway	197.1	230	**52**	**55**	**49**	42
Dry Creek Rail Bridge	Rail	Waterway	197.9	184	**52**	**55**	**49**	42
Brimblecombe Road Rail Bridge	Rail	Road	198.7	75	**54**	**57**	**51**	44
Warrego Highway Rail Bridge	Rail	Road	203.0	132	**60**	**63**	**58**	**50**

Bridge name	Bridge type	Crossing type	Chainage start (km)	Span (m)	Highest predicted $L_{Aeq,adj,15min}$ noise level (dBA)			
					Scenario 11 - Substructure		Scenario 12 - Pier construction	Scenario 13 - Super structure
					Bored piling	Driven piling		
Chamberlain Road Rail Bridge	Rail	Road	204.4	115	**52**	**55**	**49**	42

Scenario 11 – substructure construction

Substructure works associated with the construction of the Project bridges are required to take place during both Standard and Non-Standard hours as per the guidance provided in **Section 2.2**. Predicted substructure construction noise levels, including bored piling and driven piling scenarios, are tabulated in **Appendix C** for all noise sensitive receptors. Noise contour maps are also presented in **Appendix D**.

The distribution of predicted L_{Aeq} bridge substructure construction noise levels at all sensitive receptors are summarised in:

- **Figure 6-12** for Standard hours work with bored piling.
- **Figure 6-13** for Non-Standard hours work with bored piling.
- **Figure 6-14** for Standard hours work with driven piling.
- **Figure 6-15** for Non-Standard hours work with driven piling.

The assessment of potential construction noise levels associated with bridge substructure construction works during Standard hours has identified the following:

- For substructure construction works involving bored piling rigs:
  - **Figure 6-12** indicates that three sensitive receptors are predicted to experience construction noise levels that marginally exceed the 65 dBA $L_{Aeq,adj,15min}$ upper noise limit (i.e. by up to 3 dBA).
  - As indicated on the construction noise contour maps in **Appendix D**, 150 sensitive receptors are predicted to experience construction noise levels that exceed the lower limit but comply with the upper noise limit. All reasonable and practicable mitigation measures would apply to minimise the predicted noise impact at these sensitive receptors in accordance with the CoP Vol 2.
- For substructure construction works involving driven piling rigs:
  - **Figure 6-14** indicates that three sensitive receptors are predicted to experience construction noise levels that exceed the 65 dBA $L_{Aeq,adj,15min}$ upper noise limit (i.e. by up to 6 dBA).
  - 238 sensitive receptors are predicted to experience construction noise levels that exceed the lower limit but comply with the upper noise limit. Exceedance of the lower noise limit requires all reasonable and practicable mitigation measures to be applied.
- During worst-case bridge substructure construction, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit has been predicted for:
  - Yelarbon Soldiers Memorial Hall (up to 54 dBA), Brookstead Hall (up to 53 dBA) and the Harvest New Life Church (up to 55 dBA). The predicted exceedances are dominated by the operation of the piling rig. Subject to the detailed design requirements, the piling rig should be selected (i.e. based on its SWL) to achieve compliance with the noise limit at these sensitive receptors.
- Driven piling noise levels have been predicted for the following educational receptors:
  - Yelarbon State School: up to 51 dBA $L_{Aeq,adj,15min}$, which complies with external noise limit of 71 dBA.
  - Brookstead State School up to 53 dBA $L_{Aeq,adj,15min}$, which complies with external noise limit of 73 dBA.

The assessment of potential construction noise levels associated with bridge construction works during Non-Standard hours has identified the following:

- As evident in Figure 6-13 and Figure 6-15, bridge substructure construction noise levels are predicted to exceed the Non-Standard hours noise limit at a significant number of sensitive receptors (i.e. 370 with bored piling and 537 with driven piling). The majority of the upper limit exceedances occur within the townships of Yelarbon and Pittsworth, with exceedances ranging up to 26 dBA thereby requiring all reasonable and practicable noise mitigation measures to be applied to minimise the predicted impact.
- As indicated in Table 6-12, six out of the 34 bridge construction sites are predicted to comply with the Non-Standard hours noise limit of 45 dBA $L_{Aeq,adj,15min}$ and therefore substructure construction works involving bored piling could proceed without the need for further noise mitigation measures. This number reduces to four (out of the 34 sites) if driven piling is required.

As a result of the predicted Standard and Non-Standard noise limit exceedances and in accordance with the CoP Vol 2, substructure construction works consistent with the modelled scenarios are to utilise reasonable and practicable noise mitigation and management measures. Such measures could include:

- Conducting extensive community consultation with all sensitive receptors predicted to exceed the noise limits in advance of the works occurring at each bridge site. It is important that the discussion of reasonable and practicable mitigation measures with affected parties consider the overall duration of bridge construction works and exposure of noise levels at any individual receptor.
- Use of the quietest available equipment to undertake the works particularly during Non-Standard hours works.
- Locating of noisy equipment to maximise shielding in the direction of sensitive receptors (e.g. adjacent to bridge abutments or embankments, within cuttings etc).
- Acoustic screening around the driven piling rigs. Commercially available acoustic screens can provide as much as 15 dBA reduction in noise emission.

Figure 6-12 Distribution of predicted L_{Aeq} substructure with bored piling noise levels – Standard hours

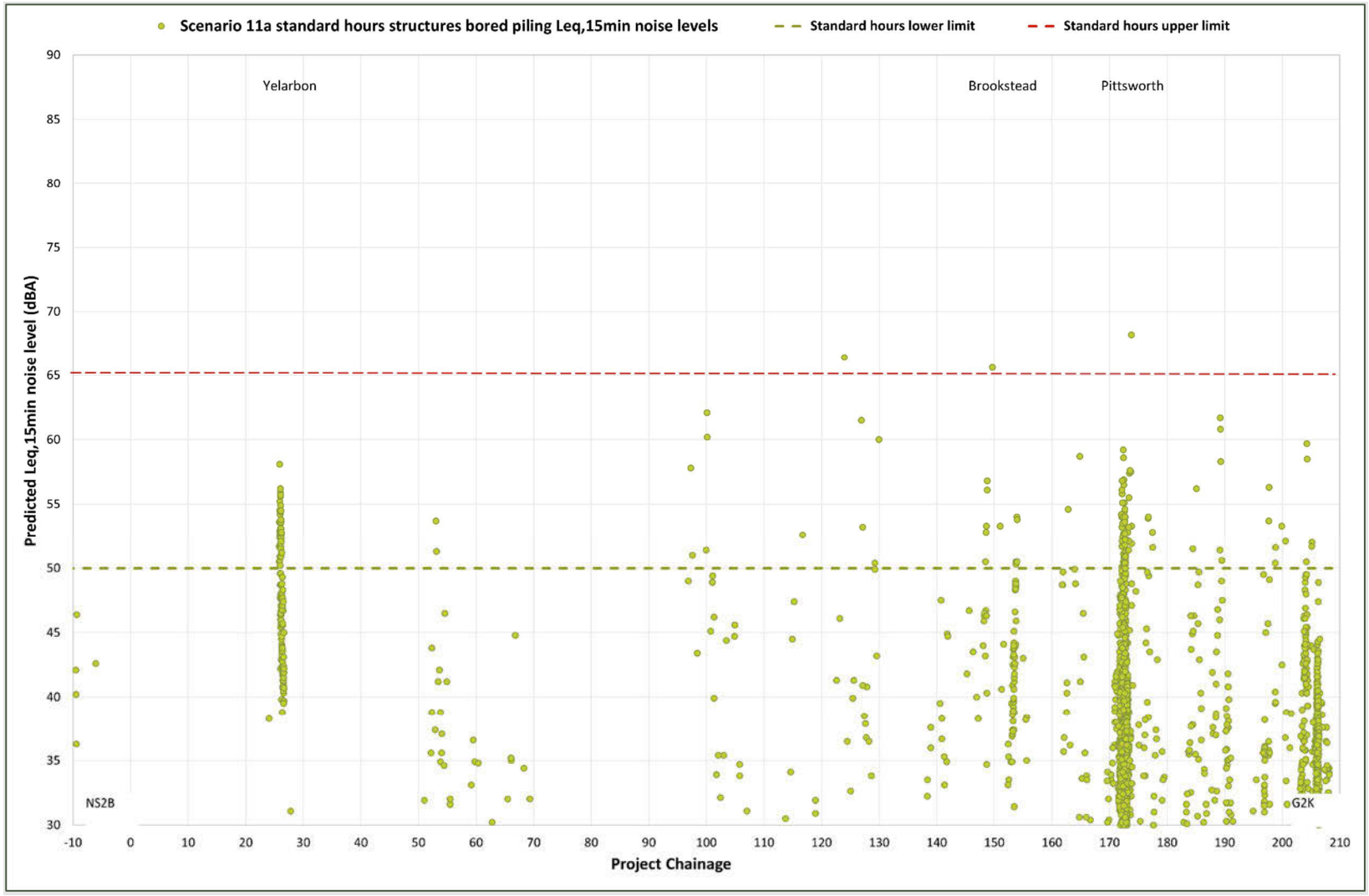


Figure 6-13 Distribution of predicted L_{Aeq} substructure with bored piling noise levels – Non-Standard hours

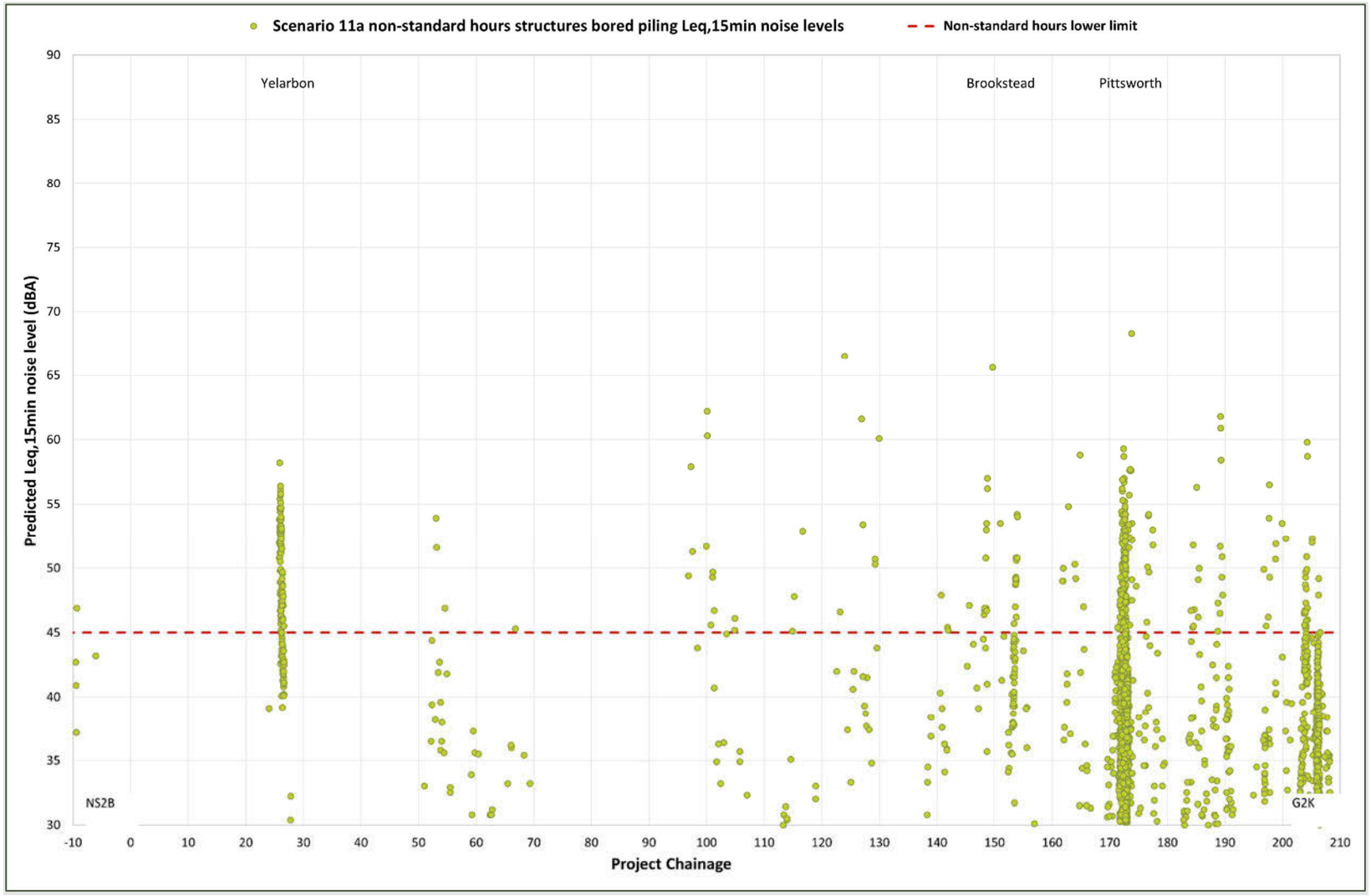
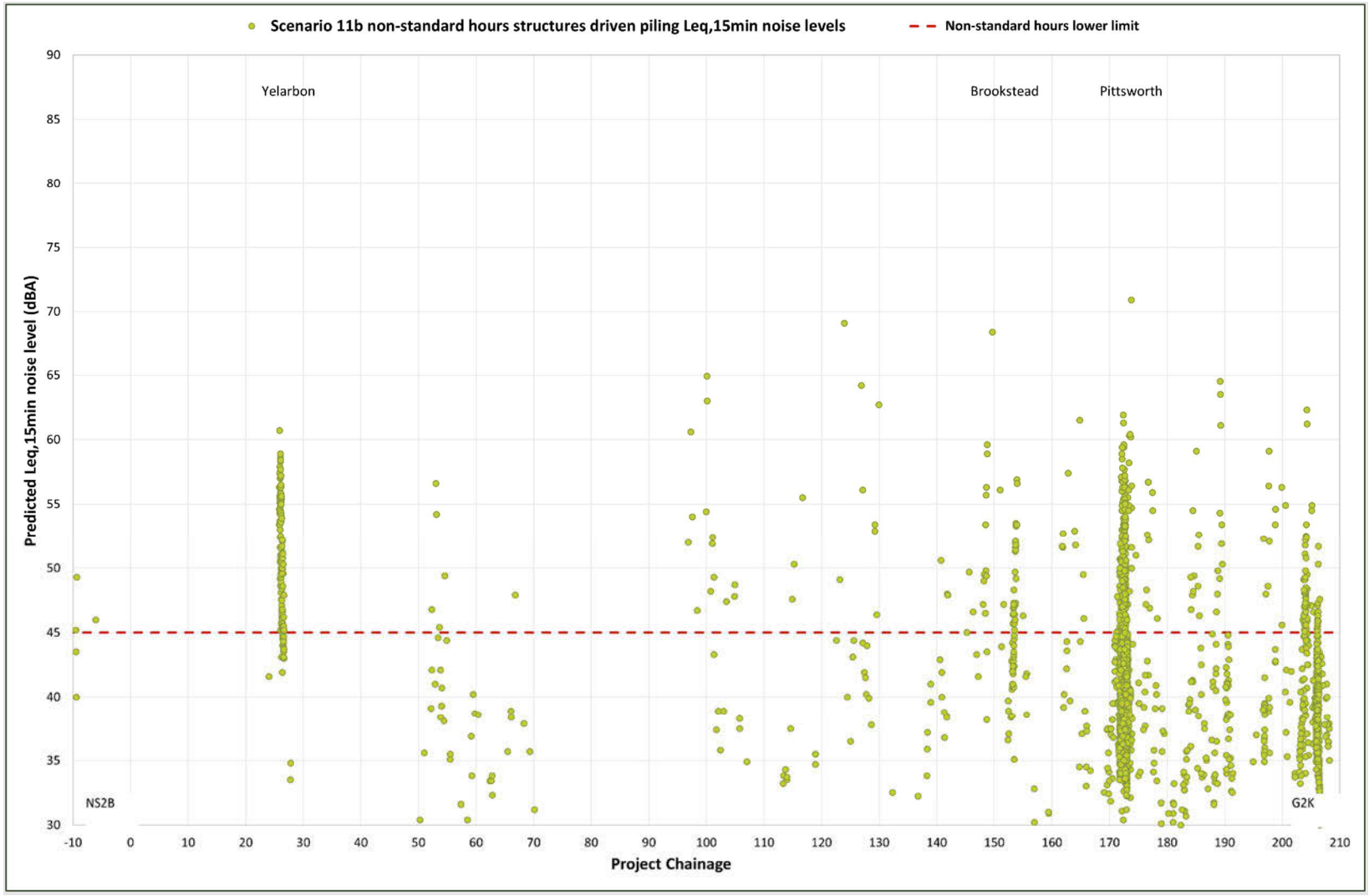


Figure 6-14 Distribution of predicted L_{Aeq} substructure with driven piling noise levels – Standard hours

Figure 6-15 Distribution of predicted L_{Aeq} substructure with driven piling noise levels – Non-Standard hours



Scenario 12 – pier construction

Construction of bridge piers for the Project are required to take place during both Standard and Non-Standard hours as per the guidance provided in **Section 2.2**, and in particular the following that is typically required during bridge pier construction:

- Delivery of 'in time' concrete, steel, and other construction materials and components delivered to site by heavy vehicles.
- Movements of heavy plant and materials.
- Transport, assembly, or decommissioning of oversized plant, equipment, components, or structures.

Predicted bridge pier construction noise levels are tabulated in **Appendix C** for all noise sensitive receptors. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Figure 6-16** for Standard hours work and **Figure 6-17** for Non-Standard hours work.

The assessment of predicted bridge pier construction noise levels has indicated the following:

- For Standard hours construction works:
  - The highest predicted construction noise level of 66 dBA $L_{Aeq,adj,15min}$, which is a marginal 1 dBA exceedance of the upper noise limit. The predicted exceedance is caused by the operation of the concrete saw with noise levels reducing by approximately 5 dB when the concrete saw is not in use.
  - Two sensitive receptors predicted to exceed the upper noise limit during worst-case pier construction activities including concrete saw cutting.
  - 75 sensitive receptors predicted to exceed the lower limit but comply with the upper noise limit. Without the operation of the concrete saw, the number of exceedances reduces to 19.
  - Pier construction noise levels are predicted to comply with the respective criteria at all community, educational, medical and emergency services receptors.
- For Non-Standard hours construction works:
  - The highest predicted construction noise level of 66 dBA $L_{Aeq,adj,15min}$, which exceeds the Non-Standard hours limit of 45 dBA $L_{Aeq,adj,15min}$ by 21 dBA.
  - 242 sensitive receptors predicted to exceed the noise limit.
  - As indicated in **Table 6-12**, six out of the 34 bridge construction sites are predicted to comply with the Non-Standard hours noise limit and therefore bridge pier construction works could proceed without the need for further noise mitigation measures.

The noise mitigation measures presented above for the substructure construction phase would be expected to apply to the bridge pier construction stage of the work.

Figure 6-16 Distribution of predicted L_{Aeq} bridge pier construction noise levels – Standard hours

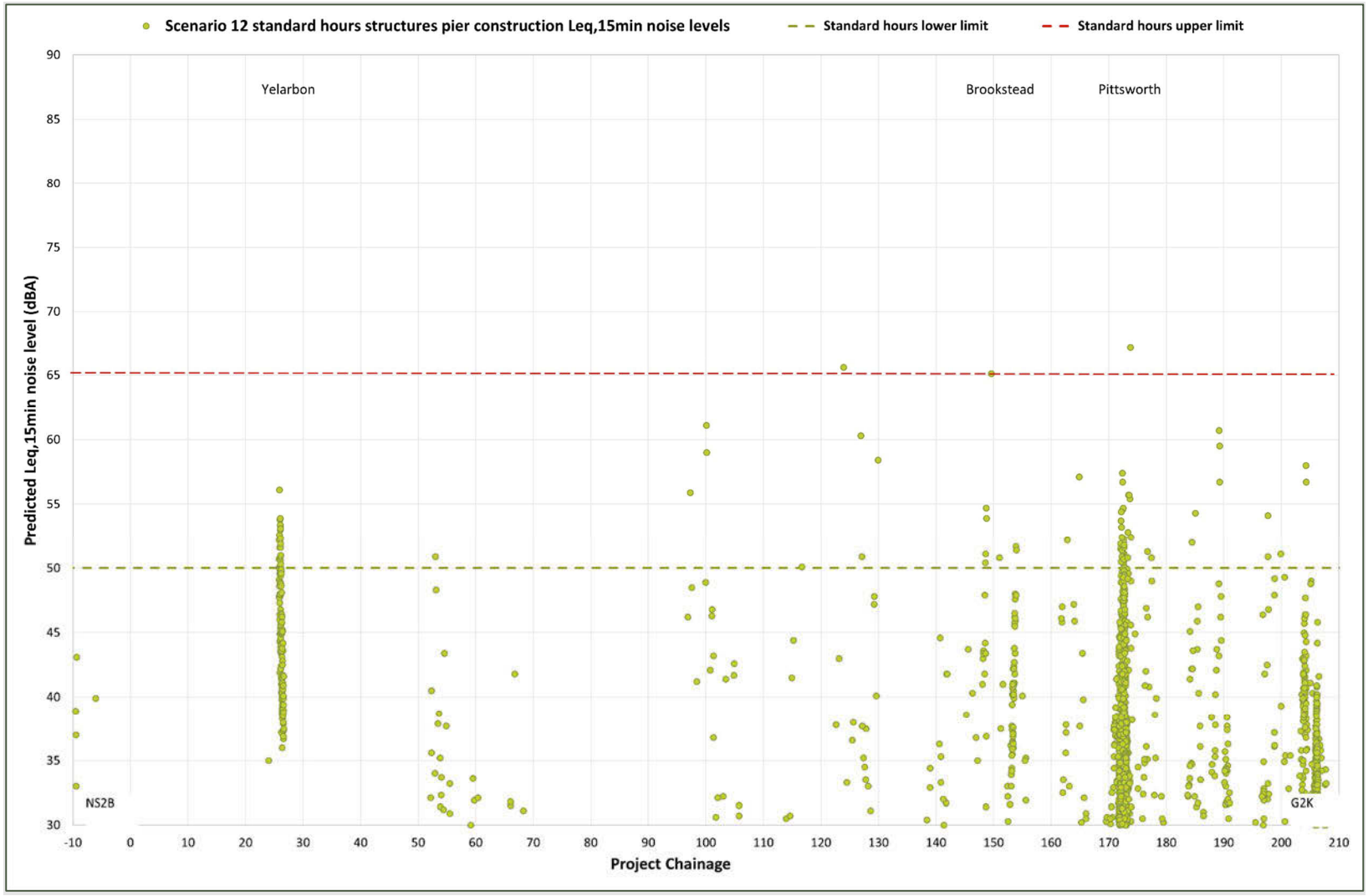
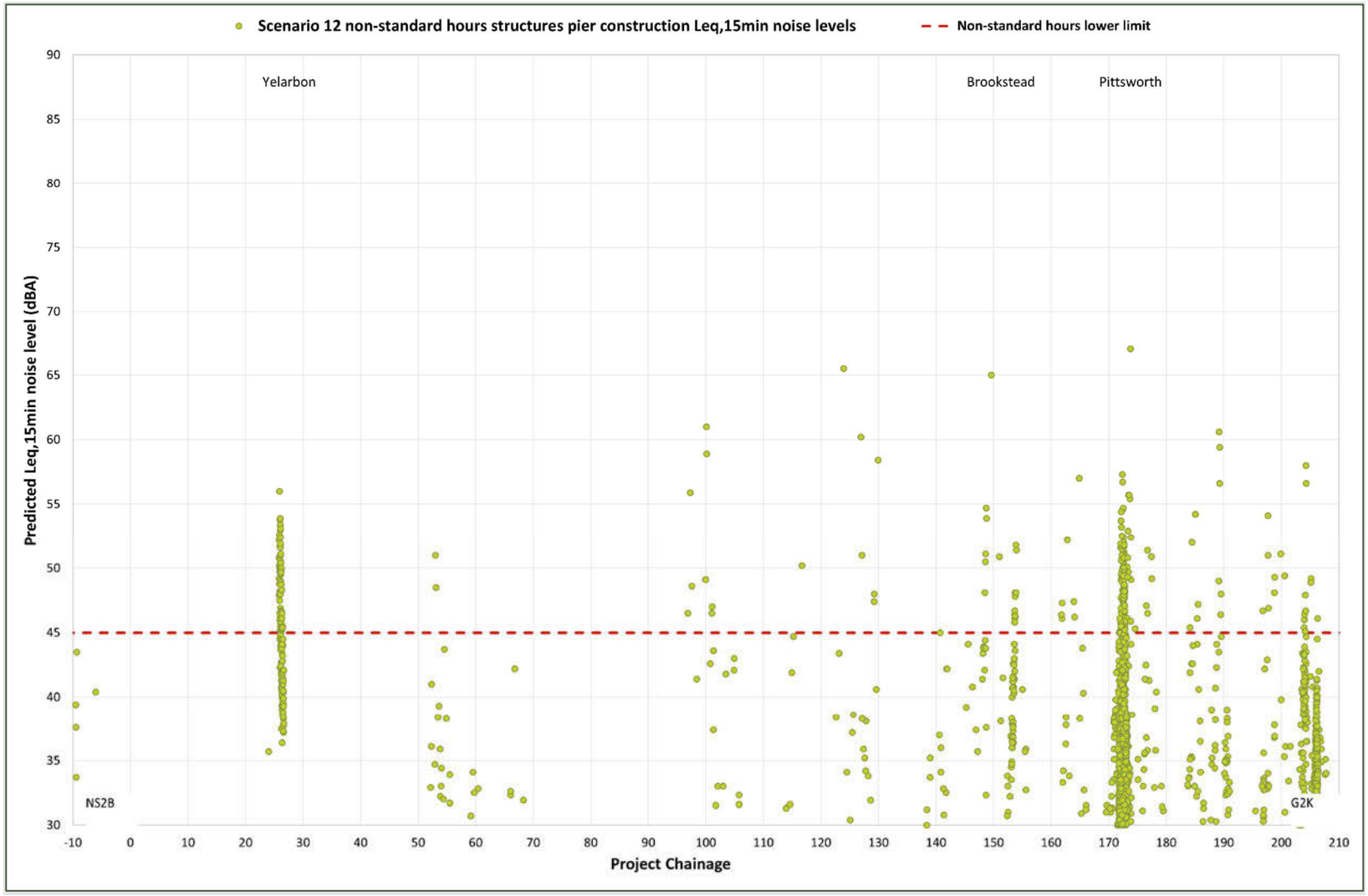


Figure 6-17 Distribution of predicted L_{Aeq} bridge pier construction noise levels – Non-Standard hours



Scenario 13 – superstructure construction

Construction of bridge superstructures are required to take place during both Standard and Non-Standard hours as per the general guidance provided in **Section 2.2**, and in particular the following that is typically required for superstructure construction:

- Delivery of material and equipment requiring escort from the emergency services.
- Delivery of 'in time' concrete, steel, and other construction materials and components delivered to site by heavy vehicles.
- Movements of heavy plant and materials.
- Transport, assembly, or decommissioning of oversized plant, equipment, components, or structures.

Predicted bridge superstructure construction noise levels are tabulated in **Appendix C** for all noise sensitive receptors. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Figure 6-18** for Standard hours work and **Figure 6-19** for Non-Standard hours work.

The assessment of predicted bridge superstructure construction noise levels has indicated the following:

- For Standard hours construction works:
  - The highest predicted construction noise level of 57 dBA $L_{Aeq,adj,15min}$ complies with 65 dBA $L_{Aeq,adj,15min}$ upper noise limit.
  - Eight sensitive receptors are predicted to exceed the 50 dBA $L_{Aeq,adj,15min}$ lower noise limit.
  - Bridge superstructure construction noise levels are predicted to comply with the respective criteria at all community, educational, medical and emergency services receptors.
- For Non-Standard hours construction works:
  - The highest predicted construction noise level of 57 dBA $L_{Aeq,adj,15min}$, which exceeds the Non-Standard hours limit of 45 dBA $L_{Aeq,adj,15min}$ by 12 dBA.
  - 35 sensitive receptors predicted to exceed the noise limit.
  - As indicated in **Table 6-12**, 21 out of the 34 bridge construction sites are predicted to comply with the Non-Standard hours noise limit and therefore bridge superstructure construction works could proceed without the need for further noise mitigation measures.

The noise mitigation measures presented above for the substructure and pier construction phases would be expected to apply to the bridge superstructure construction stage of the work.

Figure 6-18 Distribution of predicted L_{Aeq} bridge superstructure construction noise levels – Standard hours

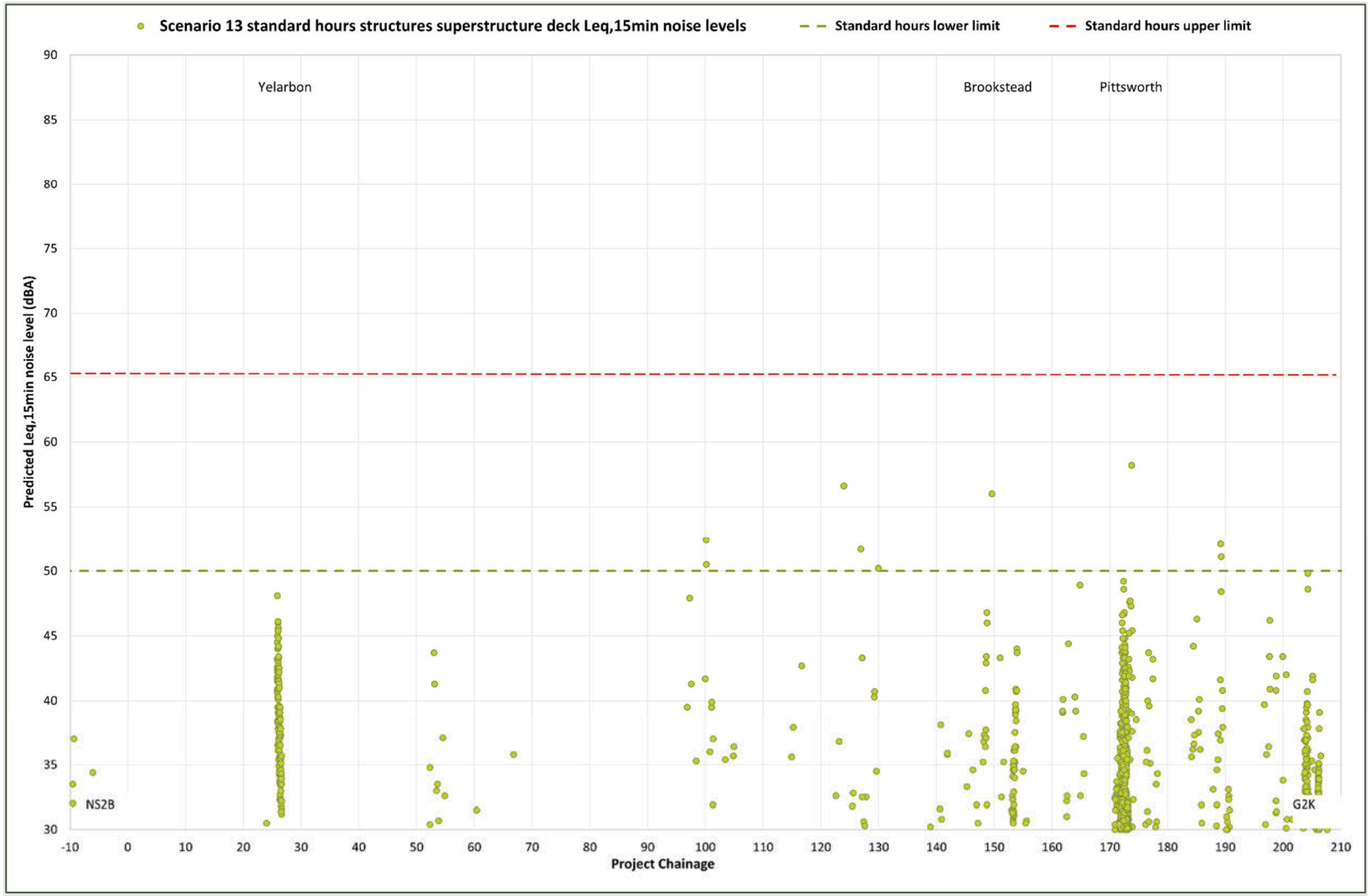
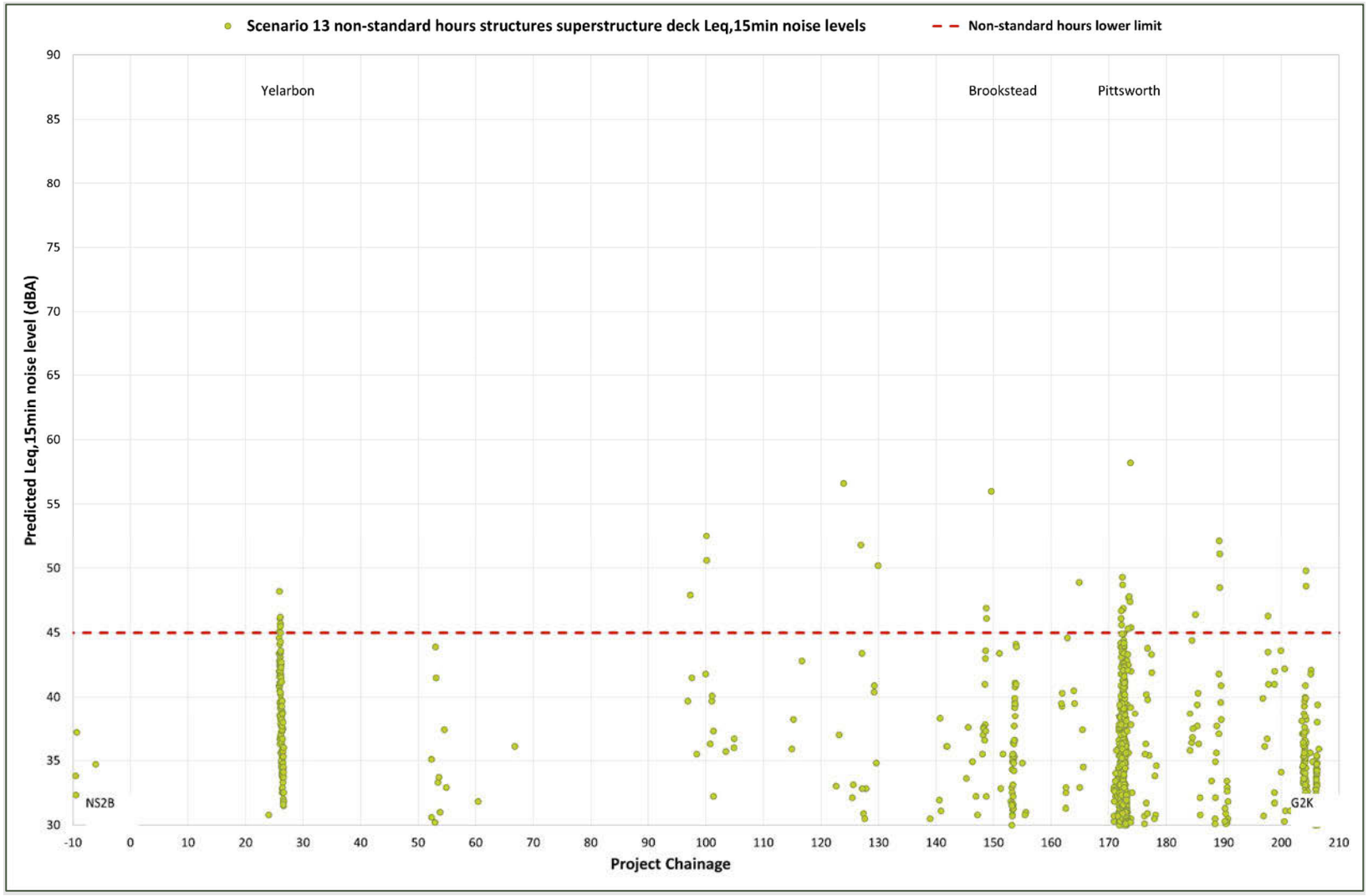


Figure 6-19 Distribution of predicted L_{Aeq} bridge superstructure construction noise levels – Non-Standard hours



6.1.1.12 Scenario 14 – rail civil (bottom ballast)

Rail civil construction works associated with the installation of the bottom ballast layer are required to take place during both Standard and Non-Standard hours as per the guidance provided in **Section 2.2**. Predicted bottom ballast construction noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**. An assessment of data has been carried out and is summarised in **Figure 6-20** for Standard hours work and **Figure 6-21** for Non-Standard hours work.

It is important to note that rail civil works can be inherently noisy and irrespective of the predicted noise levels the approach will be to ensure all reasonable and practicable steps are in place to minimise the potential impact.The assessment of potential construction noise levels associated with rail civil works involving placing of the bottom ballast during Standard hours has identified the following:

- As shown in **Figure 6-20**, construction noise levels are predicted to exceed the Standard hours upper noise limit at 64 sensitive receptors who surround the work areas. The majority of the upper limit exceedances occur within the townships of Yelarbon, Brookstead and Pittsworth, with exceedances ranging up to 20 dBA thereby requiring all reasonable and practicable noise mitigation measures to be applied to minimise the predicted impact. Regarding the predicted upper noise limit exceedances within the townships, noise impacts associated with the rail civil works would be expected to be limited in severity particularly in areas where existing rail operations and maintenance occur.
- 383 sensitive receptors are predicted to experience construction noise levels that exceed the lower limit but comply with the upper noise limit.
- During the bottom ballast installation works, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit has been predicted for:
    - Yelarbon Soldiers Memorial Hall (up to 74 dBA), Pampas Memorial Hall (up to 71 dBA), Brookstead Hall (up to 57 dBA) and the Harvest New Life Church (up to 64 dBA). All items of bottom ballast construction equipment have similar SWLs and therefore it will be difficult to target particularly noisy items with mitigation. Consequently, consultation with these sensitive receptors is required during the detailed design stage to coordinate construction hours that would have the least or no impact on the use of these venues.

The assessment of bottom ballast placement works during Non-Standard hours has identified the following:

- A significant number of sensitive receptors (i.e. 620) are predicted to experience construction noise levels that exceed the 45 dBA $L_{Aeq,adj,15min}$ noise limit.
- **Figure 6-21** indicates only small sections of Project alignment where Non-Standard hours work would likely proceed without mandatory noise mitigation and management measures.

For sections of the Project alignment where Non-Standard hours rail civil works are absolutely necessary (i.e. as outlined in **Section 2.2.2**), further investigation of noise mitigation measures would be undertaken during the detailed design stage. Notwithstanding this, given the rail civil works are expected to occur at a later stage of the Project construction, it is likely that the noise mitigation measures developed during the earlier stages of the construction program (e.g. quietest available equipment, noise attenuated equipment etc) would be well refined and greatly assist with meeting the expectations of the surrounding community.

Figure 6-20 Distribution of predicted L_{Aeq} rail civil bottom ballast construction noise levels – Standard hours

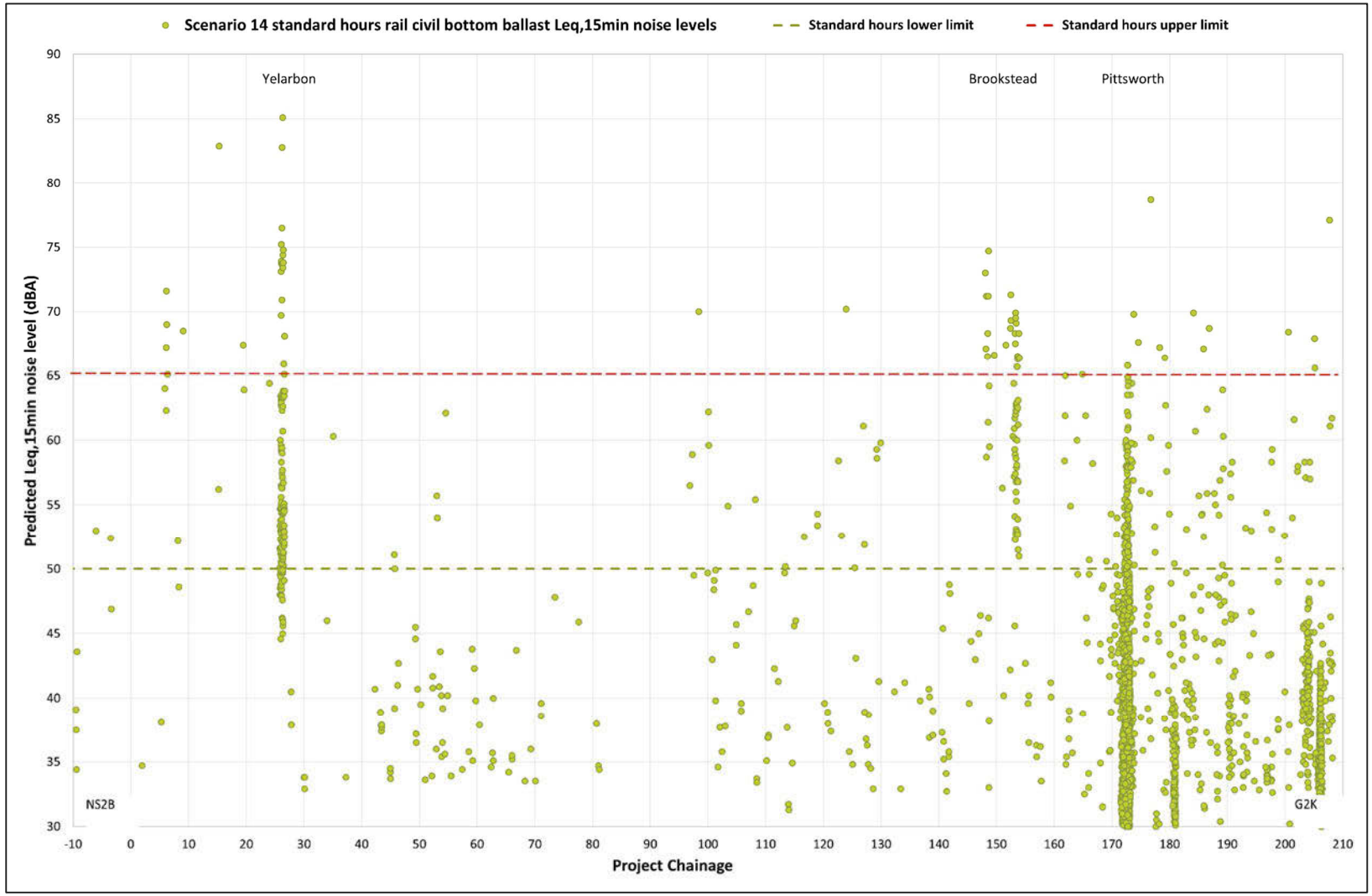
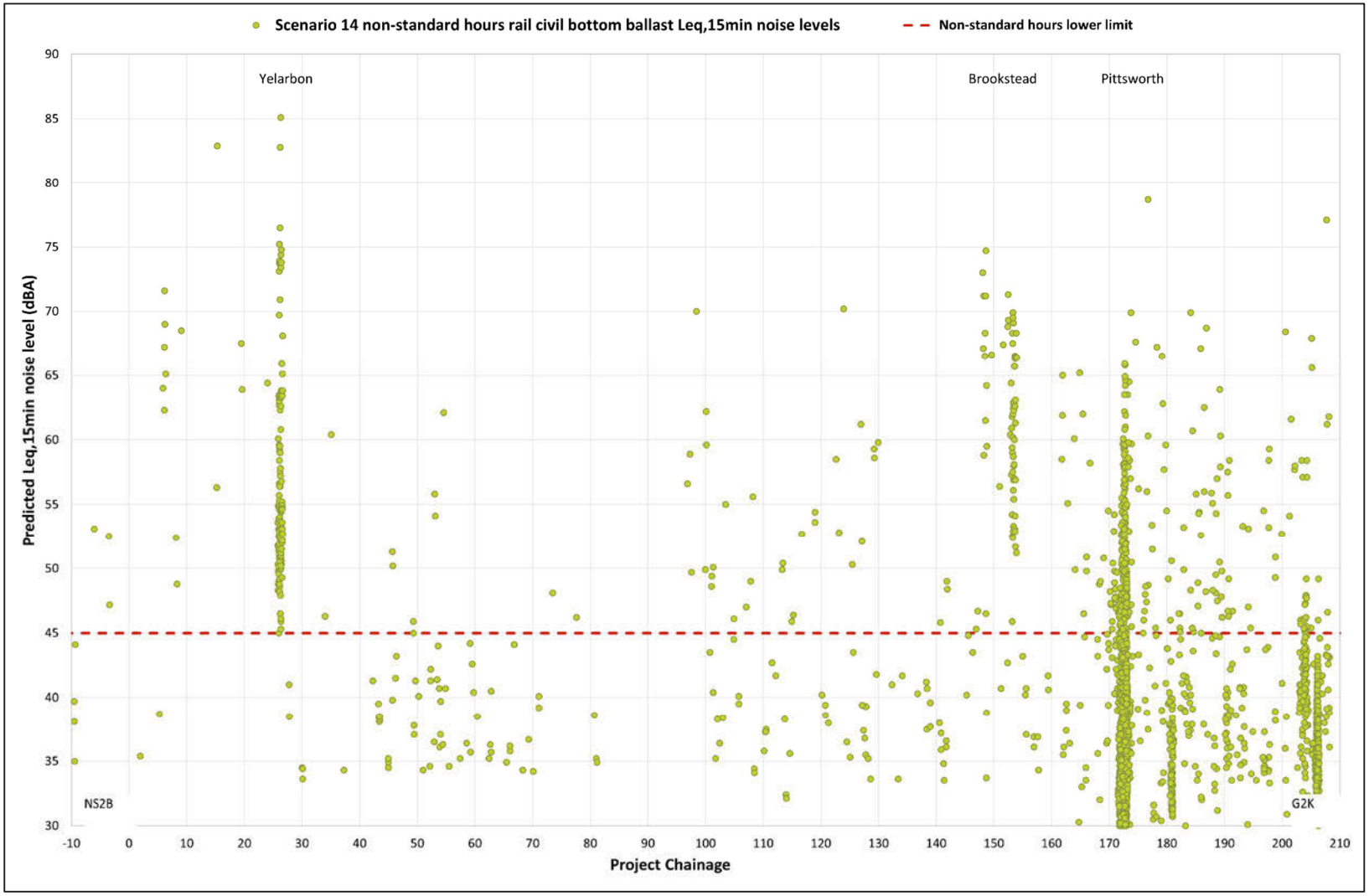


Figure 6-21 Distribution of predicted L_{Aeq} rail civil bottom ballast construction noise levels – Non-Standard hours



6.1.1.13 Scenario 15 – rail civil (sleeper and rail installation)

Rail civil construction works associated with the installation of sleepers and rails are required to take place during both Standard and Non-Standard hours. Predicted construction noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Figure 6-22** for Standard hours work and **Figure 6-23** for Non-Standard hours work.

It is important to note that the installation of sleepers and rails for the Project will progress at a significantly faster rate compared to other stages of construction such as the cut and fill works. Consequently, periods of exposure of sensitive receptors to sleeper and rail installation construction noise levels would be relatively brief and likely to be managed through effective stakeholder engagement.

The assessment of potential construction noise levels associated with rail civil works involving the installation of sleepers and rails during Standard hours has identified the following:

- As shown in **Figure 6-20**, construction noise levels are predicted to exceed the Standard hours upper noise limit at 23 sensitive receptors with the most impacted area being Yelarbon.
- 211 sensitive receptors are predicted to experience construction noise levels that exceed the lower limit but comply with the upper noise limit. The majority of these receptors are located within the townships of Yelarbon, Brookstead and Pittsworth
- During the sleeper and rail installation works, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit has been predicted for:
    - Yelarbon Soldiers Memorial Hall (up to 68 dBA), Pampas Memorial Hall (up to 66 dBA) and the Harvest New Life Church (up to 58 dBA). Consultation with these sensitive receptors is required during the detailed design stage to coordinate construction hours that would have the least or no impact on the use of these venues.

The assessment of bottom ballast placement works during Non-Standard hours has identified the following:

- A significant number of sensitive receptors (i.e. 371) are predicted to experience construction noise levels that exceed the 45 dBA $L_{Aeq,adj,15min}$ noise limit.

For sections of the Project alignment where Non-Standard hours rail civil works are absolutely necessary (i.e. as outlined in **Section 2.2.2**), further investigation of noise mitigation measures would be undertaken during the detailed design stage.

Figure 6-22 Distribution of predicted L_{Aeq} rail civil sleeper and rail installation construction noise levels – Standard hours

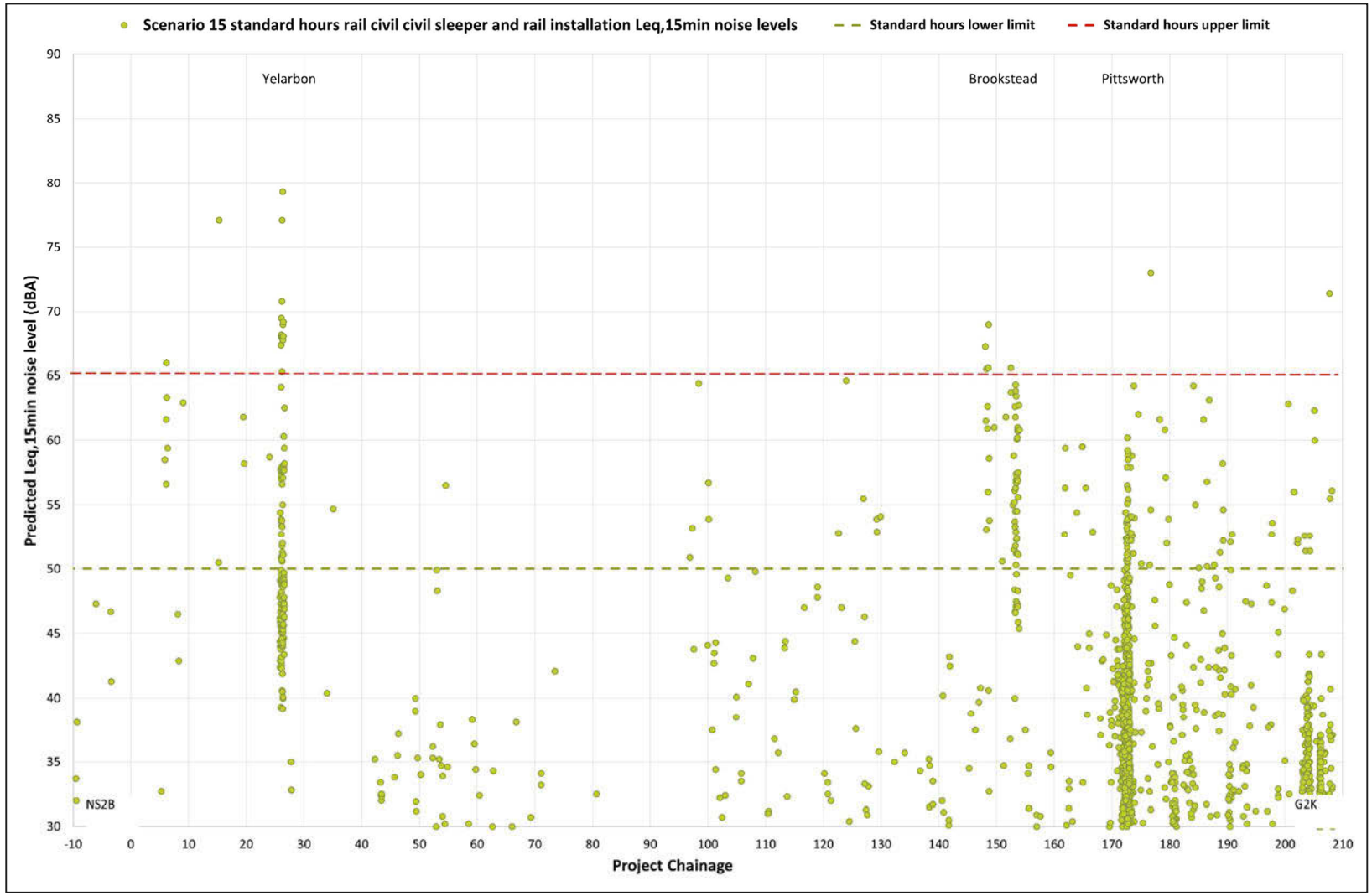
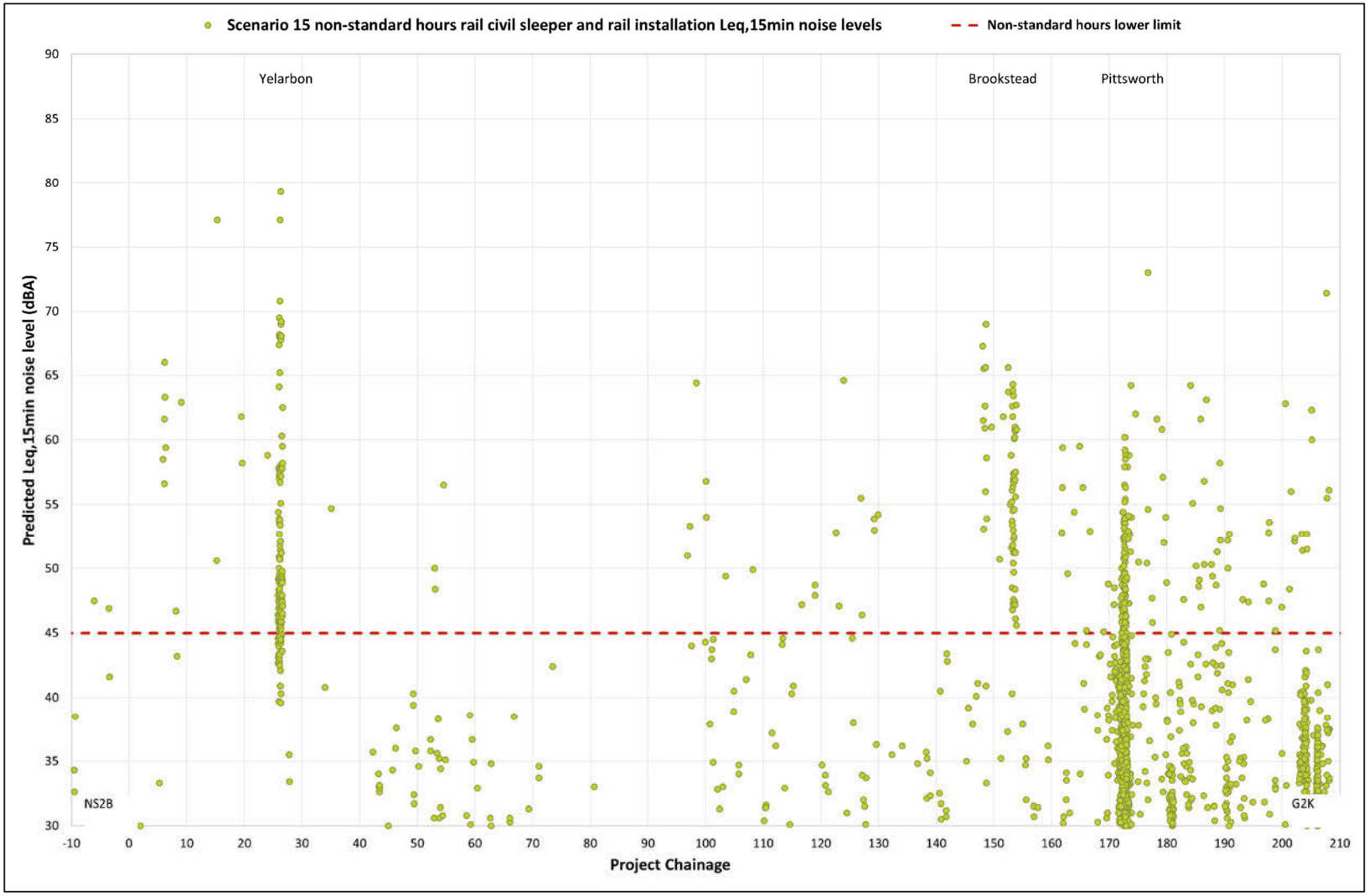


Figure 6-23 Distribution of predicted L_{Aeq} rail civil sleeper and rail installation construction noise levels – Non-Standard hours



6.1.1.14 Scenario 16 – rail civil (tamping and regulating)

Rail civil construction works associated with the tamping and regulating of the ballast layer are required to take place during both Standard and Non-Standard hours. Like the sleeper and rail installation works, the tamper and regulator will steadily progress along the Project alignment resulting in short-term exposure periods to individual sensitive receptors.

Predicted tamping and regulating construction noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in Figure 6-24 for Standard hours work and Figure 6-25 for Non-Standard hours work.

The assessment of construction noise levels associated with rail civil works involving the tamping and regulating of the ballast has identified the potential for a significant number of exceedances of the noise limits during both Standard and Non-Standard hours. As noted above for the capping and ballast placement scenario, rail civil works should be carried out during Standard hours insofar as possible. Further investigation of noise mitigation measures would be required where Non-Standard hours rail civil works are required.

During ballast tamping and regulating works, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit has been predicted for:

- Yelarbon Soldiers Memorial Hall (up to 74 dBA), Pampas Memorial Hall (up to 72 dBA), Brookstead Hall (up to 60 dBA) and the Harvest New Life Church (up to 64 dBA). Predicted construction noise levels are dominated by the ballast tamper and regulator and therefore consultation with these sensitive receptors is required during the detailed design stage to coordinate construction hours that would have the least or no impact on the use of these venues.

Figure 6-24 Distribution of predicted L_{Aeq} rail civil tamping and regulating construction noise levels – Standard hours

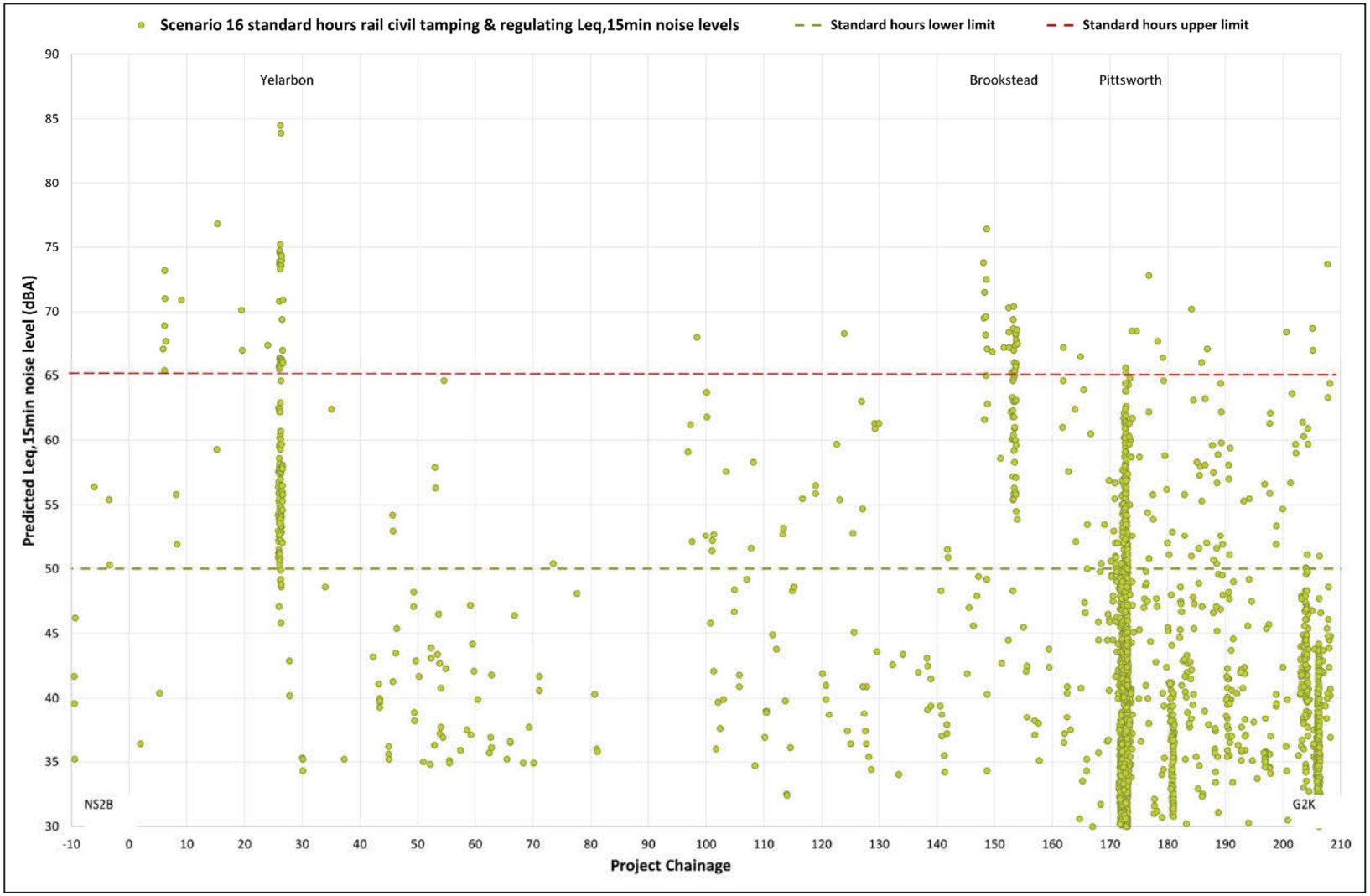
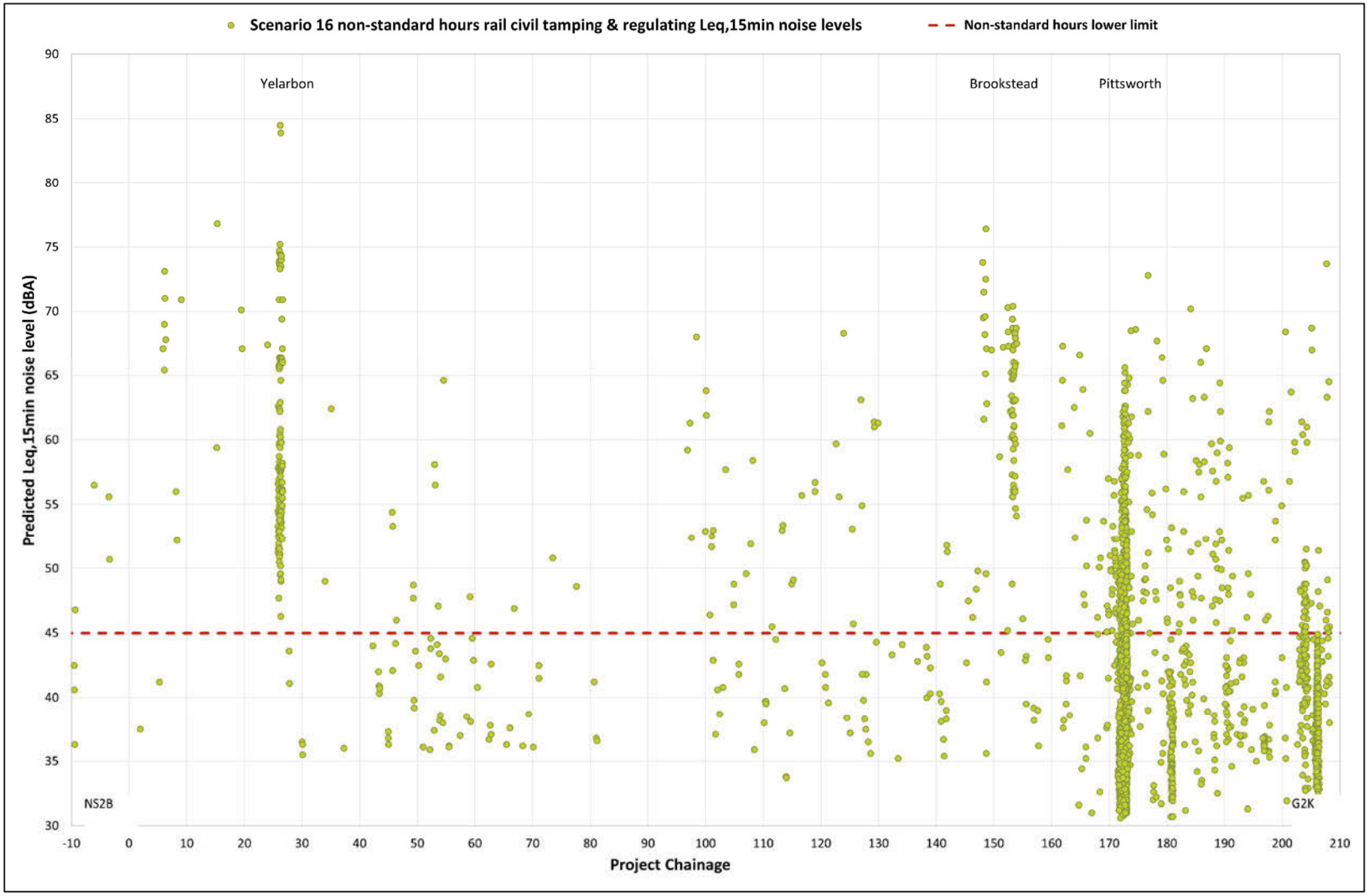


Figure 6-25 Distribution of predicted L_{Aeq} rail civil tamping and regulating construction noise levels – Non-Standard hours



6.1.1.15 Scenario 17 – road civil (road base)

Road civil construction works associated with installation of the road base layer are required to take place during both Standard and Non-Standard hours. Predicted road base installation construction noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Figure 6-26** for Standard hours work and **Figure 6-27** for Non-Standard hours work.

The assessment of potential construction noise levels associated with road civil works involving road base placement during Standard and Non-Standard hours has identified the following:

- As shown in **Figure 6-26** and **Figure 6-27**, most of the noise limit exceedances occur within the townships of Yelarbon, Brookstead and Pittsworth, with exceedances ranging up to 35 dBA thereby requiring all reasonable and practicable noise mitigation measures to be applied to minimise the predicted impact.
- 248 sensitive receptors are predicted to experience construction noise levels that exceed the lower limit but comply with the upper noise limit.
- During road base construction works, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit has been predicted for:
    - Yelarbon Soldiers Memorial Hall (up to 86 dBA) and the Pampas Memorial Hall (up to 94 dBA) due to the proximity of these receptors to the road civil works. Predicted construction noise levels are dominated by the grader and compactor. Consultation with these sensitive receptors is required during the detailed design stage to coordinate construction hours that would have the least or no impact on the use of these venues.

It should be noted that the assessment of road civil construction works is based on predicted worst-case noise levels where all proposed construction equipment is operating simultaneously at its closest location relative to individual sensitive receptors. For sections of the Project alignment where Non-Standard hours (e.g. during the 10 pm to 7 am night-time period) road civil works are necessary, further investigation of noise mitigation measures would be undertaken during the detailed design stage.

Figure 6-26 Distribution of predicted L_{Aeq} road base construction noise levels – Standard hours

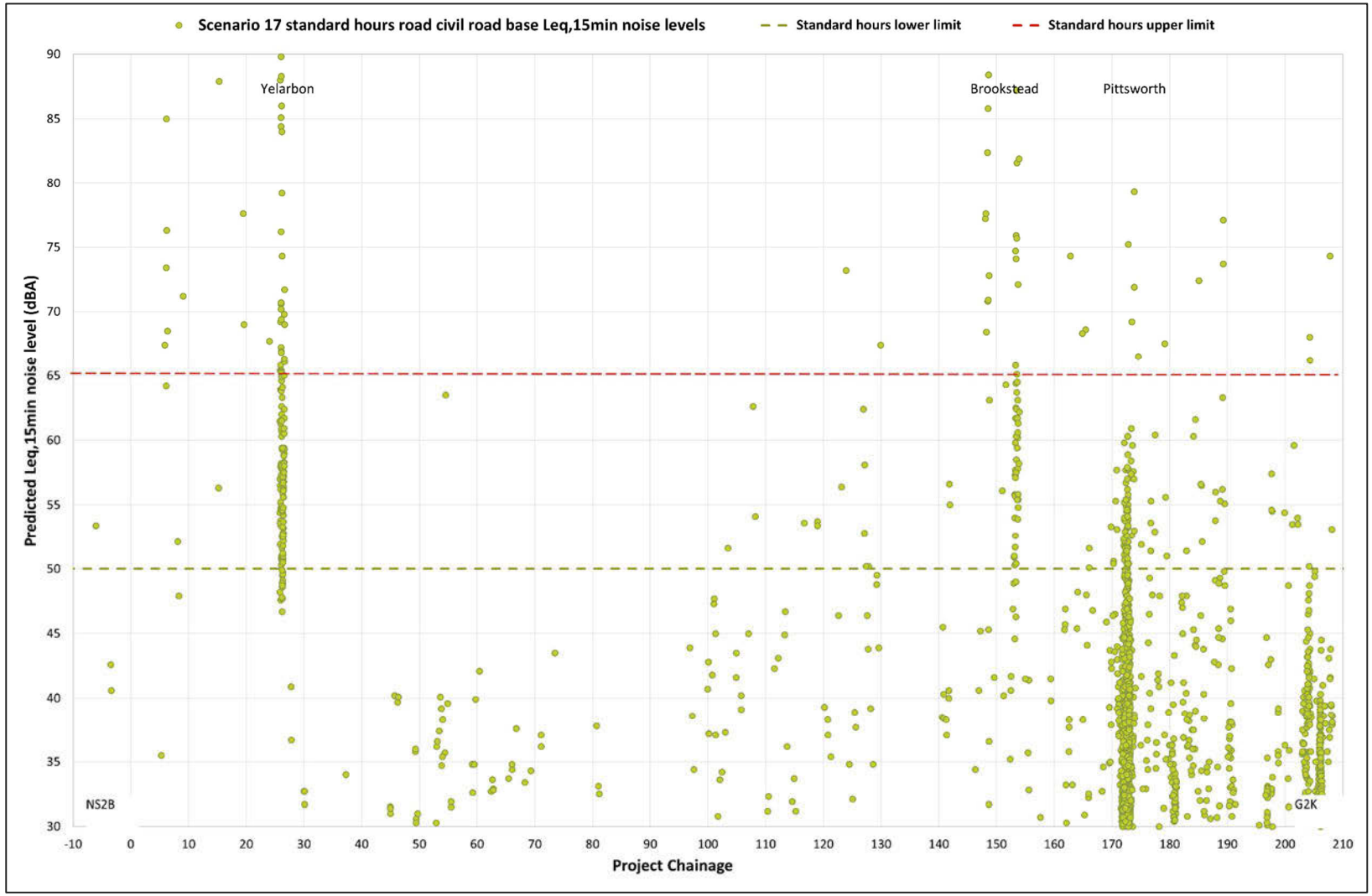
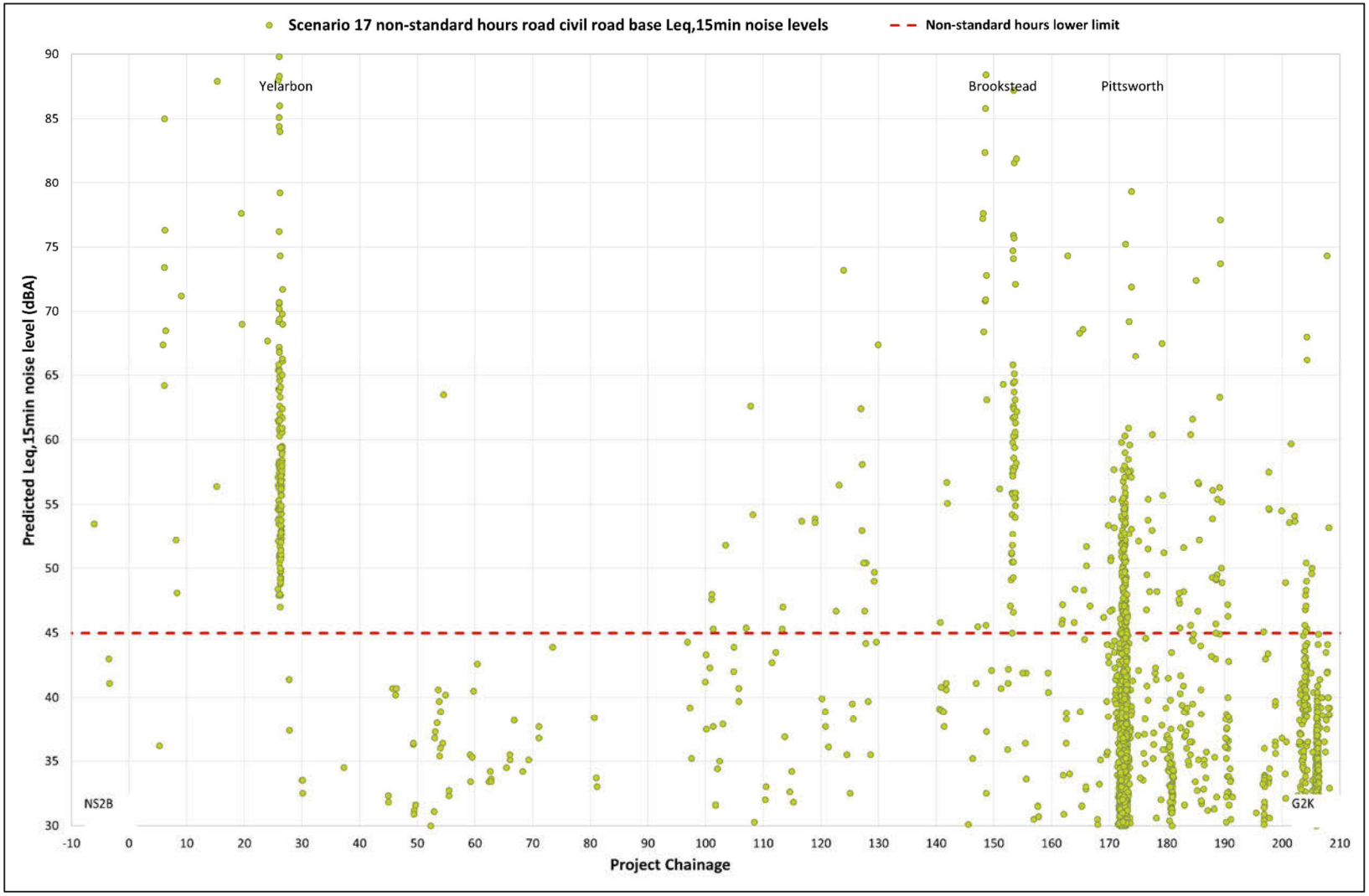


Figure 6-27 Distribution of predicted L_{Aeq} road base construction noise levels – Non-Standard hours



6.1.1.16 Scenario 18 – road civil (asphalting)

Road civil construction works associated with installation of the asphalt layer are required to take place during both Standard and Non-Standard hours. Predicted asphalt installation construction noise levels for all noise sensitive receptors are tabulated in **Appendix C**. Noise contour maps are also presented in **Appendix D**.

An assessment of data has been carried out and is summarised in **Figure 6-28** for Standard hours work and **Figure 6-29** for Non-Standard hours work.

The assessment of construction noise levels associated with road civil works involving asphalting has identified the potential for a significant number of exceedances of the noise limits during both Standard and Non-Standard hours. The Non-Standard hours noise limit is predicted to be exceeded at 212 sensitive receptors, most of the which occur within the townships of Yelarbon, Brookstead and Pittsworth

As noted above for the road base construction scenario, road civil works should be carried out during Standard hours insofar as possible. Further investigation of noise mitigation measures would be required where Non-Standard hours road civil works is necessary including works required to maintain the safety of motorists and workers.

Most notably, exceedance of the 52 dBA $L_{Aeq,adj,15min}$ noise limit has been predicted for:

- Yelarbon Soldiers Memorial Hall (up to 84 dBA) and the Pampas Memorial Hall (up to 93 dBA). Predicted construction noise levels are dominated by the asphalting equipment. Consultation with these sensitive receptors is required during the detailed design stage to coordinate construction hours that would have the least or no impact on the use of these venues.

Figure 6-28 Distribution of predicted L_{Aeq} asphalt layer construction noise levels – Standard hours

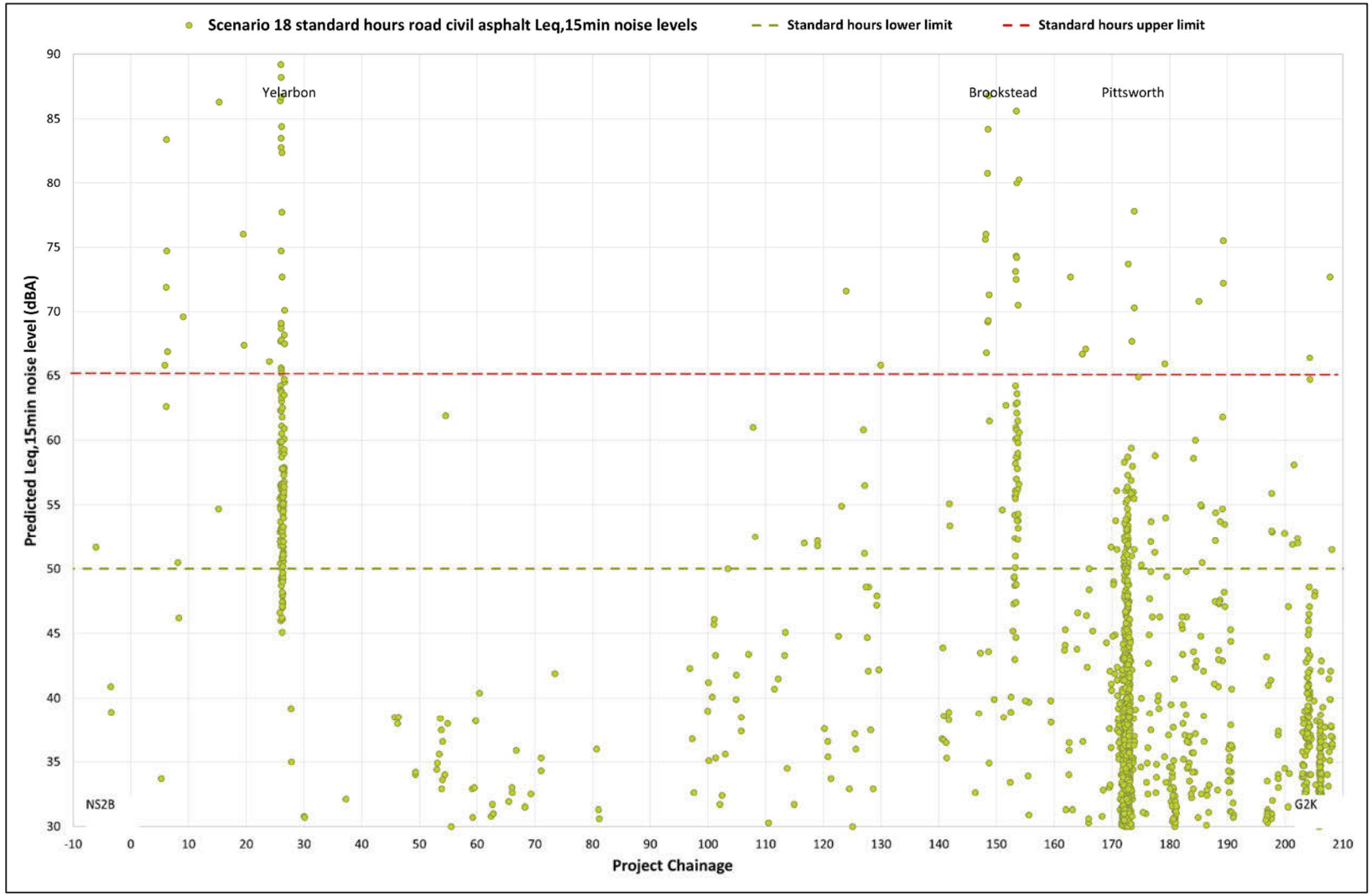
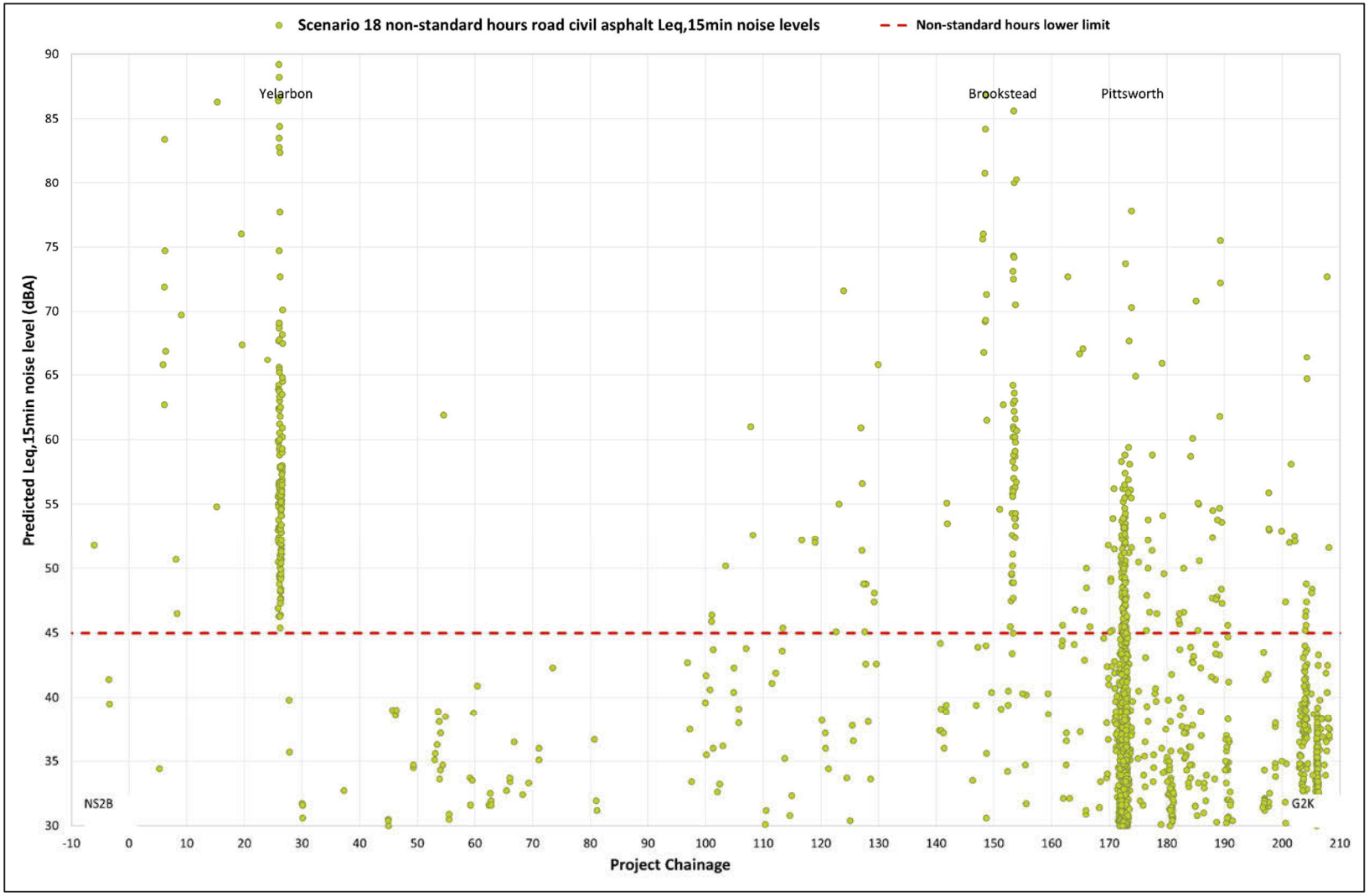


Figure 6-29 Distribution of predicted L_{Aeq} asphalt layer construction noise levels – Non-Standard hours



6.1.2 Construction vibration

The following section addresses the potential vibration impacts associated with the construction of the Project. Based on the proposed construction fleet, the dominant sources of vibration emissions are anticipated to include:

- Rock breaking activities potentially required across the Project.
- Vibratory rollers will be required during earthworks, civil rail and road works.
- Vibratory piling potentially required at bridge construction sites in wetland areas.
- Driven (percussive) piling potentially required at bridge construction sites.

In practice, accurate prediction of ground vibration levels is difficult to achieve due to the dependence of vibration transmissibility of the intervening soil between the source and receptor. Therefore, it is Standard practice to maintain adequate separation distance or 'safe' working distance where possible and/or monitor vibration levels at sensitive receptor locations during vibration intensive construction works. The safe working distances provide a simple and conservative guide to site personnel to manage the likelihood of vibration impacts to sensitive receptors.

Safe working distances for the vibration intensive equipment proposed to operate on the Project are listed in Table 6-13. Safe working offset distances reported for the vibratory rollers and sheet piling rig include a distance for both start-up or run down and steady state operation. The first number represents start-up or run down, while the second number represents steady state operation.

Vibration safe working distance contour maps for all relevant sources of construction vibration are also provided in **Appendix E** for the following sensitive receptor limits:

- Human comfort limits of 0.3 mm/s, 1.0 mm/s and 2.0 mm/s
- Heritage structures limit of 2.5 mm/s
- Light framed structures, residential or light commercial type buildings limit of 7.5 mm/s
- Reinforced concrete industrial and heavy commercial buildings limit of 25 mm/s.

Safe working distances and assessment of potential vibration impacts to PUP has not been included in Table 6-13. PUP will be assessed during the detailed design stage of the Project in accordance with the utility providers codes of practice/permitting and MRTS170, MRTS171.

Table 6-13 Vibration safe working distances for sensitive receptors

Sensitive receptor	PPV limits (mm/s)	Minimum safe work offset distance from construction activity measured along the ground surface unless stated otherwise (m)						
		20T vibratory rolling [1]		12T vibratory rolling [1]		Rock breaking (16 kJ)	Driven piling (K_p 3/1.5) [1]	Sheet piling[1]
		Low amplitude	High amplitude	Low amplitude	High amplitude			
Human comfort: Standard hours	1.0 lower limit	36/30	117/83	50/39	124/87	59	176/102	105/46
	2.0 upper limit	20/18	68/51	29/18	72/54	31	102/59	59/22
Human comfort: Non-Standard hours	0.3 lower limit	95/69	299/187	130/91	316/197	175	445/261	286/165
	1.0 upper limit	36/30	117/83	50/39	124/87	59	176/102	105/46
Heritage structures	2.5	17/15	57/44	24/20	60/46	25	86/49	49/18
Light framed structure, residential or light commercial type buildings	7.5	6/6	23/20	9/9	25/21	9	34/16	20/6
Reinforced concrete industrial and heavy commercial buildings	25	1/2	8/8	2/3	8/8	3	15/9 [2]	7/2

Note 1: Safe working offset distances reported for start-up or run down and steady state operation. The first number represents start-up or run down, while the second number represents steady state operation.

Note 2: From pile toe to vibration sensitive asset (i.e. not measured along the ground surface).

The safe working distances in **Table 6-13** are recommended, with regard to the vibration criteria detailed in **Section 3.3.1.5**, for the avoidance of human comfort impacts, and cosmetic damage to sensitive and commercial buildings.

Based on the calculated safe working distances presented in **Table 6-13** and the contours presented in **Appendix E**, the following key points are provided:

- Human comfort safe working distances of up to 316 m have been calculated for the largest vibratory rollers during start-up/run down on the high amplitude setting. The majority of sensitive receptors located within the contours trigger only the human comfort vibration limits indicating that building damage impacts from the Project would likely be avoided. Further to this and as noted above, the safe working distances have been calculated using the Hiller and Crabb[2] derived empirical formulae reproduced in BS 5228 Part 2 and therefore are likely to be overly conservative particularly at distances of 100 m and beyond. In SLR's experience, vibration levels from all sizes of vibratory rollers are generally negligible at 100 m and beyond. On this basis, it is recommended that human comfort vibration impacts are managed as follows:
    - Compaction works to be completed using the smallest practicable vibratory roller suitable to complete the task.
    - Vibratory rollers to be operated on the low amplitude setting or works to be completed using oscillating rollers where there is a risk of exceeding the vibration criteria.
    - Insofar as reasonably practicable, avoid operating vibration intensive equipment during Non-Standard hours to prevent the risk of human annoyance triggered by exceeding the threshold of perception (i.e. 0.3 mm/s).
    - Ensure all vibration sensitive receptors located within the conservative human comfort safe working distances (provided as contour maps in **Appendix E**) are notified in advance of the potential for vibration levels to be perceptible during the Project construction works. It is noteworthy that the zone of construction noise impacted receptors and therefore mandatory community consultation is expected to extend beyond the zone of construction vibration impacted receptors including human comfort impacts.
- Regarding the safe working distances calculated for the rock breaker, exact rock breaking work areas are not yet known. Where rock breaking is required, the safe working distances should be maintained unless direct measurement of rock breaking vibration levels confirm that the vibration limits are being always complied with. Like the vibratory rollers, smaller sized rock breakers would be expected to generate lower levels of vibration.
- If required for the Project, both driven (percussive) piling and sheet piling human comfort safe working distances are significant (i.e. out to 445 m during Non-Standard hours) albeit likely to be overly conservative. All sensitive receptors within the contours trigger only the human comfort vibration limits. It should be noted that the requirement for driven (percussive) piling is not yet confirmed for the Project. Human comfort vibration impacts are not anticipated from bridge substructure construction

[2] Hiller D.M. and Crabb G.I. Groundborne vibration caused by mechanised construction works. TRL Report 429. Wokingham: TRL, 2000.

utilising the bored piling technique. Where driven piling is required at bridge construction sites with sensitive receptors located within the contours, it is expected that the noise mitigation measures detailed in **Section 6.1.1.11** and **Section 6.1.5**, in terms of program scheduling and respite measures, would also mitigate human comfort impacts insofar as practicable.

- With reference to **Table 5-3**, the following heritage structures/sites were identified to lie within the 2.5 mm/s vibration safe working distance contour:
  - B2G-19-H01 to H11
  - B2G-19-H15 to H16
  - B2G-19-H20 to H34

  Vibration mitigation measures will be required for all Project vibration intensive works required within the safe working distance to these heritage structures/sites. Pre and post-condition surveys and vibration monitoring will be completed for all heritage structures where vibration intensive works are required to take place within the safe working distances. Details regarding the condition surveys and vibration monitoring will be detailed within the NVMP.
- Construction vibration levels are predicted to be below 5 mm/s for the Brookstead weighbridge and therefore damage to the weighbridge would not be expected at these levels.

6.1.3 Blasting overpressure and ground vibration

Based on the AS 2187 prediction formula and assumed site constants detailed in **Section 4.3.3**, **Table 6-14** presents the MICs calculated to comply with the respective airblast overpressure limits at the closest residential receptors to the blasting sites potentially required for the Project (i.e. the blast is designed to comply with the blasting criteria).

Table 6-15 presents the MICs calculated to comply with the respective ground vibration limits at the closest residential receptors.

As indicated by the MICs presented in **Table 6-14** and

Table 6-15, blasting for the Project will potentially be constrained (in terms of MICs per delay) in some areas and require further detailed blast design and optimisation due to the proximity of sensitive receptors. It is important to note that the conservatively calculated MICs have been calculated from the closest offset distance between the blasting site and receptor. At all potential project blasting sites, there is an opportunity to commence blasting at larger offset distances from sensitive receptors to refine the blast design to ensure that compliance with the blasting criteria is achieved for the Project.

Table 6-14 Calculated MICs to comply with the airblast overpressure limits at the closest residential receptor

Potential blasting region	Closest residential receptor	Distance between receptor and potential blasting zone (m)	MIC to Comply With (kg)			
			115 dBL	120 dBL	125 dBL	133 dBL
Ch 48.9 to 51.3 km	254730	725	36	28	119	1,221
Ch 114.5 to 114.7 km	255630	760	42	32	138	1,409
Ch 165.3 to 168.8 km	319481	150	<10	<10	<10	10
Ch 176.1 to 176.6 km	319652	215	<10	<10	<10	31
Ch 178.8 to 180.5 km	319226	110	<10	<10	<10	<10
Ch 186.5 to 186.9 km	319000	100	<10	<10	<10	<10
Ch 190.2 to 191.6 km	319362	230	<10	<10	<10	38
Ch 193.5 to 194.6 km	319718	385	<10	<10	18	179

Table 6-15 Calculated MICs to comply with the ground vibration limits at the closest residential receptor

Potential blasting region	Closest residential receptor	Distance between receptor and potential blasting zone (m)	MIC to Comply With (kg)					
			5 mm/s PPV	10 mm/s PPV	15 mm/s PPV	25 mm/s PPV	50 mm/s PPV	100 mm/s PPV
Ch 48.9 to 51.3 km	254730	725	596	611	1,014	1,921	4,568	10,859
Ch 114.5 to 114.7 km	255630	760	655	671	1,115	2,111	5,020	11,933
Ch 165.3 to 168.8 km	319481	150	26	26	43	82	196	465
Ch 176.1 to 176.6 km	319652	215	52	54	89	169	402	955
Ch 178.8 to 180.5 km	319226	110	14	14	23	44	105	250
Ch 186.5 to 186.9 km	319000	100	11	12	19	37	87	207
Ch 190.2 to 191.6 km	319362	230	60	61	102	193	460	1,093
Ch 193.5 to 194.6 km	319718	385	168	172	286	542	1,288	3,062

Table 6-16 presents an assessment of MICs calculated to comply with the heritage structures/site criterion of 2.5 mm/s.

Table 6-16 Calculated MICs to comply with the ground vibration limit at the closest heritage structure/site

Potential blasting region	Closest heritage structure	Distance between receptor and potential blasting zone (m)	MIC to Comply With (kg)
			2.5 mm/s PPV Criterion
Ch 48.9 to 51.3 km	B2G-19-H14 (homestead complex)	3,260	2,184
Ch 114.5 to 114.7 km	None within 5 km	--	--
Ch 165.3 to 168.8 km	B2G-19-H33 (homestead complex)	500	51
Ch 176.1 to 176.6 km	None within 5 km	--	--
Ch 178.8 to 180.5 km	None within 5 km	--	--
Ch 186.5 to 186.9 km	None within 5 km	--	--
Ch 190.2 to 191.6 km	None within 5 km	--	--
Ch 193.5 to 194.6 km	None within 5 km	--	--

The assessment of potential blasting impacts to heritage structures/sites indicates that only the region between Ch 165.3 to 168.8 km would require further analysis and detailed blast design to mitigate against potential impacts to the homestead complex (B2G-19-H33).

6.1.4 Construction road traffic noise

The predicted change in $L_{A10(1hr)}$ road traffic noise for each year of the construction program (i.e. construction year 1 to 5) is presented in **Appendix F**. The Project will require construction traffic to access both major roads with high traffic volumes as well as minor roads (i.e. local roads in rural areas) with very limited background traffic. Consequently, construction traffic is predicted to exceed the criterion on most roads used by the Project even with the addition of relatively small volumes of construction traffic.

Table 6-17 summarises the roads where the addition of construction traffic is predicted to increase the forecast $L_{A10(1hr)}$ road traffic noise level by more than 3 dBA corresponding to a "marginal" significance of change in road traffic noise level and by no means a clear or substantial risk of noise impact. The data indicates that of the assessed roads, up to 149 roads are predicted to experience an increase of 3 dB or more in road traffic noise level. This peak impact coincides with Year 2 of construction. Up to 12 roads are predicted to experience a very significant (i.e. 15 dBA or greater) increase in road traffic noise levels. All of these roads currently have very low traffic volumes.

However, it should be noted that absolute maximum noise levels associated with vehicle passbys on these roads would likely be unaltered by the Project construction vehicles (i.e. being a similar noise event to existing heavy vehicle movements on these roads), only the frequency of such events would increase.

Construction road traffic noise impacts would be subject to further assessment and development of mitigation measures (i.e. such as those detailed in **Section 7.0**) during the detailed design stage of the Project.

Table 6-17 Construction road traffic noise criterion exceedances

Road name (ID)	Road segment detail	Predicted increase in $L_{A10(1hour)}$ road traffic noise level with construction traffic (dBA)				
		Year 1	Year 2	Year 3	Year 4	Year 5
Barwon Highway (31A)	Ch 2.0 to Ch 88.0	3	**4**	**4**	**4**	3
Barwon Highway (31B)	Ch 0.0 to Ch 66.8	**6**	**7**	**7**	**7**	**5**
Carnarvon Highway (24A)	Ch 40.5 to Ch 73.5	**7**	**7**	**7**	**7**	**6**
Cunningham Highway (17C)	Ch 96.2 to Ch 107.6	**8**	**6**	**5**	**5**	3
Cunningham Highway (17D)	Ch 0.0 to Ch 43.9	**8**	**7**	**5**	**6**	3
Gore Highway (28A)	Ch 0.0 to Ch 60.8	**6**	**9**	**9**	**3**	3
Gore Highway (28B)	Ch 0.0 to Ch 3.0	**6**	**6**	**6**	**6**	**5**
Millmerran-Inglewood Road (337)	Ch 0.0 to 68.7	**13**	**11**	**8**	**9**	**7**
Millmerran-Leyburn Road (335)	Ch 0.0 to Ch 2.2	3	**7**	**7**	2	2
Texas-Yelarbon Road (2322)	Ch 53.3 to Ch 54.6	0	**4**	0	0	0
Toowoomba-Cecil Plains Road (324)	Ch 14.5 to Ch 16.3	1	**5**	**5**	1	0
Boodle Street	Holcim Concrete Goondiwindi to Hunt Street	0	**4**	**4**	0	0
Bybera Road	Cunningham Highway to B2G-LDN060.4	**13**	**7**	3	**7**	2
	B2G-LDN060.4 to Earthworks Area 2A	**13**	0	0	0	0
Cemetery Road	Access Track to Mooroobie Lane	0	3	0	0	0
	Cunningham Highway to GrainCorp Goondiwindi	**4**	**4**	**4**	**4**	3
Coolmunda Dam Access	Inglewood Legacy Bore to Coolmunda Dam Access	**7**	**7**	3	2	0
	Coolmunda Dam Access to Cunningham Highway	**7**	**7**	3	2	0
East Sawmill Road	Cunningham Highway to B2G-LDN030.0	**16**	**16**	**5**	**4**	3

Road name (ID)	Road segment detail	Predicted increase in $L_{A10(1hour)}$ road traffic noise level with construction traffic (dBA)				
		Year 1	Year 2	Year 3	Year 4	Year 5
Eukabilla Road	Kildonan Road to NS2B-LDN033.2	**10**	**10**	**10**	**11**	**8**
	NS2B-LDN033.2 to NS2B-LDN035.6	**6**	**6**	**8**	**9**	**5**
Fosters Road	Cunningham Highway to Fosters Road	**21**	**14**	0	0	0
Georges Lane	B2G-LDN000.9 to Yelarbon Kurumbul Road	**8**	**5**	**5**	**6**	**5**
Grays Road	Millmerran-Inglewood Road to Mosquito Creek Road	0	**13**	0	0	0
McDougalls Road	B2G-LDN049.8 to McDougalls Road	**13**	**13**	**8**	**12**	**7**
	McDougalls Road to Cunningham Highway	**13**	**13**	**8**	**12**	**7**
Mooroobie Lane	Mooroobie Lane to Mooroobie Lane borrow pit	0	**11**	0	0	0
Mosquito Creek Road	Mosquito Creek Road borrow pit site to Grays Road	0	**13**	0	0	0
Queen Street South	Yelarbon Kurumbul to B2G-LDN016.0	**12**	**7**	**12**	**10**	**7**
South Kurumbul Road	Kildonan Road to Yelarbon Kurumbul Road	3	1	3	**4**	0
Springborg Road	Cunningham Highway to B2G-LDN037.6	**11**	**8**	**11**	**10**	**7**
Suttons Road	B2G-LDN030.0 to Access Track (off Suttons Road)	**19**	**20**	0	0	0
Thornton Road	B2G-LDN069.0 to B2G-LDN067.6	**8**	**8**	**6**	**8**	**5**
	B2G-LDN067.6 to Millmerran-Inglewood Road	**20**	**15**	**7**	**8**	**5**
Whetstone Access	B2G-LDN044.5 to Cunningham Highway	**15**	**16**	**14**	**15**	**13**
Wondalli Kurumbul Road	Yelarbon Kurumbul Road to Mooroobie Lane	0	**12**	0	0	0
Wongavale Yugilbar Road	Millmerran-Inglewood Road to B2G-LDN081.0	**6**	**8**	**5**	**12**	**5**
Yelarbon Kurumbul Road	South Kurumbul Road to B2G-LDN006.3	**4**	3	**4**	**5**	2
	B2G-LDN006.3 to Wondalli Kurumbul Road	**4**	**9**	**5**	**6**	3

Road name (ID)	Road segment detail	Predicted increase in $L_{A10(1hour)}$ road traffic noise level with construction traffic (dBA)				
		Year 1	Year 2	Year 3	Year 4	Year 5
	Wondalli Kurumbul Road to Yelarbon Kurumbul Road	**4**	3	**5**	**6**	3
	Yelarbon Kurumbul Road to B2G-LDN020.3	**7**	**4**	**7**	**7**	**4**
	B2G-LDN020.3 to B2G-LDN025.9	**8**	**6**	**10**	**9**	**6**
	B2G-LDN025.9 to Cunningham Highway	**10**	**12**	**11**	**10**	**7**
Boggabilla Weir Access	River Road to Boggabilla Weir	**9**	**7**	**4**	2	0
River Road	Newell Highway to Boggabilla Weir Access	**9**	**7**	**4**	2	0
Athol School Road	B2G-LDN187.8 to B2G-LDN188	**12**	**9**	1	0	0
	B2G-LDN188.2 to Gore Highway	**12**	**9**	2	2	1
Biddeston Southbrook Rd	Gore Highway to B2G-LDN183.8	1	**8**	**7**	1	1
Blackwell Road	Gore Highway to Millmerran Quarry	0	0	0	**8**	3
	Millmerran Quarry to B2G-LDN120.2	0	0	0	**11**	**4**
	B2G-LDN120.2 to Millmerran-Inglewood Road	**10**	**12**	**12**	**18**	**11**
Bligh Street	Six Mile Road to Boral Concrete Millmerran	0	**6**	**6**	**5**	0
Brimblecombe Road	Toowoomba-Cecil Plains Road to Brimblecombe Road	3	**5**	**5**	3	2
	Brimblecombe Road to WL 194467R	1	**4**	**4**	1	0
Bushy Lane	B2G-LDN183.0 to Gore Highway	3	**6**	3	**4**	3
Chamberlain Road	Warrego Highway to B2G-LDN204.2	**5**	**5**	**6**	**6**	**5**
Commodore Peak Road	Scragg Road to Millmerran-Inglewood Road	**5**	**6**	**13**	**6**	**5**
Desmonds Lane	Yarranlea Road to B2G-LDN163.3	**7**	**7**	**9**	**5**	**5**
Dieckmann Road	B2G-LDN150.5 to Gore Highway	**7**	**19**	**13**	**10**	**7**

Road name (ID)	Road segment detail	Predicted increase in $L_{A10(1hour)}$ road traffic noise level with construction traffic (dBA)				
		Year 1	Year 2	Year 3	Year 4	Year 5
Draper Road	Steger Road to B2G-FBW206.9	**5**	**5**	**5**	**5**	**5**
Forestry Road	Access Track to Millmerran-Inglewood Road	0	**16**	0	0	0
	Millmerran-Inglewood Road to Earthworks Area 3B	0	**16**	0	0	0
Fysh Road	B2G-LDN147.1 to Gore Highway	3	3	3	**6**	3
Geitz Road	B2G-LDN179.0 to Linthorpe Valley Road	3	3	3	**7**	3
Gilgai Lane	B2G-LDN144.6 to Gore Highway	**5**	**6**	**7**	**8**	**5**
Hall Road	B2G-LDN139.0 to Gore Highway	**18**	**18**	**18**	**18**	**18**
Heckendorf Road	Heckendorf Road borrow pits to B2G-LDN116.0	0	**12**	**15**	0	0
	B2G-LDN116.0 to Millmerran-Inglewood Road	0	**12**	**15**	3	0
Holcim Toowoomba Access	Drayton Wellcamp Road to Holcim Toowoomba Quarry	0	0	0	**12**	1
Kahler Road	Murlaggan Road to B2G-LDN165.6	**7**	**7**	**7**	**8**	**7**
Kingsthorpe Haden Road	Kingsthorpe Haden Overpass to Warrego Highway	**4**	**4**	1	0	0
Kooroongarra Road	Millmerran-Inglewood Road to Commodore Mine	0	0	**20**	0	0
Leesons Road	Warrego Highway to Steger Road	3	**11**	3	**9**	3
	Steger Road to B2G-LDN206.3	**4**	**11**	**6**	**9**	**3**
Linthorpe Road	Gore Highway to B2G-LDN175.5	**17**	**19**	**11**	**8**	**4**
Linthorpe Valley Road	Geitz Road to Gore Highway	1	1	1	**4**	1
Millwood Road	Millmerran-Inglewood Road to B2G-LDN112.1	**5**	**13**	**12**	**8**	**5**
	B2G-LDN112.1 to Millwood Road	0	**13**	0	0	0
	Millwood Road to Kooroongarra Road	0	**19**	0	0	0

Road name (ID)	Road segment detail	Predicted increase in $L_{A10(1hour)}$ road traffic noise level with construction traffic (dBA)				
		Year 1	Year 2	Year 3	Year 4	Year 5
Moffatt Reserve Road	Millmerran-Inglewood Road to Millmerran Power Station	1	**4**	**4**	1	0
Murlaggan Road	B2G-LDN164.3 to Kahler Road	**7**	**7**	1	1	1
	Kahler Road to Gore Highway	**7**	**7**	1	2	1
Owens Scrub Road	B2G-LDN128.2 to B2G-LDN130.0	**6**	1	1	1	0
	B2G-LDN130.0 to Millmerran-Inglewood Road	**8**	**5**	1	1	1
Paint Mine Road	Gore Highway to B2G-LDN173.5	3	3	3	**4**	3
Paton Road	Millmerran-Inglewood Road to B2G-LDN104.5	**7**	**7**	**7**	**11**	**7**
Quarry Road Access	Tummaville Road to Quarry	0	**19**	0	**13**	**6**
Schwarten Road	Millmerran-Inglewood Road to B2G-LDN126.9	**7**	**8**	**8**	**7**	**7**
Scragg Road	Commodore Peak Road to B2G-LDN123.6	**7**	**7**	**15**	**7**	**7**
Scrubby Road	Bland Quarry Pittsworth to Gore Highway	0	**15**	**15**	**4**	0
Tummaville Road	Access Track to Gore Highway	0	**8**	0	3	1
Turallin Road	Gore Highway to Miscellaneous Site Facility	**8**	**8**	**8**	**8**	**8**
West Street	Florence Street to Six Mile Road	0	**6**	**6**	**5**	0
Yarranlea Road	Gore Highway to B2G-LDN161.0	3	**19**	**18**	**5**	3

6.1.5 Sleep disturbance impacts

6.1.5.1 Construction noise

The CoP Vol 2 recognises that sleep disturbance can potentially result from exposure (of sensitive receptors) to excessive levels of noise and vibration. The CoP Vol 2 does not provide construction noise criteria that specifically aims to preserve sleep but rather the noise criteria are primarily aimed at dealing with nuisance. Where the CoP Vol 2 criteria are exceeded, the requirement of all reasonable and practicable noise mitigation and management measures is triggered. Such measures may include the offer of respite periods, alternative accommodation and architectural treatments, which are discussed in further detail in **Section 7.0**.

6.1.5.2 Construction vibration

Regarding sleep disturbance potentially resulting from construction vibration, it is difficult to define the level of vibration that would disturb sleep at night, as there is not a significant body of research that specifically investigates this issue. In practice, vibration in buildings that is considered to be disturbing is often perceived as structure-borne regenerated noise, noise generated by rattling objects or through visual cues such as movement of wall hangings, rather than through tactile perception only. Often it is these effects that may make falling asleep difficult rather than actually disturbing a person out of a sleep state.

Nevertheless, it is important to make an estimate of the threshold of vibration levels that may produce effects that disturb sleep, to identify areas of the Project where specific attention may need to be directed in respect of night-time vibration.

SLR has previously applied a vibration guide level of 0.5 mm/s (PPV) on major transport construction projects in Queensland. This guide level has been based on consideration of:

- Vibration levels commonly associated with the on-set of movement and rattling of building contents.
- Vibration guide values based on human perception nominated in Australian Standard AS 2670.2-1990 *Evaluation of human exposure to whole-body vibration Part 2: Continuous and shock-induced vibration in buildings (1 to 80 Hz)* (AS 2670.2), and the qualitative perception scale for continuous vibration outlined in German Standard DIN 4150-2 (1990-06) *Structural vibration – Part 2: Human exposure to vibration in buildings* (DIN 4150-2).

Similar to the approach to managing sleep disturbance from construction noise, it is considered that adherence to the CoP Vol 2 Non-Standard hours lower vibration limit of 0.3 mm/s PPV would minimise sleep disturbance impacts from the Project.

The actual night-time response of individuals to vibration is difficult to predict and is usually altered by their level of understanding of the causes of vibration and the likely (or unlikely) effects, and their awareness of the construction methods and timeframe. Some people may be comfortable with much higher levels of night vibration than the 0.3 mm/s. It is important therefore that community engagement and education is conducted before vibration intensive Project works are carried out in proximity to sensitive receptors.

7.0 Construction noise and vibration mitigation

7.1 Approach to managing construction noise and vibration

Project works will be designed, planned and implemented in a manner that maintains human health, ensures a suitable acoustic environment and avoids vibration related structural damage to all properties. Noise and vibration from construction activities will be managed consistent with the requirements of the CoP Vol 2. Noise and vibration from road traffic will be managed consistent with the approach and criteria from the CoP Vol 1 (refer to **Section 8.0** for further details).

The management of noise and vibration during construction will be administered by a NVMP as a component of the CEMP to provide the structured approach to the management of noise and vibration issues with the objective of supporting delivery of the Project in a manner that maintains human health and wellbeing by ensuring a suitable acoustic environment. The NVMP will define the processes, responsibilities and all reasonable and practicable management measures that will be implemented during construction. The CEMP will be developed by the Proponent (ARTC) and their nominated contractor/s and endorsed by the Environmental Monitor consistent with Conditions of Approval and all relevant laws, prior to the commencement of any relevant Project works.

The NVMP will present updated assessments of noise and vibration based on the construction work programs and verify the findings of this assessment. The NVMP will address the predicted noise and vibration emissions based on the finalised construction work programs and the location specific works planned along the Project. The NVMP will demonstrate the management of noise and vibration from construction work activities consistent with the requirements of the CoP Vol 2 and other applicable legislative and Project requirements including details of monitoring during construction works to inform the management of potential impacts and confirm the application of reasonable and practicable noise and vibration management measures.

All Project construction activities, including pre-construction and early works will be managed in accordance with the NVMP which will include:

- Construction noise and vibration criteria
- Construction activities including plant and equipment
- Time periods of construction activity
- Locations of construction activity
- Reasonable and practicable mitigation and management measures for both Standard hours and, where required, Non-Standard hours work
- Community liaison requirements and complaint procedures

Mitigation measures required for construction to achieve the environmental outcomes, will be implemented in consultation with affected stakeholders and will be in place ahead of and during the Project works. The performance of the Project works will be monitored and actively managed, in accordance with the noise and vibration management plan, with periodic reporting available.

The NVMP will include the community notification process to advise of significant works with potential for noise nuisance or vibration at sensitive receptors and surrounding residences/premises. Details will be provided on the locations and procedures for pre and post-condition surveys and noise and vibration measurements in response to validated complaints. Sensitive receptors will be consulted regarding predicted noise and vibration construction impacts including advance notification with details including expected dates and durations of construction activities that may result on noise and vibration being experienced within local communities.

Noise and vibration will be monitored during construction works to inform the management of potential impacts and confirm the application of reasonable and practicable noise and vibration management measures.

Works that have a minimal risk of noise and vibration impacts provide an opportunity to work outside the standard hours and benefit local communities and landowners by completing the works in a reduced timeframe.

7.2 Work practices and mitigation measures

7.2.1 Standard work practices

Standard work practices listed in **Table 7-1** shall be included in the NVMP and applied to all works conducted by the construction contractor at all times (i.e. Standard and Non-Standard hours), to minimise potential noise and vibration impacts at surrounding sensitive receptors.

Table 7-1 Standard work practices

Item	Description
Construction Hours	With the exception of works for which Standard Hours construction works are not feasible or safe (refer to **Section 2.2.2** for further details), works will be carried out within Standard Hours. This needs to be balanced against Project schedules/ requirements. Where construction works are required during Non-Standard hours, procedures to minimise the impact of any significant noise and/ or vibration works will be prepared and followed. Works close to schools will be staged where practicable, to conduct work outside of school hours or during school holidays.
Stakeholder engagement	Good stakeholder engagement is a key component for the management of potential impacts from construction impacts. Further details regarding stakeholder engagement are provided in **Section 7.2.4**.
Regular reinforcement	Regular reinforcement (such as at toolbox talks) of the need to minimise noise and vibration impacts.
Deliveries	Deliveries (aside from those reference in **Section 2.2.2**) will be carried out generally within the Standard hours. Loading and unloading will be carried out as far as possible away from sensitive receptors.
Quietest Suitable Equipment	Plant and equipment will be selected to minimise noise emission, in-so-far-as possible whilst maintaining efficiency of function. Residential grade mufflers will be fitted, and all noise control equipment will be maintained in good working order. Trucks will avoid use of engine brakes on site.

Item	Description
Truck noise (off site)	Trucks will not be allowed to queue up outside residential areas prior to the approved hours start time. All trucks regularly used for the Project (e.g. body trucks, asphalt trucks) are to have mufflers and any other noise control equipment in good working order. Trucking routes will use main roads where feasible.
Clustering	Clustering of equipment within fleets will be minimised wherever practical. Clustering of fleets (e.g. earthworks fleets and pavement fleets) will also be minimised wherever feasible.
Rock breaker noise	The emphasis of managing impacts from this activity generally involves minimising the duration to complete the works (relative to a particular receptor) in addition to ensuring that the community has been thoroughly informed of the works in advance. Implement respite periods involving scheduling work during periods when people are least affected to minimise exposure Minimise the duration of the rock breaking construction activities by increasing the number of rock breakers used at one given time and location. For example, doubling the number of rock breakers operating concurrently in the same work spot would result in a marginal increase in the noise levels (in the order of up to 3 dBA) but would reduce the duration of the works.
Site layout and site access	Where possible, plant will be located/orientated to direct noise away from sensitive receptors. Materials and stockpiles are to be used to increase acoustic shielding, where feasible. If required, site access roads will be located as far as practicable away from noise sensitive areas. Insofar as is possible, site layouts will be designed to minimise the need for vehicles to reverse.
Reversing alarms	Mobile plant and trucks operating on site for a significant portion of the project will have tonal reversing alarm noise emissions minimised or replaced with squawker alarms where practicable, recognising the need to maintain occupational safety. Where possible, drive-on/drive-off arrangements for trucks will be used, eliminating the need for reversing alarms to be used.
Fixed plant	Acoustically significant fixed plant required for the project (i.e. Whetstone MDC, concrete batch plants and accommodation camps) have been assessed for compliance against the CoP Vol 2 as part of this assessment. These sites will be subject to further investigation during the detailed design stage.
PA systems, radios and stereos	No public address systems will be used for this Project. Avoid the use of radios or stereos outdoors where neighbours can be affected.
Noise Monitoring	Noise monitoring may be carried out at nearest affected residences during construction. Regular noise compliance checks of equipment will also be made.
Vibration Monitoring	Vibration monitoring shall be carried out where vibration intensive activities (e.g. vibratory compaction and rock breaking) are required to be carried out within the established safe working distances, or where there is a risk that levels may exceed the relevant structural damage criteria.
Vibration intensive works	Maintain the vibration safe working distances presented in **Section 6.1.2** whilst operating vibration intensive plant and equipment. Where vibration levels are predicted to approach the criteria for cosmetic building damage

Item	Description
	or limits for critical or sensitive areas, attended vibration measurements shall be undertaken at the commencement of vibration generating activities to confirm that vibration limits are within the acceptable range.
Blasting	Where vibration and overpressure from blasting or construction activities are predicted to approach the relevant limits, dilapidation surveys on potentially affected buildings shall be undertaken.
Building condition survey	Building condition surveys to be undertaken at sensitive receptor buildings located within the safe working distances outlined in Table 6-13.
Training	Site inductions for all employees and contractors will be undertaken and will address: • Environmental aspects and impacts • Proposal specific and standard noise management measures • Licence and approval conditions • Hours of work • Environmental incident reporting and management procedures • Complaint management Daily site-specific briefings for all employees and contractors will include: • Site specific noise management measures • Location of nearest noise sensitive receivers • Construction employee parking areas • Behavioural practices (e.g. avoid swearing, shouting, dropping materials from heights) • Designated loading/unloading areas and procedures

7.2.2 Reasonable and practicable measures

Further to the work practices detailed in **Table 7-1**, additional reasonable and practicable mitigation and management measures will be required to all works conducted by the contractor where noise and/ or vibration levels are predicted to exceed the CoP Vol 2 limits. These reasonable and practicable measures, which will be included in the NVMP, are detailed in **Table 7-2**. The measures in **Table 7-2** acknowledge that some Project construction works may need to be undertaken outside of the CoP Vol 2 Standard hours and include particular measures to address impacts during Non-Standard hours.

Table 7-2 Reasonable and practicable mitigation and management measures

Site or tasks	Mitigation and management measures
Establishment of laydown areas	• Limiting the number of dump trucks and graders (actual numbers to be confirmed during detailed design) • Selection of quietest available dump trucks or use of noise source controls, such as the use of residential class mufflers. Limiting the number of equipment and using noise source controls can achieve reductions in noise levels in the order of 5 to 10 dBA. • Advance stakeholder engagement and ongoing regular communications on the activities and progress of the works shall be provided to the community (e.g. via newsletter, email and/or website)

Site or tasks	Mitigation and management measures
Accommodation camps	Construction and operation of the temporary accommodation camps are predicted to comply with the CoP Vol 2, therefore no mitigation measures are required at this stage. Nonetheless, the accommodation camps will be further assessed during the detailed design stage and reasonable and practicable mitigation measures developed if required.
Temporary concrete batch plants	Given the preliminary stage of the design of the concrete batch plant, further assessment during the detailed design stage is required to confirm compliance or otherwise with the CoP Vol 2 and allow for reasonable and practicable mitigation measures to be incorporated into the design. Reasonable and practicable mitigation measures may include selection of quieter plant, careful design/ layout of the site to direct noise away from sensitive receptors, acoustic screening of elevated components, shielding provided by other site structures (e.g. offices, crib rooms, toilet blocks etc).
Whetstone MDC	• Plant selection and acoustic design to limit the noise from the sand blasting activity to no more than 125 dBA SWL. Acoustic design options could include the addition of acoustic screening to the specific item of plant associated with the sand blasting activity and adding attenuators to fan inlets, outlets or treatment to duct work. • Plant selection to limit the noise from the electric conveyor motors to no more than 101 dBA SWL. If more than 10 conveyor motors are needed, then a reduced SWL for each unit may be required.
Borrow pits	Operation of the D10 dozer during site establishment, rock hammering and/or crushing and screening activities required at the Taits Red Ridge and Heckendorf Road (south-east) borrow pits be restricted to Standard Hours.

Earthworks	• Earthworks to be completed during Standard hours unless monitoring demonstrates compliance with the CoP Vol 2 Non-Standard hours limit or where works are required as per the requirements detailed in **Section 2.2.2**.
	• Using the quietest available equipment to complete the works.
	• Locating the loudest equipment as far as practicable from sensitive receptors. As an example, felled trees can be transported to mulchers.
	• Locating noisy equipment behind objects (e.g. stockpiles, sheds, temporary barriers) to provide shielding.
	• Provision of respite periods or preferred noise intensive periods.
	• Consideration of the following where the application of all reasonable and practicable mitigation measures (including respite periods) is deemed to be ineffective:
	  o Property treatments where longer-term impacts (i.e. >6 months) associated with the Project are identified.
	  o Temporary (short-term) alternative accommodation for the duration of impact.
	• preparation works prior to blasting are expected to primarily take place during Standard hours, however, may also be undertaken during Non-Standard hours where compliance with the CoP Vol 2 can be demonstrated

Site or tasks	Mitigation and management measures
Drainage	• Where available, equipment selection will favour the use of quieter and less vibration emitting construction methods. • Avoid the simultaneous operation of noisy plant within discernible range of noise sensitive receptors where possible. • Advance notification of the works to all stakeholders and regular communications on the activities and progress of the works.
Bridge construction	• Conducting community consultation with all sensitive receptors predicted to exceed the noise limits in advance of the works occurring at each bridge site. It is important that the discussion of reasonable and practicable mitigation measures with affected parties consider the overall duration of bridge construction works and exposure of noise levels at any individual receptor. • Use of the quietest available equipment to undertake the works particularly during Non-Standard hours works. • Locating of noisy equipment to maximise shielding in the direction of sensitive receptors (e.g. adjacent to bridge abutments or embankments, within cuttings etc). • Acoustic screening around the driven piling rigs. Commercially available acoustic screens can provide as much as 15 dBA reduction in noise emission.
Rail civil	• Conducting community consultation with all sensitive receptors predicted to exceed the noise limits in advance of the works occurring clearly communicating the expected duration of the rail civil works. • Use of the quietest available equipment to undertake the works particularly during Non-Standard hours works.
Road civil	• Conducting community consultation with all sensitive receptors predicted to exceed the noise limits in advance of the works occurring clearly communicating the expected duration of the rail civil works. • Use of the quietest available equipment to undertake the works particularly during Non-Standard hours works.

7.2.3 Additional management measures

When construction noise and vibration levels are predicted to exceed the CoP Vol 2 noise and/ or vibration limits during Non-Standard hours with all reasonable and practicable mitigation and management measures applied, the contractor shall implement additional management measures commensurate with the impacts. Guidance on applying these additional measures is provided in **Table 7-3** and **Table 7-4**, however it is expected that these will be refined during the detail design stage of the Project to ensure any such measures are adapted to suit community expectations.

7.2.3.1 Communication (CO)

The level of noise and vibration impact and duration shall guide communication with receptors by the contractor. Accurate and timely communication is essential to manage and understand community expectations for Non-Standard hours construction work.

Two categories of communication have been developed commensurate with the scale of the impact. The purpose of the communication is described below, but the method of

communication will be at the discretion of the contractor and detailed in the Contractor's Communications and Stakeholder Management Plan. It is intended that these measures will compliment, and be referred to, in all relevant Communications and Stakeholder Management Plans to achieve the engagement outcomes described below.

- Category 1 CO1: Communication to provide information on the Non-Standard hours work via methods such as letter box drop, email, newsletter, media advertisements and/ or website prior to the works commencing.
- Category 2 CO2: Communication should be personalised (e.g. door knock, meeting, telephone call). Contact with these residents should commence early to enable feedback to be considered by the proposal.

At minimum the information provided to stakeholders (CO1 or CO2) will include:

- The reason the works are required to be undertaken in Non-Standard hours.
- A diagram that identifies the location of the proposed works in relation to nearby cross streets and local landmarks.
- The nature, scope and duration of the works, including start and finish times.
- The expected noise impacts on receptors.
- Information on how to obtain further information or make a complaint, including an after-hours number and Inland Rail Program website.

7.2.3.2 Respite offer (RO)

Residential receptors subject to lengthy periods of noise or vibration may be eligible for respite offers for the purpose of providing residents with respite from an ongoing impact.

Respite can be provided by limiting high noise generating works and allowing at least a one-hour respite period between blocks of work. Where possible, the timing of this respite should be discussed with the impacted community.

Respite offers are not applicable to non-residential receptors.

7.2.3.3 Alternate accommodation (AA)

Alternate accommodation options (i.e. accommodation in motels away from the worksite) may be provided for impacted residents living in close proximity to construction sites.

Acceptable accommodation measures shall be developed by the contractor for the affected community and be approved by an Inland Rail representative prior to discussion with the resident.

7.2.3.4 Agreements with owners (AO)

ARTC may negotiate agreements with residents impacted during the construction period. All negotiated agreements with owners and occupiers of sensitive land uses must be in writing, and include the hours, duration and likely noise levels compared to the CoP Vol 2 limits. The negotiated agreement must be agreed and finalised before the commencement of work affecting the sensitive land uses.

Table 7-3 Additional management measures - Noise

Time period		Exceedance of CoP Vol 2 Noise Limit (dB)	Perception	Duration	Additional management measure
Non-Standard hours – day/ evening	Mon – Fri 6:00 pm to 10:00 pm Sat 7:00 am to 8:00 am Sat 1:00 pm to 10:00 pm Sun 7:00 am to 10:00 pm	<5	Noticeable	Any	CO1
		5-15	Clearly audible	Any	CO1
		16-25	Moderately intrusive	Any	CO1, CO2
		>25	Highly intrusive	Any	CO1, CO2
				>2 consecutive periods	CO1, CO2, RO
Non-Standard hours - Night	Mon – Sun 10:00 pm to 7:00 am	<5	Noticeable	Any	CO1
		5-15	Clearly audible	Any	CO1
		16-25	Moderately intrusive	Any	CO1, CO2
				>2 consecutive sleep periods	CO1, CO2, RO, AO
		>25	Highly intrusive	Any	CO1, CO2, RO
				>2 consecutive sleep periods	CO1, CO2, RO, AO, AA

Table 7-4 Additional management measures - Vibration

Time period		Duration	Exceedance of Lower Limit	Exceedance of Upper Limit
Non-Standard hours – day/ evening	Mon – Fri 6:00 pm to 10:00 pm Sat 7:00 am to 8:00 am Sat 1:00 pm to 10:00 pm Sun 7:00 am to 10:00 pm	Any	CO1, CO2	CO1, CO2, RO
Non-Standard hours - Night	Mon – Sun 10:00 pm to 7:00 am	Any	CO1, CO2, RO	CO1, CO2, RO, AA

7.2.4 Complaint handling and community engagement

The Community Stakeholder Environmental Management Plan (CSEMP) will be one of the five plans developed under the Social Impact Management Plan (SIMP). As the Project transitions through to construction, a comprehensive stakeholder engagement program will be developed, in line with commitments made in the draft OEMP and the SIMP to support two-way communication with all stakeholders impacted by the Project's construction.

Commitments within the CSEMP include:

- ARTC will establish and implement a complaints and enquiries process, which is consistent with ARTC's Complaints Management Handling Procedure
- Receiving and resolving stakeholder concerns, feedback and enquiries and Complaints and issues

7.2.5 Monitoring and auditing

7.2.5.1 Noise and vibration monitoring

Compliance noise and vibration monitoring shall be undertaken in accordance with the requirements to be detailed within the NVMP. Construction noise and/or vibration measurements shall be undertaken as per the methods and standards required by the CoP Vol 2.

7.2.5.2 Condition surveys

If construction activities have potential to cause cosmetic or structural damage through vibration or overpressure to buildings (or their contents), structures and public utilities an existing condition report shall be undertaken by the contractor in accordance with AS 4349.0 - 2007 *Inspection of buildings – General requirements*.

7.2.5.3 Auditing

Periodic audits by the contractor shall be undertaken of construction activities in relation to the content within this Framework along with the contractor's appropriate implementation of the NVMP to ensure noise and vibration predictions are accurate and the required management measures are in place. ARTC may elect to join such audits. The contractor's CEMP and NVMP shall prescribe the auditing regime for the Project.

7.2.6 Residual construction noise impacts

There is potential for noise intensive construction works undertaken close to sensitive receptors to result in impacts even where reasonable and practicable mitigation and management are implemented. The potential for residual impacts is reduced for construction since noise emissions are temporary and will cease once nearby construction is complete.

With consideration of the reasonable and practicable mitigation measures presented in **Table 7-2** and guidance from AS2436 regarding the typical effectiveness of noise control measures, an assessment of the potential for residual noise impacts to residential receptors during Non-Standard hours is summarised in **Table 7-5**. The potential for residual impacts associated with Scenario 5 (Whetstone MDC) and Scenario 6 (borrow pits) are addressed in **Section 6.1.1.5** and **Section 6.1.1.6** respectively and therefore are excluded from **Table 7-5**.

The results in **Table 7-5** indicate that the number of residential receptors predicted to experience Project construction noise levels that exceed the Non-Standard hours noise limit can be significantly reduced with the implementation of effective mitigation measures.

For the 10 dBA noise reduction scenario presented in **Table 7-5**, the range in residual noise limit exceedances which is used to inform the additional management requirements (as outlined in **Table 7-3**) are summarised in **Table 7-6**.

As indicated in **Table 7-6**, the earthworks and road civil construction scenarios are predicted to result in the most residual impacts. 16 residential receptors are predicted to experience residual noise levels that exceed the 45 dBA Non-Standard hours noise limit by more than 25 dB during road civil construction works. This is attributed to the proximity of the road civil works to residential receptors and consequently residual impacts will be managed in accordance with the additional management measure requirements detailed in **Table 7-3**.

Regarding the potential for residual impacts, Inland Rail is committed to achieving compliance with the CoP Vol 2, insofar as reasonable and practicable, involving a range of management approaches and mitigations with demonstrated effectiveness, and corrective action based on a complaints system and consultation.

Table 7-5 Summary of residual noise impacts for residential receptors – Non-Standard hours

Level of noise mitigation	Number of residential receptors predicted to exceed the 45 dBA $L_{Aeq,adj,15min}$ Non-Standard hours construction noise limit								
	Scenario 1 laydown	Scenario 2 camp construction	Scenario 3 camp operation	Scenario 4 concrete batching	Scenario 7a earthworks	Scenario 7b earthworks restricted	Scenario 8 earthworks cut & fill	Scenario 9 earthworks blasting	Scenario 10 drainage
Standard work practices	562	0	0	2	770	570	881	48	436
5 dBA [1]	286	0	0	0	510	347	576	22	262
10 dBA [1]	119	0	0	0	318	195	357	15	158
15 dBA [2]	49	0	0	0	177	101	198	6	80
	Scenario 11a structures bored piling	Scenario 11b structures driven piling	Scenario 12 structures pier construction	Scenario 13 structures deck construction	Scenario 14 rail civil bottom ballast	Scenario 15 rail civil sleeper & rail install	Scenario 16 rail civil tamping & regulation	Scenario 17 road civil road base	Scenario 18 road civil asphalt
Standard work practices	352	509	230	35	580	341	693	443	398
5 dBA [1]	157	244	76	8	361	189	451	304	261
10 dBA [1]	36	82	19	3	200	98	287	188	160
15 dBA [2]	7	17	5	0	104	45	148	110	97

Note 1: Based on the normal range of nominal noise reduction achieved by screening or silencing as stated in Table C3 of AS 2436.

Note 2: Based on the maximum level of nominal noise reduction achieved by screening as stated in Table C3 of AS 2436.

Table 7-6 Summary of range of residual noise limit exceedances based on the SMM 10 dBA noise attenuation scenario

Exceedance of CoP Vol 2 Noise Limit (dB)	Number of residential receptors predicted to exceed the 45 dBA $L_{Aeq,adj,15min}$ Non-Standard hours construction noise limit								
	Scenario 1 laydown	Scenario 2 camp construction	Scenario 3 camp operation	Scenario 4 concrete batching	Scenario 7a earthworks	Scenario 7b earthworks restricted	Scenario 8 earthworks cut & fill	Scenario 9 earthworks blasting	Scenario 10 drainage
<5	70	0	0	0	141	94	159	9	78
5-15	46	0	0	0	138	79	148	6	61
16-25	3	0	0	0	34	18	43	0	16
>25	0	0	0	0	5	4	7	0	3
	Scenario 11a structures bored piling	Scenario 11b structures driven piling	Scenario 12 structures pier construction	Scenario 13 structures deck construction	Scenario 14 rail civil bottom ballast	Scenario 15 rail civil sleeper & rail install	Scenario 16 rail civil tamping & regulation	Scenario 17 road civil road base	Scenario 18 road civil asphalt
<5	29	65	14	3	96	53	139	78	63
5-15	7	16	5	0	88	41	128	65	59
16-25	0	1	0	0	13	4	18	29	24
>25	0	0	0	0	3	0	2	16	14

8.0 Operational road traffic noise assessment

8.1 Screening assessment

8.1.1 Overview

The screening assessment methodology adopted for the assessment of operational road traffic noise mirrors the approach used to assess construction road traffic noise impacts discussed in **Section 4.3.4**. In addition to employing the CoRTN calculation algorithm, the following conservative assumptions were applied to the screening assessment:

- The shortest separation distance between the road segment and the nearest sensitive receptor was identified representing the receptor likely to be most impacted (i.e. worst-case).
- A road surface type correction of +3 dBA was applied to the new, upgraded, and existing road segments, to reflect the 5-14 Bituminous Seal pavement type to be reinstated on these sections of modified roads.
- A verification correction of +2 dBA was applied to the noise levels, which represents the maximum allowable adjustment following the model verification process.
- A ground absorption coefficient of 0.5 for the areas separating the road and the nearest sensitive receptor; suggesting that only 50% of this area is soft ground (e.g. vegetated). Conversely, the study area is generally rural or agricultural used land approaching 100% vegetation.
- The most stringent noise criterion has been applied; comprising the 60 dBA $L_{A10(18hour)}$ noise criterion for residences close to new road segments.

A full list of modelling assumptions is provided in **Appendix G**. A summary of the screening assessment findings is provided in the **Section 8.1.2**.

8.1.2 Screening assessment results

The operational road traffic noise levels have been predicted for the year 2038, that is 10 years after the completion of construction of the Project in 2028, with the findings for New Roads and Upgrading Existing Roads discussed separately in **Sections 8.1.2.1** and **8.1.2.2**, respectively. It should be noted that the Project construction schedule assumed for the purposes of this assessment has been based on information available at the time of assessment and are subject to change. The assumptions made regarding construction schedules are considered suitably conservative and appropriate for the purposes of EIS impact assessment and any changes unlikely to alter the outcomes and conclusions presented in the EIS.

State-controlled roads have been identified with the Road ID prefix of “SC”. All other road segments are local Council-controlled (i.e. non-State controlled “NSC”) roads.

8.1.2.1 New roads

A summary of the predicted 2038 facade corrected $L_{A10(18hour)}$ at the nearest sensitive receptor for each new road section is presented in **Table 8-1**. As all the most exposed receptors to the respective road section comprise residential buildings (i.e. receptors most likely to exceed the criteria), the assessment has only been carried out against the 60 dBA $L_{A10(18hour)}$ noise criterion for residences.

A detailed table of predictions, including additional modelling parameters is presented in **Appendix G**.

Table 8-1 Road traffic noise screening assessment – new roads

Road ID	Road name	Chainage (km)	Distance to nearest receptor (m)	Predicted facade corrected $L_{A10(18hour)}$ road traffic noise level (dBA)	Complies with 60 dBA $L_{A10(18hour)}$ criterion?	Notes
NSC02	Eukabilla Road	33200 [1]	1,200	32	Yes	--
NSC03	Georges Lane	3.6	1,750	29	Yes	--
NSC05	Yelarbon-Kurumbul Rd	8.6	130	42	Yes	--
NSC06	Yelarbon-Kurumbul Rd	12.2	2,400	28	Yes	--
NSC07	Yelarbon-Kurumbul Rd	14.3	100	45	Yes	--
NSC08	Yelarbon-Kurumbul Rd	19.0	110	44	Yes	--
NSC09	Yelarbon-Kurumbul Rd	20.8	1,070	32	Yes	--
NSC10	Yelarbon-Kurumbul Rd	23.6	75	46	Yes	--
NSC11	Yelarbon-Kurumbul Rd	25.4	230	41	Yes	--
SC01	Cunningham Highway	25.4	30	69	No	Detailed assessment required
SC02	Wondalli Street	25.4	15	63	No	Detailed assessment required
NSC12	Railway Parade	25.2	50	32	Yes	--
NSC13	E of Sawmill Road	26.8	50	46	Yes	--
NSC14	Suttons Road	30.0	1,750	27	Yes	--
NSC31	Commodore Peak Rd	123.4	65	51	Yes	--
NSC33	Schwarten Road	126.3	200	31	Yes	--
NSC34	Owens Scrub Road	129.8	155	57	Yes	--
NSC35	Fysh Road	148.2	45	54	Yes	--
NSC36	Pampas Pit Road	148.2	70	41	Yes	--
NSC37	Elsden Road	151.2	380	35	Yes	--
NSC39	Saal Road	154.0	65	52	Yes	--
NSC42	Desmonds Lane	162.5	50	46	Yes	--
NSC44	Murlaggan Road South	165.0	180	37	Yes	--
NSC45	Murlaggan Road North	166.0	70	42	Yes	--
NSC46	French Road	170.0	135	47	Yes	--
NSC48	Quibet Road	172.2	45	45	Yes	--

Road ID	Road name	Chainage (km)	Distance to nearest receptor (m)	Predicted facade corrected $L_{A10(18hour)}$ road traffic noise level (dBA)	Complies with 60 dBA $L_{A10(18hour)}$ criterion?	Notes
NSC49	Lochaber Road	173.7	50	58	Yes	Within 2 dB of criterion – detailed assessment required
NSC50	McEwan Lane	173.8	90	29	Yes	--
NSC53	Bushy Lane	183.8	137	51	Yes	--
NSC54	Biddenston Southbrook Road	184.9	50	57	Yes	--
NSC55	Athol School Road	188.4	50	56	Yes	--

Note 1: North Star to Border section of Inland Rail.

As noted in **Table 8-1**, the road segments including the Cunningham Highway (SC01), Wondalli Street (SC02) and Lochaber Road (NSC49) trigger the requirement of further detailed assessment of operational road traffic noise levels.

28 out of the 31 assessed new roads are conservatively predicted to comply with the CoP Vol 1 criteria.

8.1.2.2 Upgrade of existing roads

A summary of the predicted 2038 facade corrected $L_{A10(18hour)}$ road traffic noise level at the nearest sensitive receptor for the remaining road segments is presented in **Table 8-2**. As all the most exposed receptors nearest to the respective road section comprise residential buildings, the assessment has only been carried out against the 68 dB(A) $L_{A10(18hour)}$ noise criterion for residences.

A detailed table of predictions, including additional modelling parameters is presented in **Appendix G**.

Table 8-2 Road traffic noise screening assessment – upgraded roads

Road ID	Road name	Chainage (km)	Distance to nearest receptor (m)	Predicted facade corrected $L_{A10(18hour)}$ road traffic noise level (dBA)	Complies with 68 dBA $L_{A10(18hour)}$ criterion?	Notes
NSC01	Kildonan Road	33.0 [1]	2,500	38	Yes	--
NSC04	Yelarbon-Kurumbul Rd	5.8	12	55	Yes	--

Road ID	Road name	Chainage (km)	Distance to nearest receptor (m)	Predicted facade corrected $L_{A10(18hour)}$ road traffic noise level (dBA)	Complies with 68 dBA $L_{A10(18hour)}$ criterion?	Notes
SC03	Cunningham Highway	26.6	90	64	Yes	Detailed assessment required as road is State-controlled and nearest dwelling is within 300 m.
NSC15	Springborg Road	37.6	1,200	28	Yes	--
NSC16	Whetstone Access Road	45.2	250	37	Yes	--
NSC17	Cremascos Road	54.4	130	52	Yes	--
NSC18	Bybera Road	60.6	815	35	Yes	--
NSC19	Schofields Boundary Road	65.8	1,200	27	Yes	--
NSC20	Thornton Road	68.6	1,550	24	Yes	--
SC04	Millmerran Inglewood Road	72.8	770	47	Yes	--
NSC21	Grays Road	78.2	1,000	32	Yes	--
NSC22	Wongavale Yugibar Rd	80.8	1,200	31	Yes	--
NSC23	Unnamed Road	91.8	4,700	36	Yes	--
NSC24	Forestry Road	96.0	750	16	Yes	--
NSC25	Kooroongarra Road	103.0	450	42	Yes	--
NSC26	Patons Koorongara Rd	105.8	900	25	Yes	--
NSC27	Nicol Creek Road	108.0	160	49	Yes	--
NSC28	Millwood Road	112.0	820	34	Yes	--
NSC29	Heckendorfs Road	116.4	340	40	Yes	--
NSC30	Blackwell Road	120.2	1,050	30	Yes	--
NSC32	Scraggs Road	123.8	60	52	Yes	--
SC05	Millmerran-Inglewood Road	127.0	150	59	Yes	Detailed assessment required as road is State-controlled and nearest dwelling is within 300 m.
SC06	Millmerran Leyburn Road	141.4	460	46	Yes	--

Road ID	Road name	Chainage (km)	Distance to nearest receptor (m)	Predicted facade corrected $L_{A10(18hour)}$ road traffic noise level (dBA)	Complies with 68 dBA $L_{A10(18hour)}$ criterion?	Notes
SC07	Gore Highway	148.1	90	69	No	Detailed assessment required
SC08	Gore Highway	151.2	120	68	Yes	Within 2 dB of criterion – detailed assessment required
NSC38	Mann Silo Road	153.4	50	53	Yes	--
SC09	Gore Highway	154.0	70	72	No	Detailed assessment required
NSC40	Longhurst Road	159.2	1,000	46	Yes	--
NSC41	Yarranlea Road	162.4	370	40	Yes	--
NSC43	Roche Road	164.5	260	39	Yes	--
NSC47	Tip Road	170.5	300	42	Yes	--
SC10	Oakley-Pittsworth Road	172.2	230	57	Yes	Detailed assessment required as road is State-controlled and nearest dwelling is within 300 m.
SC11	Gore Highway	173.4	70	72	No	Detailed assessment required
NSC51	Linthorpe Road	177.0	140	52	Yes	--
NSC52	Linthorpe Valley Road	184.6	150	49	Yes	--
SC12	Gore Highway	184.6	180	68	Yes	Within 2 dB of criterion – detailed assessment required
SC13	Toowoomba Cecil Plains Road	197.4	240	61	Yes	Detailed assessment required as road is State-controlled and nearest dwelling is within 300 m.
NSC56	Brimblecombe Road	200.0	290	47	Yes	--

Road ID	Road name	Chainage (km)	Distance to nearest receptor (m)	Predicted facade corrected $L_{A10(18hour)}$ road traffic noise level (dBA)	Complies with 68 dBA $L_{A10(18hour)}$ criterion?	Notes
SC14	Warrego Highway	204.3	75	75	No	Detailed assessment required
NSC57	Chamberlain Road	205.7	460	43	Yes	--
NSC58	Leesons Road	207.6	45	55	Yes	--

Note 1: North Star to Border section of Inland Rail.

As noted in **Table 8-2**, the road segments including the Cunningham Highway (SC03), Millmerran-Inglewood Road (SC05), Gore Highway (SC07, SC08, SC09, SC11), Oakley-Pittsworth Road (SC10), Toowoomba Cecil Plains Road (SC13) and Warrego Highway (SC14) trigger the requirement of further detailed assessment of operational road traffic noise levels.

31 out of the 41 assessed existing roads requiring upgrades are conservatively predicted to comply with the CoP Vol 1 criteria.

8.2 Detailed assessment

From the results of the road traffic noise screening assessment presented in **Section 8.1.2**, the following road segments have been identified as having potential to exceed the CoP Vol 1 road traffic noise criteria, thereby requiring a detailed assessment of road traffic noise levels:

- New roads:
  - SC01 Cunningham Hwy, chainage 25.4 km
  - SC02 Wondali Street, chainage 25.4 km
  - NSC49 Lochaber Road, chainage 173.7 km
- Upgrade to existing roads:
  - SC03 Cunningham Hwy, chainage 26.6 km
  - SC05 Millmerran Inglewood Road, chainage 127.0 km
  - SC07 Gore Highway, chainage 148.1 km
  - SC08 Gore Highway, chainage 151.2 km
  - SC09 Gore Highway, chainage 154.0 km
  - SC10 Oakley-Pittsworth Road, chainage 172.2 km
  - SC11 Gore Highway, chainage 173.4 km
  - SC12 Gore Highway, chainage 184.6 km
  - SC13 Toowoomba Cecil Planes Road, chainage 197.4 km
  - SC14 Warrego Highway, chainage 204.3 km.

8.2.1 Pre-construction road traffic noise measurements

In accordance with the CoP Vol 1, pre-construction road traffic noise measurements (which also included concurrent traffic counting and weather monitoring) were completed by the FFJV at representative residential receptors adjacent to the road segments listed above. The results of these measurements are discussed in **Section 5.6**.

These measurements were subsequently used to verify a road traffic noise model representing the measurement conditions. This is detailed further in **Section 8.2.2**.

8.2.2 SoundPLAN noise model verification

A 3-D SoundPLAN v8.2 road traffic noise model of the study area has been developed to calculate the Year 2020 (i.e. model validation year) and predict completion of construction of the Project (2028) and 10-year horizon (2038) road traffic noise levels.

Noise predictions were carried out utilising the Calculation of Road Traffic Noise 1988 (CoRTN) algorithm in SoundPLAN. The calculations account for the intervening topography, buildings, and noise barriers.

Verification of the SoundPLAN noise model is a method used for determining the accuracy of a road traffic noise model when compared against the noise measurements completed in accordance with the CoP Vol 1. A noise model is deemed to be verified if the overall average difference between the measured and calculated values of the noise descriptors is no more than ±2 dBA.

The operational road traffic noise model verification was completed as part of the detailed assessment based on the 2020 road traffic noise measurement results. The outcomes of the noise model verification are presented in **Table 8-3**. Detailed model verification inputs are provided in **Appendix H**.

Table 8-3 Road traffic noise model verification results

Site ID	Road name	Calculated $L_{A10(18hour)}$ road traffic noise level (dBA)	Measured $L_{A10(18hour)}$ road traffic noise level (dBA)	Difference (calculated – measured) (dBA)
MP1	Warrego Highway	54.3	53.3	+1.0
MP2	Toowoomba Cecil Plains Road	51.7	53.1	-1.4
MP3	Gore Highway	62.7	58.9	+3.8
MP4	Lochaber Road (Gore Highway)	60.1	59.3	+0.8
MP5	Quibet Road, Oakey Pittsworth Rd (Gore Highway)	65.6	65.1	+0.5
MP6	Brookstead Norwind Road (Gore Highway)	64.8	66.6	-1.8
MP7	Elsden Road (Gore Highway)	55.7	55.1	+0.6

Site ID	Road name	Calculated $L_{A10(18hour)}$ road traffic noise level (dBA)	Measured $L_{A10(18hour)}$ road traffic noise level (dBA)	Difference (calculated – measured) (dBA)
MP8	Gore Highway	63.5	63.9	-0.4
MP9	Millmerran Inglewood Road	53.6	52.5	+1.1
MP10	Kaboon Street (Cunningham Highway)	56.7	58.4	-1.7
MP11	Taloom Street (Cunningham Highway)	63.4	63.0	+0.4
MP12	Bengalla Street, Wondalli Street (Cunningham Highway)	53.7	52.0	+1.7

Considering the differences between the measured and calculated noise levels, the CoP Vol 1 requires the following:

- If the average difference between the model calculated noise level and the existing measured noise level is positive (i.e. the calculated noise level exceeds the average measured values), then no adjustment shall be made to the calculated values before determining the predicted road traffic noise levels.
- If the average difference between the model calculated noise level and the existing measured noise level is negative (i.e. the measured noise level exceeds the model calculated noise level), then the calculated values shall be adjusted upwards by this average difference before determining the predicted values.

Considering the above and the verification results summary in **Table 8-3**, the following is noted:

- Along the Gore Highway (represented by sites MP3 to MP8 inclusive), the average difference is positive at+0.6 dB. For other sites, their individual difference fell within the ±2 dB tolerance across all measurement locations. Accordingly, the preconstruction noise model is considered verified.
- For sites along the Gore Highway, since the average difference is positive (i.e. the model is conservative), no adjustment to the future predictions for Gore Highway applies in accordance with the CoP Vol 1. This also applies to MP1, MP9, MP11 and MP12, and their associated roads.
- The noise model however underpredicts the measured values at MP2 and MP10 by 1.4 dB and -1.7 dB, respectively. Accordingly, the future road traffic noise model for Toowoomba Cecil Plains Road and Cunningham Highway (southeast of Bengalla Street) were adjusted upwards by the difference for these road segments.

8.2.3 Predicted operational road traffic noise impacts

As noted in **Section 4.4**, the assessment of operational road traffic noise levels applies only to the sections of road modified or added by the Project and does not consider the predicted cumulative road traffic noise level (i.e. of all surrounding roads) where the surrounding roads do not contribute to the total noise level exposure at individual receptors.

For each of the assessment years, road traffic noise levels have been predicted for the following receptor categories:

- Residential receptors – upgrade roads and new roads
- Future residential receptors – upgrade roads and new roads
- Educational, community and health – upgrade roads and new roads
- Parks – upgrade roads and new roads

The assessment outcomes are summarised in the following sub-sections, outlining criteria exceedances where applicable. The predicted road traffic noise levels for each receptor are reported as the highest noise level calculated and the corresponding facade, as well as floor level. Tabulated noise prediction results without any additional noise treatment are presented in **Appendix I**.

Noise contour levels are also shown in **Appendix J**, which are generated from a large number of single point calculations within SoundPLAN. These single points are distributed in a grid with a 5 m spacing from which the contours are then interpolated.

Caution must be applied when interpreting the noise maps as they provide an interpolation of the predicted road traffic noise levels based on results calculated on a defined grid. The criteria assessment has been based on the noise levels predicted at 1.0 m from the building facade utilising facade noise map feature in SoundPLAN.

Further modelling and assessment is recommended in the detailed design phase of the project, once the final project design is known, to confirm the outcomes of this preliminary assessment.

8.2.3.1 Existing residences

A total of 111 residential receptors (110 residences plus Pittsworth Motor Inn) were included in the assessment area. Of these, ten receptors are predicted to be exposed to year 2038 road traffic noise levels exceeding the CoP Vol 1 noise criterion for Upgrading Existing Roads. The predicted noise impacts to residential receptors are summarised in **Table 8-4**.

There are no predicted exceedances of the CoP Vol 1 noise criteria for New Roads.

Table 8-4 Summary of predicted exceedances at dwellings – upgrading existing roads

Receptors	Year 2028 with existing mitigation		Year 2038 with existing mitigation	
	Number of predicted exceedances	Greatest magnitude of exceedance of 68 dBA $L_{A10(18hour)}$ criterion	Number of predicted exceedances	Greatest magnitude of exceedance of 68 dBA $L_{A10(18hour)}$ criterion
Ground floor receptors (GF)	8	4	9	5
First floor receptors (F1)	1	1	1	1

The predicted 2028 and 2038 $L_{A10(18hour)}$ noise levels are depicted on contour maps in **Appendix J**. The noise levels are tabulated in **Appendix I**. The road traffic noise levels reported for each building are representative of the most exposed facade on each floor level of the respective buildings.

No noise mitigation measures are warranted at these dwellings under CoP Vol 1. This is discussed in **Section 8.3**.

8.2.3.2 Educational and community buildings

A total of eight educational and community buildings were included in the assessment area. Of these, three receptors are predicted to be exposed to 2038 road traffic noise levels exceeding the CoP Vol 1 noise criterion for Upgrading Existing Roads, without the provision of noise mitigation measures. The predicted noise impacts to educational and community buildings are summarised in **Table 8-5**.

There are no predicted exceedances of the CoP Vol 1 noise criteria for New Roads.

Table 8-5 Summary of predicted exceedances at educational and community buildings – upgrading existing roads

Receptors	Year 2028 with existing mitigation		Year 2038 with existing mitigation	
	Number of predicted exceedances	Greatest magnitude of exceedance of 65 dBA $L_{A10(1hour)}$ criterion	Number of predicted exceedances	Greatest magnitude of exceedance of 65 dBA $L_{A10(1hour)}$ criterion
Ground floor receptors (GF)	3	9	3	10

Educational, community and medical buildings are assessed against an $L_{A10(1hour)}$ noise criterion. The predicted $L_{A10(1hour)}$ noise levels are determined by applying a correction to the predicted $L_{A10(18hour)}$ noise levels based on the nearest measured pre-construction noise levels.

Noise measurement results at the following sites have been used to derive an $L_{A10(1hour)}$ correction factor for nearby educational and community facilities based on the difference between the average measured $L_{A10(18hour)}$ and average daily maximum $L_{A10(1hour)}$ noise levels:

- MP6 (Brookstead State School) – +3.2 dB
- MP8 (Pampas Memorial Hall) – +3.7 dB
- MP10 (Yelarbon State School, Yelarbon Fire Station and Yelarbon Soldiers Memorial Hall) – +3.1 dB
- MP11 (Yelarbon State School, Yelarbon Fire Station and Yelarbon Soldiers Memorial Hall) – +4.2 dB

For educational and community receptors in Yelarbon, the higher of the two correction factors (MP11) has been applied.

The predicted 2028 and 2038 $L_{A10(1hour)}$ noise levels are depicted on contour maps in **Appendix J** and tabulated in **Appendix I**.

No noise mitigation measures are warranted at these receptors under CoP Vol 1. This is discussed in **Section 8.3**.

8.2.3.3 Outdoor educational areas

Outdoor educational and passive recreational areas are assessed against an $L_{A10(12hour)}$ noise criterion. Two outdoor educational receptors have been identified within the assessment area:

- Brookstead State School
- Yelarbon State School

The predicted $L_{A10(12hour)}$ noise levels are determined by applying a correction to the predicted $L_{A10(18hour)}$ noise levels based on the nearest measured pre-construction road traffic noise levels.

Noise measurement results at the following sites have been used to derive an $L_{A10(12hour)}$ correction factor for nearby outdoor educational and passive recreation receptors based on the difference between the average measured $L_{A10(18hour)}$ and $L_{A10(12hour)}$ noise levels:

- MP6 (Brookstead State School) – +0.0 dB
- MP10 (Yelarbon State School) – -0.5 dB
- MP11 (Yelarbon State School) – +1.3 dB

For Yelarbon State School, the higher of the two correction factors (MP11) has been applied.

In addition to the above correction factors, a +1 dB correction has been applied to adjust for free-field Queensland road conditions from the predicted facade-corrected $L_{A10(18hour)}$ noise levels (refer to **Appendix H**).

The CoP Vol 1 criterion of 63 dBA $L_{A10(12hour)}$ applies to a minimum of 2,000 m^2 (or the entire area, if less). The noise contour plots included in **Appendix J** show that both outdoor educational areas are predicted to comply with the 63 dBA $L_{A10(12hour)}$ criterion across their entire area. As such, no noise mitigation measures are required at Brookstead State School or Yelarbon State School.

8.3 Road traffic noise mitigation

8.3.1 Noise mitigation strategy

The road traffic noise levels from the Warrego Highway, Gore Highway and Cunningham Highway are predicted to exceed the nominated noise criterion at several receptors along the alignment, as summarised in **Section 8.2.3**. Accordingly, with guidance from the CoP Vol 1, noise mitigation measures have been considered for these sensitive receptors:

- Noise barriers, comprising an earth mound, noise fence, or combination of the two.
- At-property treatments (referred to as Exceptional Circumstances Treatments (ECT) in the CoP Vol 1), comprising the provision of mechanical ventilation, air-conditioning, and/or architectural upgrade treatments.
- Quieter road pavement surfaces.

The existing road surface type for the roads assessed for the Project is Bituminous Seal (5 to 14 mm aggregate). Existing road surfaces are being replaced “like-for-like” with the same road pavement type to be consistent with the road unaltered road sections. Accordingly, road surface characteristics are not anticipated to degrade the road traffic noise environment and road surface treatments have been excluded from the mitigation strategy.

The use and applicability of noise barriers as a form of noise treatment is discussed in **Section 8.3.2**. Similarly, the use and applicability of at-property treatments are discussed in **Section 8.3.3**.

8.3.2 Noise barriers

Noise barriers can be an effective method of controlling noise at sensitive receptors. A noise barrier is typically required to break the line of sight between the noise source and the receptor to provide a suitable level of noise attenuation.

In accordance with CoP Vol 1, provision of noise barriers is limited to access controlled sections of road where direct access has been effectively restricted by various means, for example, access to the road can only be achieved at an intersection.

None of the road segments for which there is a predicted exceedance of the road traffic noise criteria are access controlled and therefore these sensitive receptors on non-access controlled roads are deemed not to be eligible for noise barriers. As noted in the CoP Vol 1, providing noise barriers for noise attenuation along non-access controlled roads is not considered due to practicality or technical feasibility issues. With the existence of driveways directly accessing onto these roads, the effective use of noise barriers will be restricted due to the full angle of view not being adequately obstructed by the noise barrier.

8.3.3 At-property treatments

The CoP Vol 1 also notes that sensitive receptors on non-access controlled roads are deemed to not be eligible for at-property treatments (i.e. ECTs), therefore these receptors are also not eligible for at-property treatments.

As part of the detailed design stage of the Project, it is recommended that provision of at-property treatments for the road traffic noise impacted sensitive receptors be investigated on a case by case basis.

9.0 Cumulative impacts

A qualitative assessment of the potential for cumulative noise and vibration impacts during the construction phase of the Project has been completed as part of this assessment. Significant existing or approved future projects having potential to interact with the Project were reviewed from publicly available information sources. For the purposes of noise and vibration assessment, projects that directly interface with the Project and will have a temporary overlap in construction potentially resulting in cumulative impacts are detailed in **Table 9-1**.

A summary of the findings, including brief descriptions of the assessed projects, the nature of potential cumulative noise and vibration impact, impact significance, and potential mitigation measures is presented in **Table 9-2**. The qualitative impact significance assessment approach is further described in Chapter 4: Assessment Methodology of the revised draft EIS.

Table 9-1 Projects considered

Projects	Location	Description	Construction dates
InterLinkSQ	13 km west of Toowoomba The northern limit of the Project is situated adjacent to the InterLinkSQ site	A 200 hectare transport, logistics and business hub. Located on the narrow-gauge regional rail network and interstate network. Located at the junction of the Gore, Warrego, and New England highways.	Assumed construction would coincide with the Project.
Commodore Mine and Millmerran Power Station	Domville, Queensland The Project is aligned adjacent to potential future coal reserves for the mine	The Commodore Mine is an open cut coal mine which provides coal for the 850 MW Millmerran Power Station. The Millmerran Power Station is a coalfired power station that supplies enough electricity to power approximately 1.1 million homes.	Subject to annual maintenance shutdown and continual pit expansion. Also potential for coal reserves to be accessed beyond the current footprint
North Star to NSW/QLD Border (Inland Rail)	Rail alignment from North Star, NSW to the NSW/QLD border	New 37 km rail corridor to connect North Star (NSW) to the QR South West Rail Line just north of the NSW/QLD border.	Construction phase currently being determined
Gowrie to Helidon (Inland Rail)	Adjoins the Project at its southern limit	New 26 km dual gauge track between Gowrie (north-west of Toowoomba) and Helidon (east of Toowoomba), extending through the LGAs of Toowoomba and Lockyer Valley. The project includes a 6.38 km tunnel to create an efficient route through the steep terrain of the Toowoomba Range.	Construction phase currently being determined
Asterion Medicinal Cannabis Facility	Rail alignment from Gowrie to Helidon, Queensland	A high-tech medicinal cannabis cultivation, research, and manufacturing facility. The project involves construction of a 40 hectare glasshouse to produce 20,000 plants per day at full capacity. Medicinal grade cannabis grown at the facility will be manufactured into a range of medicinal products, including single patient packs, cannabis oils, gels, salts, and related products, destined solely for the medicinal market. The facility will be powered by renewable energy.	No information on construction timeline is available

Table 9-2 Qualitative assessment of potential cumulative noise and vibration impacts

Project	Potential cumulative impact	Aspect	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
InterLinkSQ	Increased noise and vibration levels at sensitive receptors—construction	Probability of the impact	Medium (2)	7	Medium	The potential for cumulative noise and vibration impacts during construction will be managed through: • Implementation of the CEMP for the Project. • ARTC will facilitate discussions between respective Contractors on adjoining Inland Rail sections regarding the scheduling of construction activities to avoid simultaneous undertaking of noisy construction activities. • Consultation with sensitive receptors within the extent of impact from noise and vibration generated by construction activities for the Project to agree appropriate mitigation measures.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			
Asterion Medicinal Cannabis Facility	Increased noise and vibration levels at sensitive receptors—construction	Probability of the impact	Medium (2)	6	Low	The potential for cumulative noise and vibration impacts during construction will be managed through: • Implementation of the CEMP for the Project. • ARTC will facilitate discussions between respective Contractors on adjoining Inland Rail sections regarding the scheduling of construction activities to avoid simultaneous undertaking of noisy construction activities.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			

Project	Potential cumulative impact	Aspect	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
						Consultation with sensitive receptors within the extent of impact from noise and vibration generated by construction activities for the Project to agree appropriate mitigation measures.
Commodore Mine and Millmerran Power Station	Increased noise and vibration levels at sensitive receptors—construction	Duration of the impact	Medium (2)	6	Low	We note from a review of the existing Commodore Mine Environmental Authority (EA) EPML00841513 that the mine currently operates to a prescribed noise limit of 35 dBA LAeq. Since this limit is 10 dBA below the Non-Standard hours noise limit for the Project, the contribution of noise from the mine would not result in an overall increase in noise levels at sensitive receptors adjacent to the Project. Notwithstanding this, ARTC will consult with Intergen and the community regarding scheduling of construction activities to avoid the simultaneous undertaking of activities having potential to generate disturbances.
		Magnitude/intensity of the impact	Low (1)			
		Sensitivity of the receiving environment	Low (1)			
		Sensitivity of the receiving environment	Medium (2)			
North Star to NSW/QLD Border (Inland Rail)	Increased noise and vibration levels at sensitive receptors—construction	Probability of the impact	Medium (2)	8	Medium	The potential for cumulative noise and vibration impacts during construction will be managed through: • Implementation of the CEMP for the Project. • ARTC will facilitate discussions between Contractor on adjoining Inland Rail sections regarding the scheduling of construction activities to avoid simultaneous undertaking of noisy construction activities, e.g. piling. • Consultation with sensitive receptors within the extent of impact from noise and
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	High (3)			

Project	Potential cumulative impact	Aspect	Relevance factor	Sum of relevance factors	Impact significance	Comments and management measures
						vibration generated by construction activities for the Project to agree appropriate mitigation measures. • Operational road traffic noise impacts are not anticipated given the closest road upgrade associated with the Project is at Yelarbon approximately 29 km from the NS2B Project.
Gowrie to Helidon (Inland Rail)	Increased noise and vibration levels at sensitive receptors—construction	Probability of the impact	Medium (2)	7	Medium	The potential for cumulative noise and vibration impacts during construction will be managed through: • Implementation of the CEMP for the Project. • ARTC will facilitate discussions between respective Contractors on adjoining Inland Rail sections regarding the scheduling of construction activities to avoid simultaneous undertaking of noisy construction activities. • Consultation with sensitive receptors within the extent of impact from noise and vibration generated by construction activities for the Project to agree appropriate mitigation measures. • Operational road traffic noise impacts are not anticipated given the closest road upgrade associated with the Project (i.e. Warrego Highway) is approximately 3 km from the NS2B Project.
		Duration of the impact	Low (1)			
		Magnitude/intensity of the impact	Medium (2)			
		Sensitivity of the receiving environment	Medium (2)			

10.0 Conclusion

SLR has completed an assessment of noise and vibration impacts potentially resulting from construction and operational road traffic associated with the B2G section of the Inland Rail Project. The following conclusions are made with consideration to the assumptions, results and findings detailed in this report.

10.1 Construction noise

Given the close proximity of sensitive receptors to areas of the Project and the inherently intensive nature of the proposed construction works, exceedance of the CoP Vol 2 noise limits have been identified for the worst-case stages of construction. These impacts are summarised as follows:

- 46 of the 78 proposed laydowns areas are predicted to exceed the Standard hours lower limit of 50 dBA $L_{Aeq,adj,15min}$ at the closest sensitive receptor, and in most cases at multiple receptor locations. 13 laydown areas are predicted to exceed the upper limit of 65 dBA $L_{Aeq,adj,15min}$ at sensitive receptors during Standard hours. Noise impacts have been predicted for residential and non-residential sensitive receptors with the majority of exceedances concentrated around the townships of Yelarbon, Brookstead and Pittsworth. Further assessment during the detailed design stage of the laydown areas is required to confirm the exceedances and allow for reasonable and practicable mitigation measures to be incorporated into the design prior to works commencing on the laydown site.
- During operation of the concrete batch plant at laydown area LDN150.5, the Standard hours lower limit is predicted to be exceeded (i.e. by up to 6 dBA) at the three closest sensitive (residential) receptors. Further assessment during the detailed design stage of the concrete batch plant is required to confirm the exceedance and allow for reasonable and practicable mitigation measures to be incorporated into the design prior to commissioning the site.
- A worst-case scenario modelled for the Whetstone MDC has resulted in marginal 1 dBA exceedances being predicted at two sensitive (residential) receptors in proximity to the site. Noise mitigation requirements would be finalised during the detailed design stage of the Project to confirm the outcomes of this preliminary assessment, however it is expected that the MDC would be operated in compliance with the lower limit by restricting sandblasting activities to the daytime period as well as conducting this activity within a partial acoustic enclosure.
- The assessment of noise from the six borrow pit sites has identified the potential for lower noise limit exceedances at two sites, namely:
    - Taits Red Ridge borrow pit: two exceedances at sensitive (residential) receptors by up to 5 dBA.
    - Heckendorf Road (south-east) borrow pits: an 11 dBA exceedance at the closest sensitive (residential) receptor with all proposed activities occurring simultaneously.

  The potential for reducing equipment noise emission levels through selection of quieter plant, locating equipment within the partially excavated pits and use of temporary bunding would be investigated further during the detail design stage of the Project.
- The earthworks stages of the Project are predicted to result in the highest impacts in terms of predicted noise levels and quantum of exceedances. Noise limit

exceedances have been predicted for both residential and non-residential sensitive receptors including Yelarbon Soldiers Memorial Hall, Pampas Memorial Hall, Pampas Rural Fire Shed, Brookstead Hall and the Harvest New Life Church. The predicted exceedances are dominated by the operation of mulchers, dozers, scrapers and trucks. During the earthworks, all reasonable and practicable noise mitigation measures would need to be implemented.

- Noise levels predicted for the worst-case stages of bridge construction has identified exceedances of the 45 dBA $L_{Aeq,adj,15min}$ lower noise limit at up to 30 of the 34 Project bridge sites, with predicted noise levels varying depending on the construction stage and methodology. The majority of noise limit exceedances are predicted for residential receptors, but some marginal exceedances have been predicted for non-residential sensitive receptors including the Yelarbon Soldiers Memorial Hall, Brookstead Hall and the Harvest New Life Church at Pittsworth.
- Construction noise levels comparable to the earthworks stages have been predicted during rail civil and road civil works when these works occur in proximity to sensitive receptors. However, these stages of construction are expected to be significantly shorter in duration, particularly the sleeper and rail installation, and tamping and regulating stages which steadily progress along the rail alignment. Noise impacts resulting from the rail and road civil stages of construction would be expected to be managed primarily through effective stakeholder engagement and the engineering controls outlined in this report.

For Project construction activities where the Standard hours upper limits and Non-Standard hours noise limits are predicted to be exceeded, mitigation measures will be mandatory and will in each instance involve community engagement with impacted sensitive receptors.

10.2 Construction vibration

Safe working distances for all vibration intensive equipment potentially required to be operated on the Project have been calculated in order to avoid damage to sensitive buildings, structures and disturbance to human comfort. The nearest sensitive residential receptors to the Project vibration intensive construction works are within the conservative human comfort safe working distances. Consequently, it is recommended that human comfort vibration impacts are managed as follows:

- Insofar as practicable, avoid operating vibration intensive equipment during Non-Standard hours to prevent the risk of human annoyance triggered by exceeding the threshold of perception (i.e. 0.3 mm/s).
- Ensure all vibration sensitive receptors located within the conservative human comfort safe working distances are notified in advance of the potential for vibration levels to be perceptible during the Project construction works.

10.3 Blasting noise and vibration

The assessment of blasting impacts has involved calculating MICs to achieve compliance with the CoP Vol 2 recommended airblast overpressure and ground vibration limits at the closest sensitive (residential) receptors to the blasting sites potentially required for the Project.

Based on the calculated MICs, blasting for the Project will potentially be constrained (in terms of MICs per delay) in some areas and require further detailed blast design and optimisation due to the proximity of sensitive receptors. It is important to note that the conservatively calculated MICs have been calculated from the closest offset distance between the blasting site and receptor. At all potential Project blasting sites, there is an

opportunity to commence blasting at larger offset distances from sensitive receptors to refine the blast design to ensure that compliance with the blasting criteria is achieved for the Project.

10.4 Construction road traffic noise

The assessment of construction road traffic noise impacts has analysed roads where the addition of Project construction traffic is predicted to increase the forecast $L_{A10(1hr)}$ road traffic noise level by more than 3 dBA. The data indicates that up to 149 roads are predicted to experience an increase of 3 dB or more in road traffic noise level with the addition of Project construction vehicles. Up to 11 roads, all of which have low existing traffic volumes, are predicted to experience a very significant (i.e. 15 dBA or greater) increase in road traffic noise levels.

Construction road traffic noise impacts would be subject to further assessment and development of mitigation measures during the detailed design stage of the Project.

10.5 Construction noise and vibration mitigation and management

Project construction works will be designed, planned and implemented in a manner that maintains human health, ensures a suitable acoustic environment and avoids vibration related structural damage to all properties. Noise and vibration from construction activities will be managed consistent with the requirements of the CoP Vol 2.

The management of noise and vibration during construction will be administered by a Noise and Vibration Management Plan (NVMP) as a component of the CEMP to provide the structured approach to the management of noise and vibration issues with the objective of supporting delivery of the Project in a manner that maintains human health and wellbeing by ensuring a suitable acoustic environment.

All Project construction activities, including pre-construction and early works will be managed in accordance with the NVMP which will include:

- Construction noise and vibration criteria
- Construction activities including plant and equipment
- Time periods of construction activity
- Locations of construction activity
- Reasonable and practicable mitigation and management measures for both Standard hours and, where required, Non-Standard hours work
- Community liaison requirements and complaint procedures

Works that have a minimal risk of noise and vibration impacts provide an opportunity to work outside the standard hours and benefit local communities and landowners by completing the works in a reduced timeframe.

There is potential for noise intensive construction works undertaken close to sensitive receptors to result in impacts even where reasonable and practicable mitigation and management are implemented. Under these circumstances, the contractor shall implement additional management measures commensurate with the impacts, which for impacted receptors will include consideration of respite, alternative accommodation or alternative agreements.

10.6 Operational road traffic noise

A conservative screening assessment was carried for all 72 road segments modified by the Project to identify where the CoP Vol 1 road traffic noise criteria may potentially be exceeded. Where the predicted future road traffic noise level exceeded or was within 2 dBA of the applicable criterion, a detailed assessment was undertaken.

The detailed road traffic noise assessment considered:

- the pre-construction road traffic noise measurement results
- verification of a 3-D noise model against the measurement results, and
- 3-D model predictions of the year of completion of construction of the Project and future (i.e. 10-year horizon) road traffic noise levels.

The 10-year horizon road traffic noise levels are predicted to exceed the CoP Vol 1 noise criteria at ten residential receptors and three of the educational and community receptors without additional noise mitigation. These 13 sensitive receptors are located along non-accessed controlled roads, which under the guidance of CoP Vol 1, do not qualify for noise treatment. However, it is recommended that at-property treatments be investigated on a case by case basis for these impacted sensitive receptors.

10.7 Summary

Based on the findings of this assessment, it is considered that the noise and vibration impacts predicted to result from the Project can be managed in accordance with the requirements of the ToR, CoP Vol 1 and CoP Vol 2 provided the recommendations outlined in this report or equivalent are implemented.

APPENDIX V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix A B2G sensitive receptors

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Inland Rail is a subsidiary of
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INLAND RAIL

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 1 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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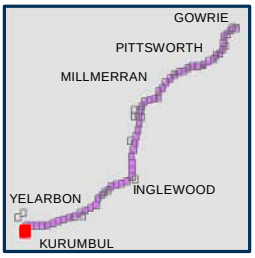
Paper: A4 Scale: 1:19,000
Date: 05-Nov-2024
Author: JG

- Level Crossings
- Project Road Designs
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Borrow Pit Site Layout

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments



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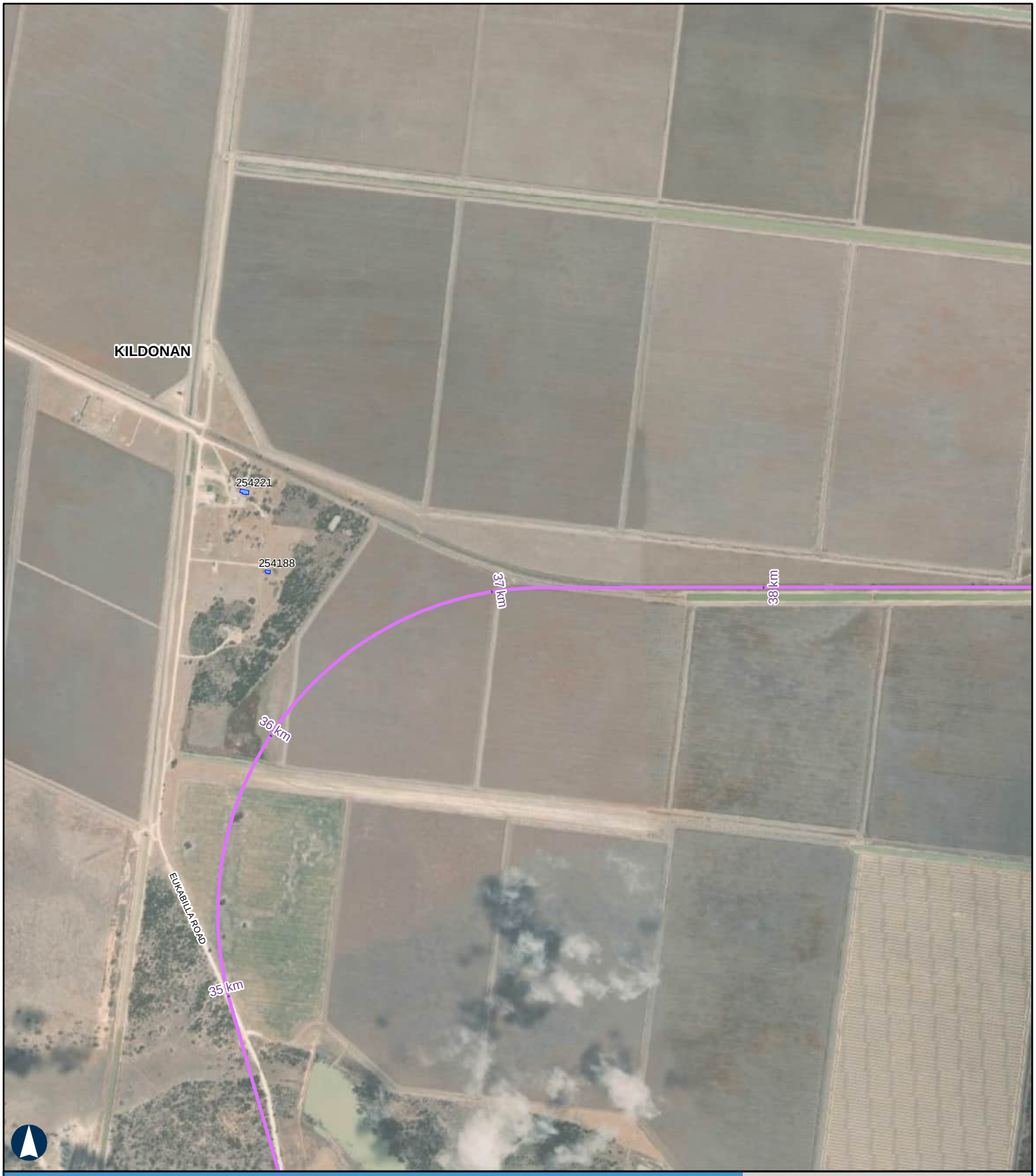
Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



BORDER TO GOWRIE

Sensitive Receptors

500 m

Coordinate System: GDA 1994 MGA Zone 56

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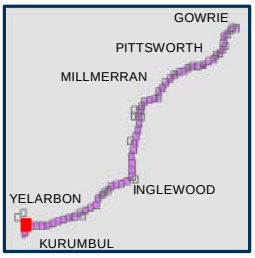
Paper: A4 Scale: 1:19,000
Date: 05-Nov-2024
Author: JG

- Level Crossings
- Project Road Designs
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Borrow Pit Site Layout

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments



ARTC InlandRail

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Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

BORDER TO GOWRIE

Sensitive Receptors

500 m

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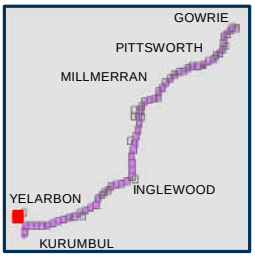

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Sensitive Receptors

500 m

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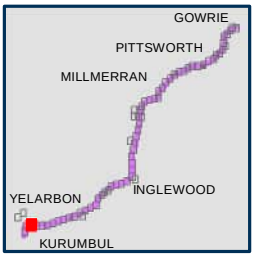

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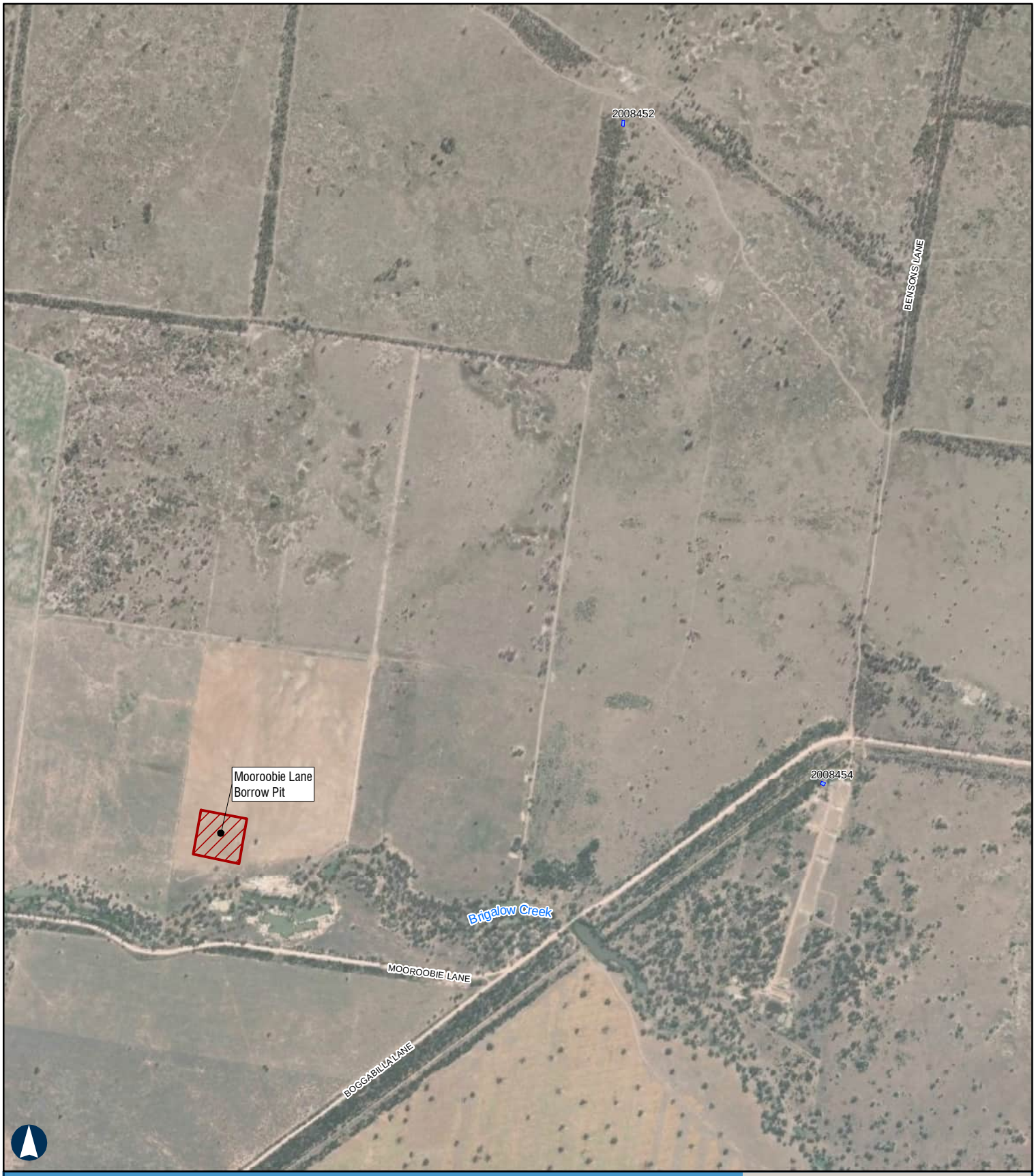

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 5 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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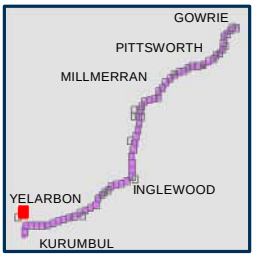

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BORDER TO GOWRIE

Sensitive Receptors

500 m

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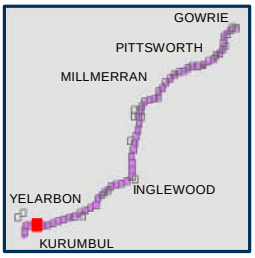

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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 7 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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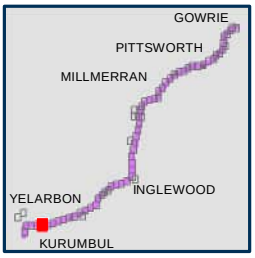

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Sensitive Receptors

500 m

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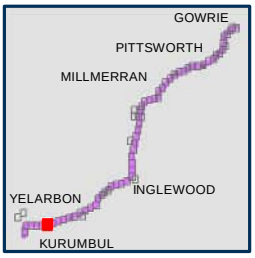

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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 9 of 78

500 m

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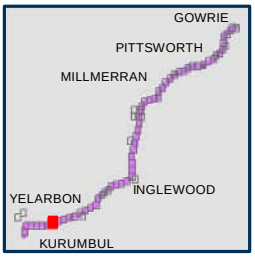

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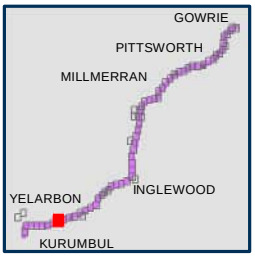

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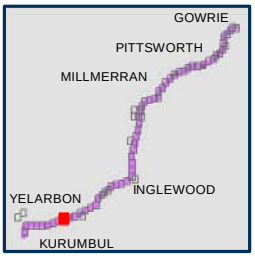

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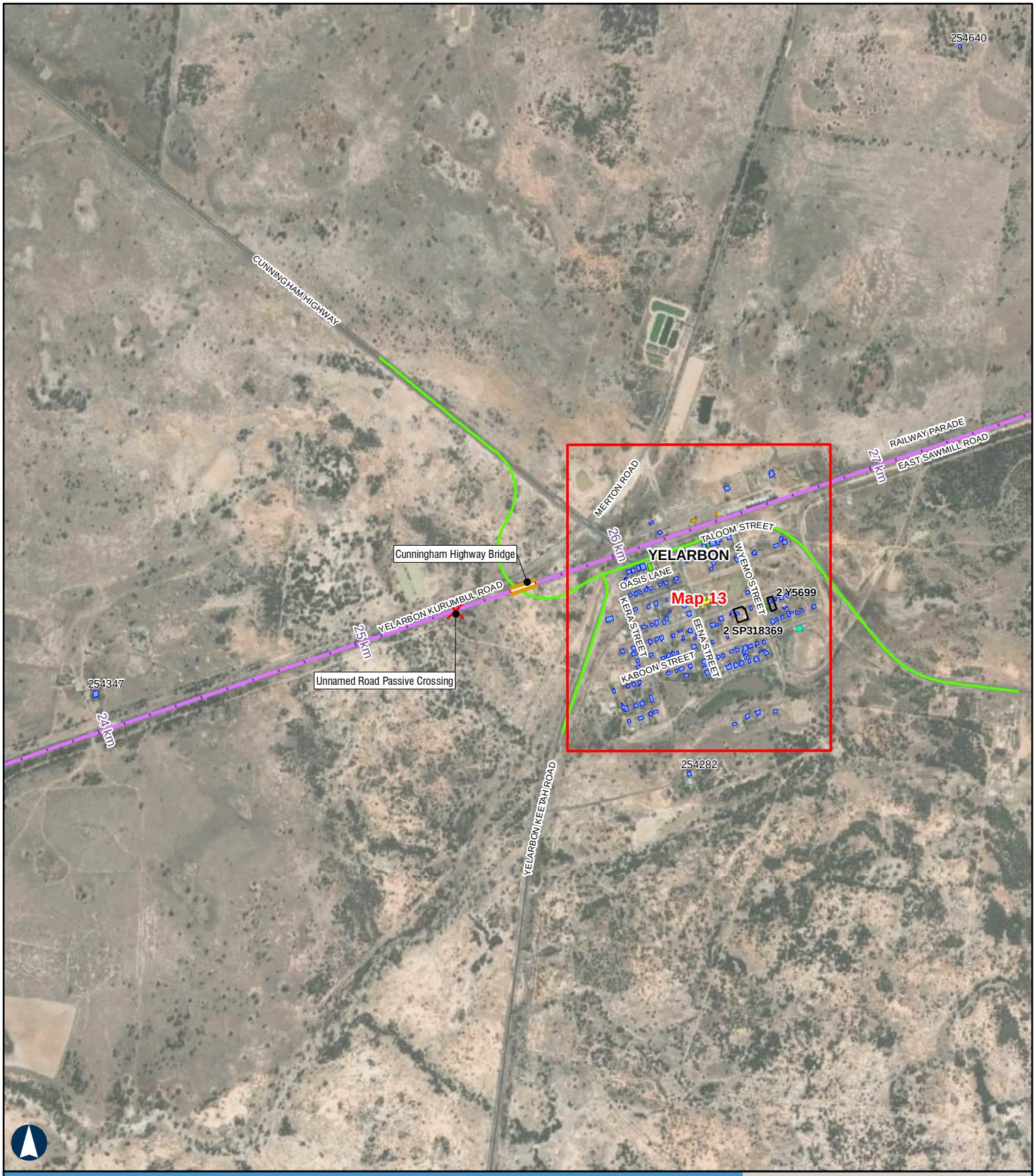

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 12 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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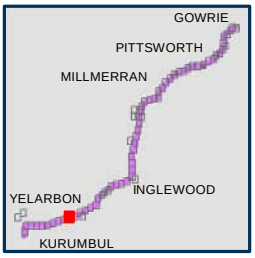

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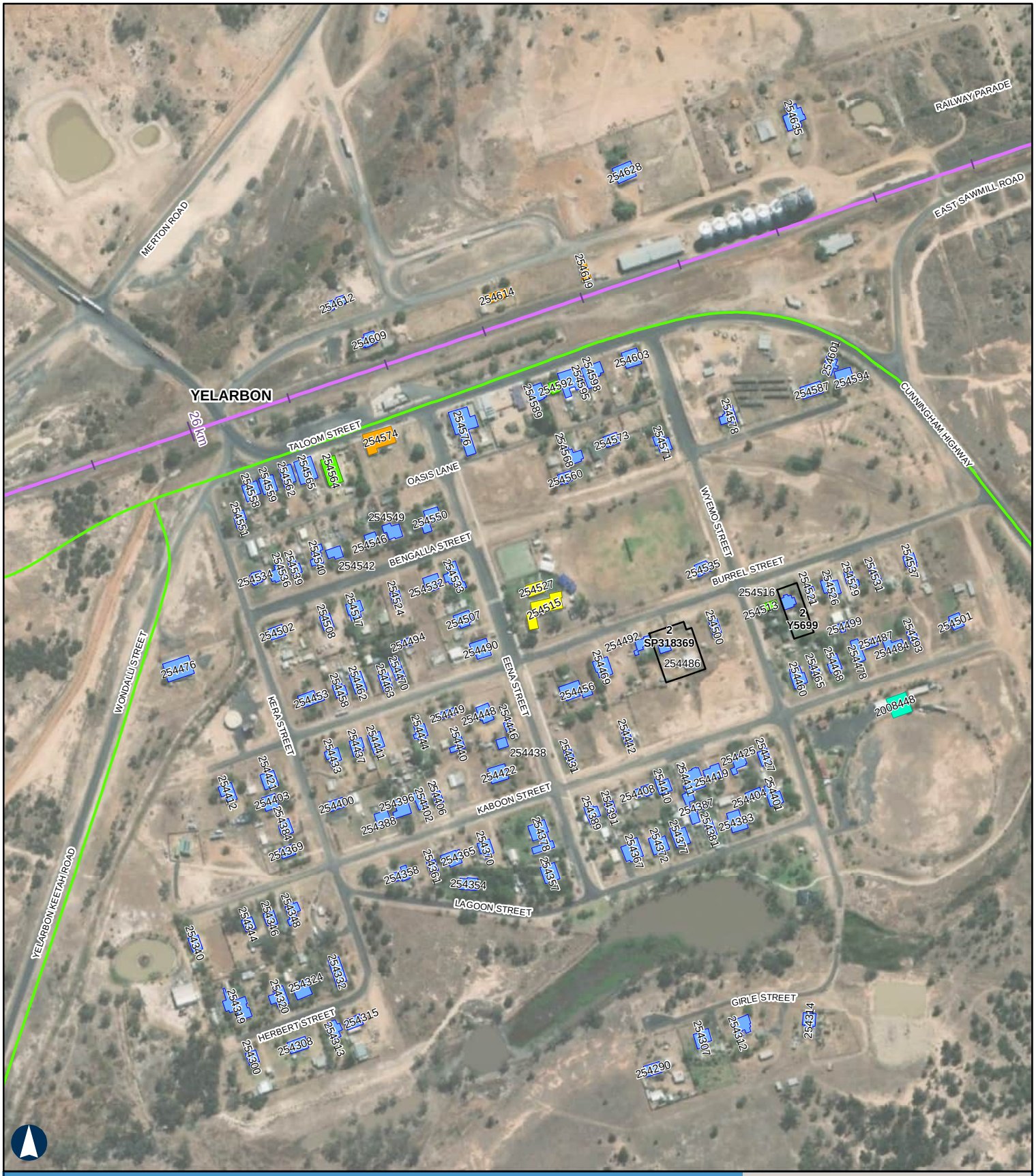

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 13 of 78

130 m

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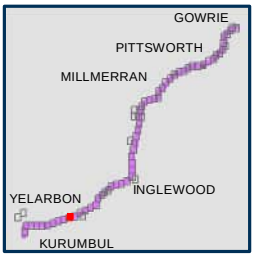

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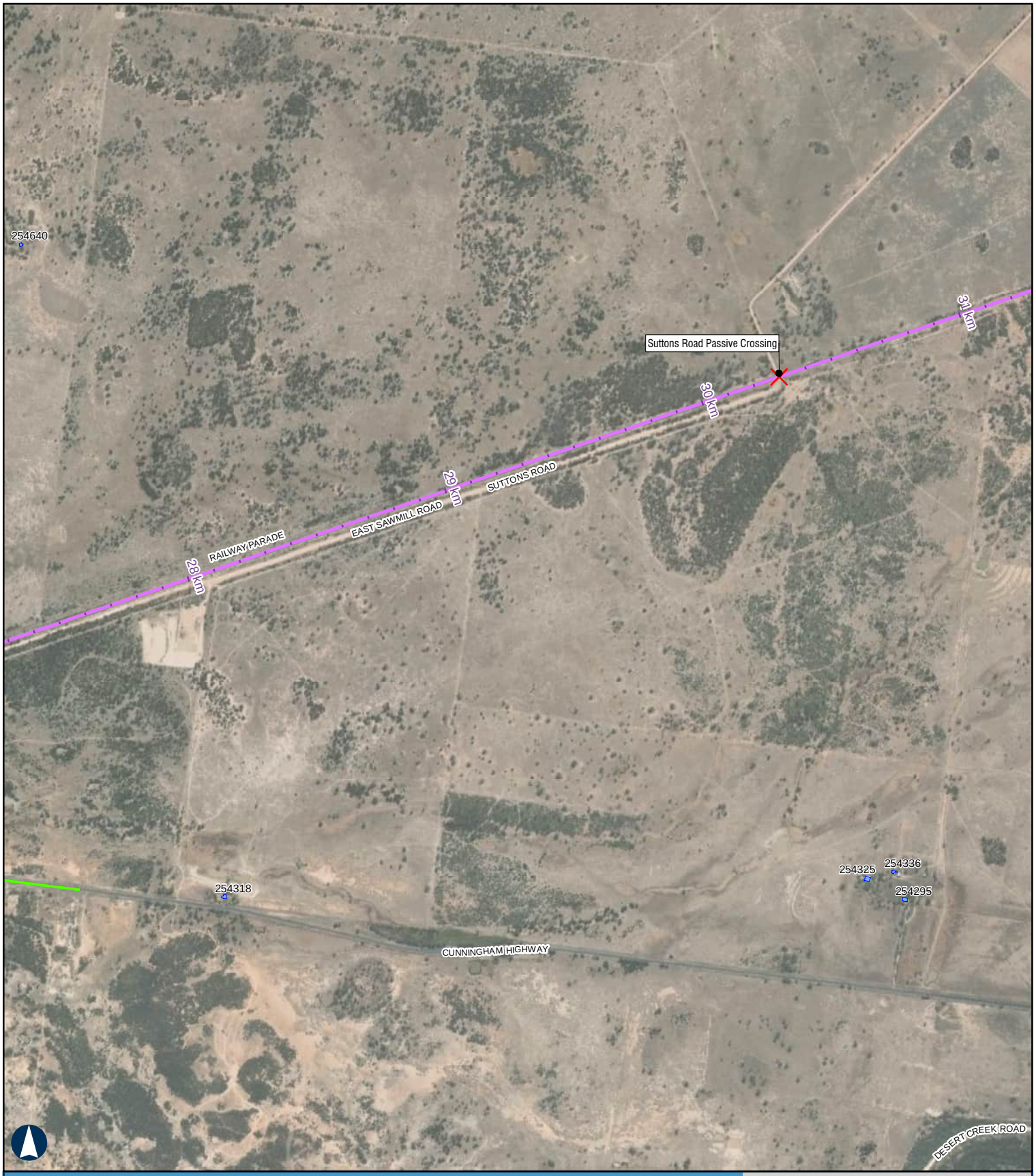

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 14 of 78

500 m

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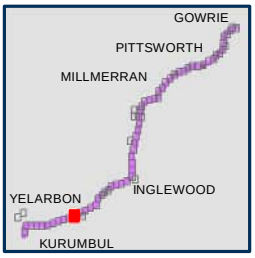

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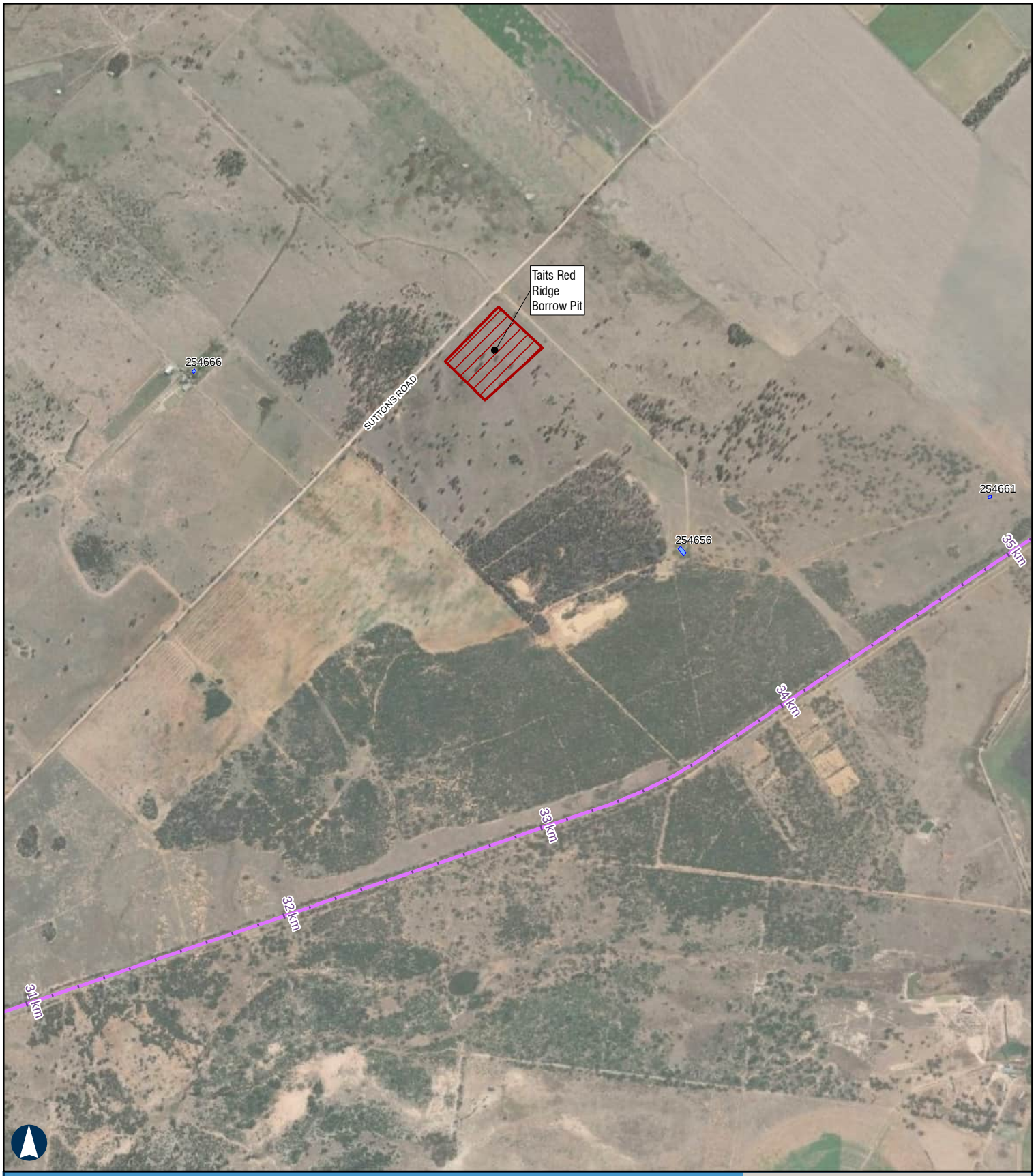

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 15 of 78

500 m

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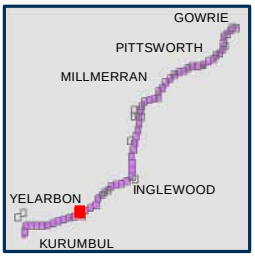

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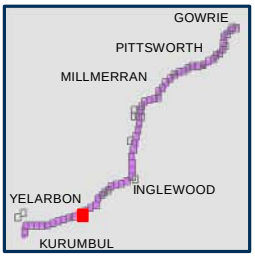

ARTC InlandRail

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H:\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Receptors.mxd
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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 17 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 05-Nov-2024
Author: JG

- Level Crossings
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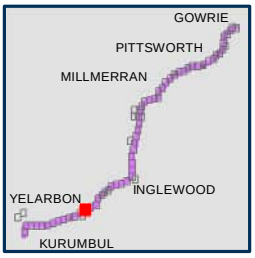
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Borrow Pit Site Layout

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments



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Sensitive Receptors

APPENDIX A - Map 18 of 78

500 m

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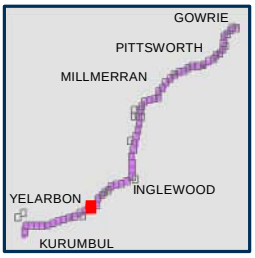

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Sensitive Receptors

APPENDIX A - Map 19 of 78

500 m

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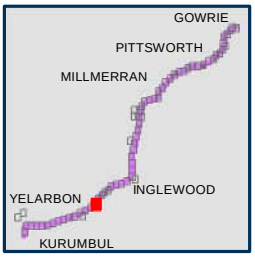

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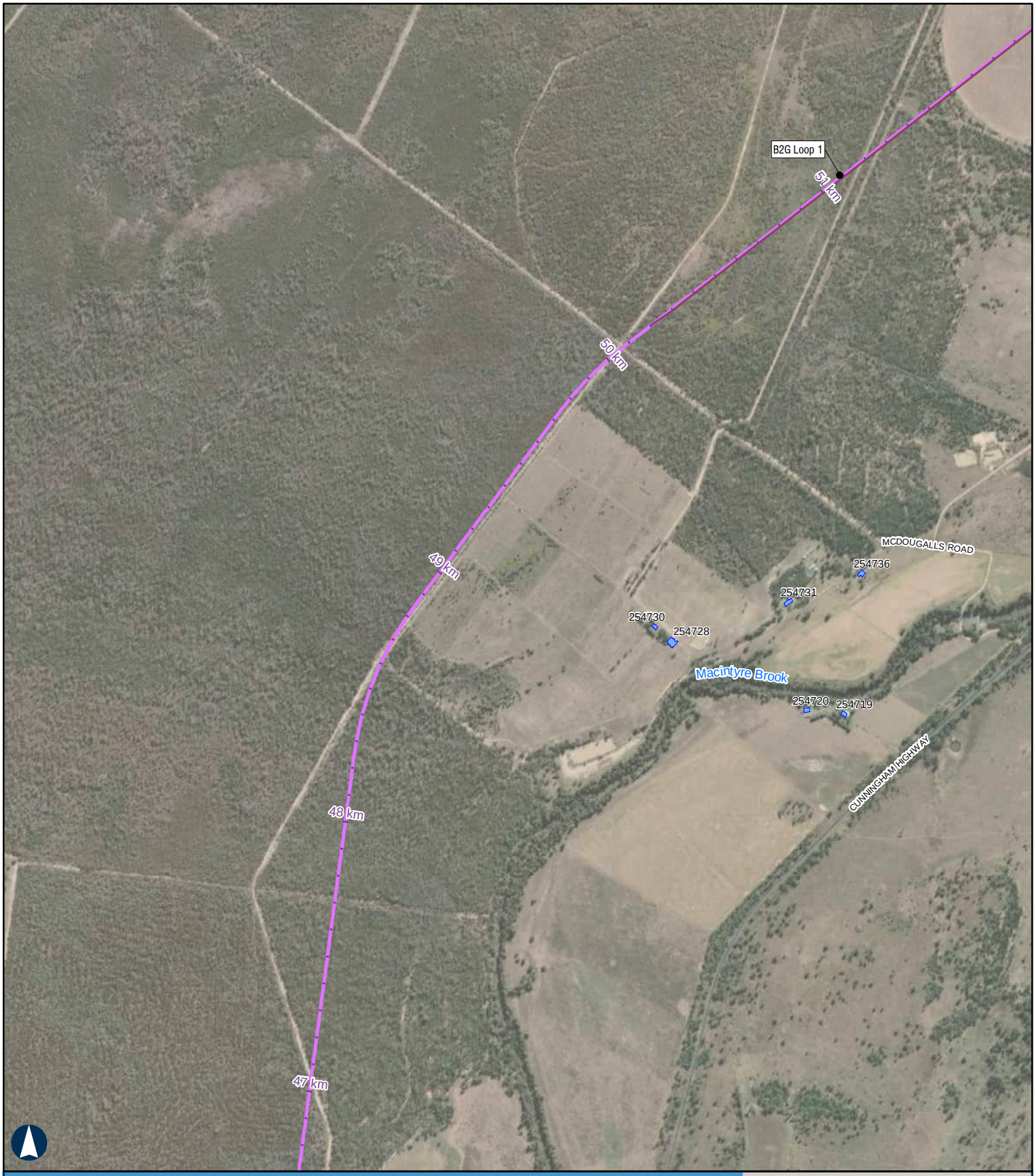

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Sensitive Receptors

APPENDIX A - Map 20 of 78

500 m

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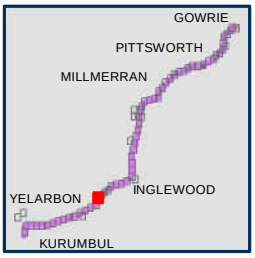

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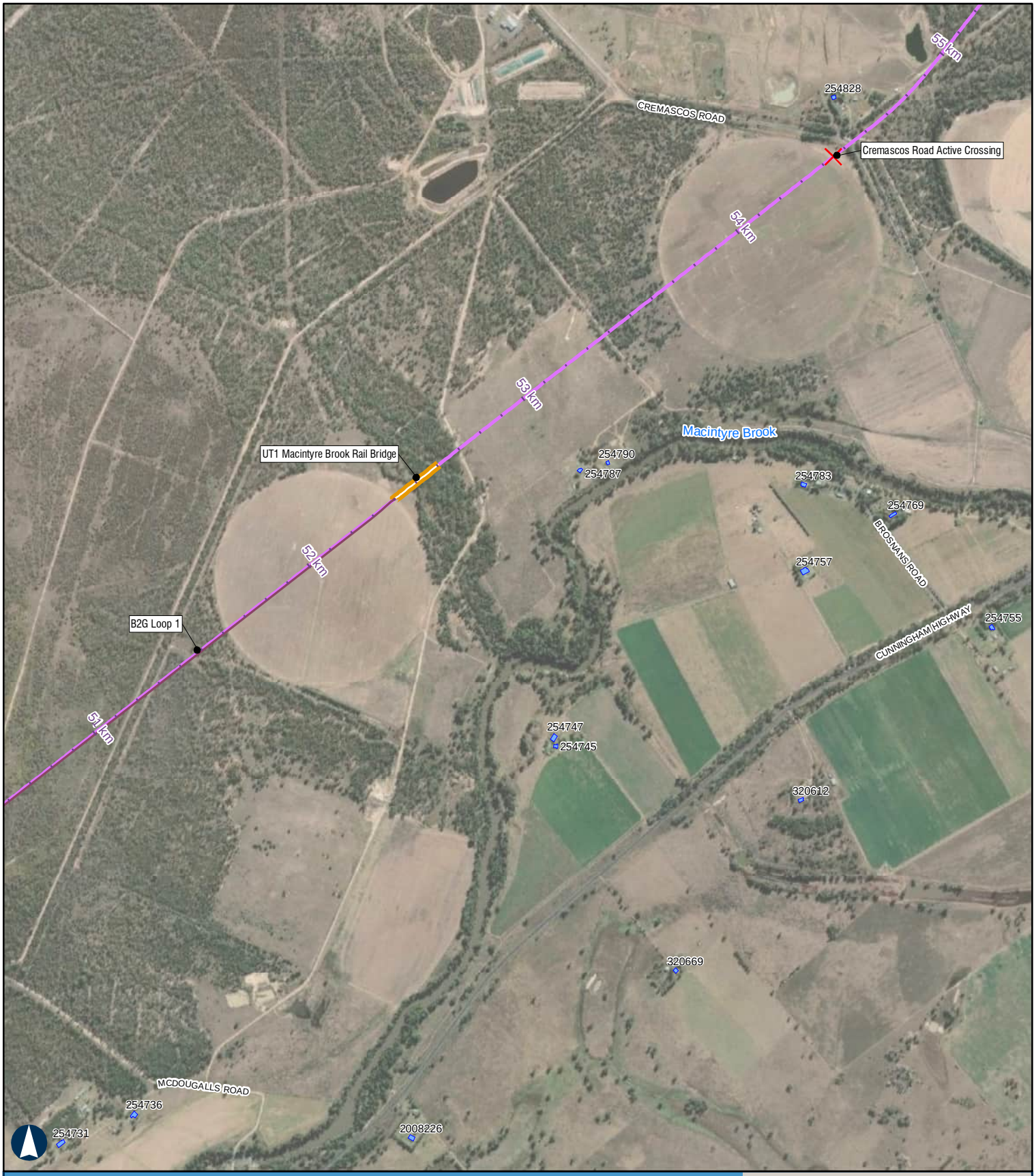

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Sensitive Receptors

APPENDIX A - Map 21 of 78

500 m

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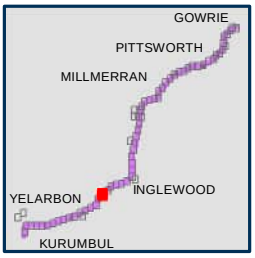

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Sensitive Receptors

APPENDIX A - Map 22 of 78

500 m

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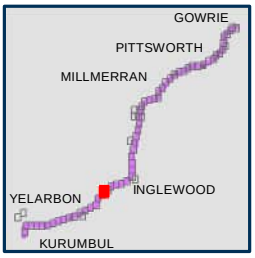

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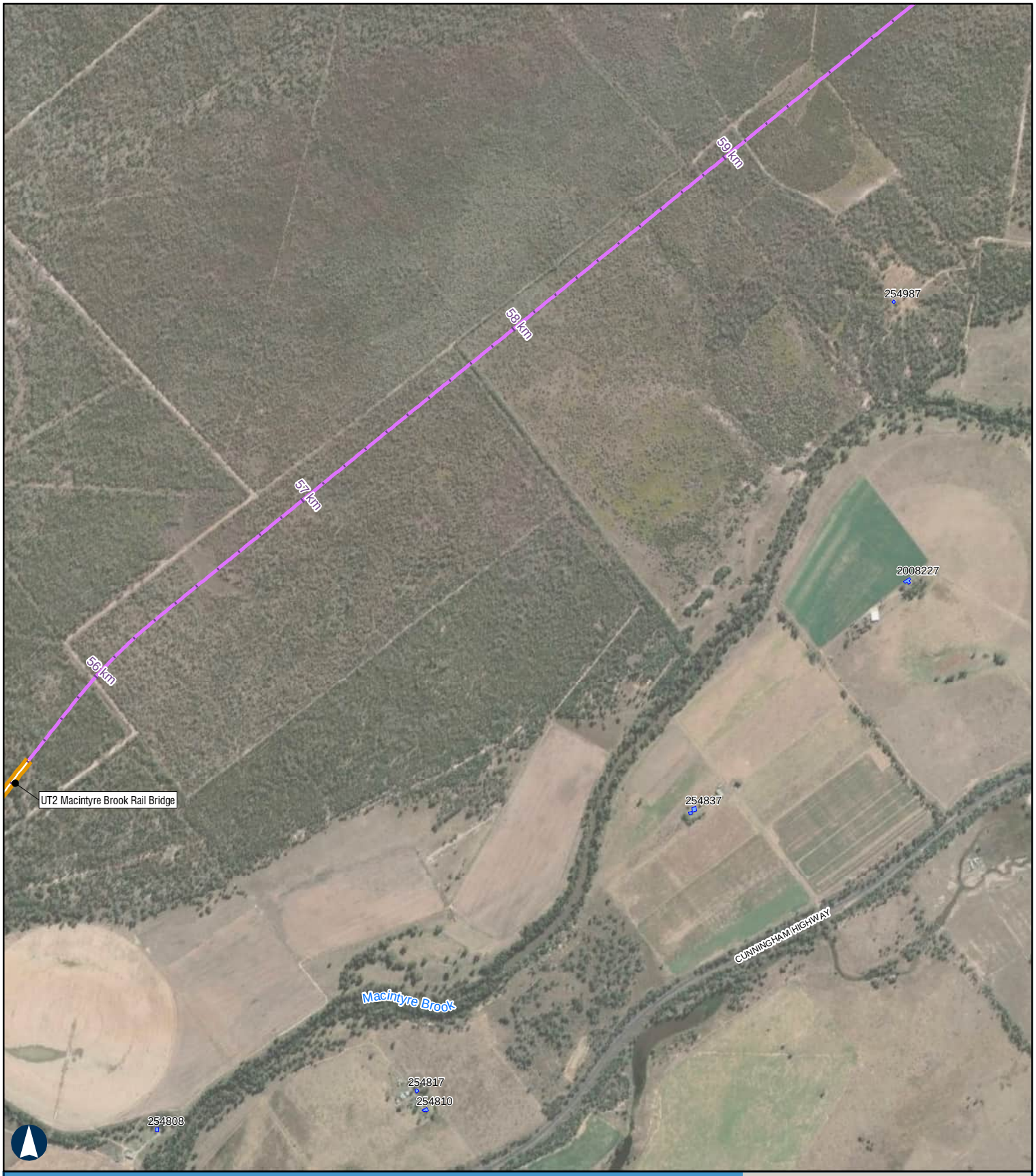

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Sensitive Receptors

APPENDIX A - Map 23 of 78

500 m

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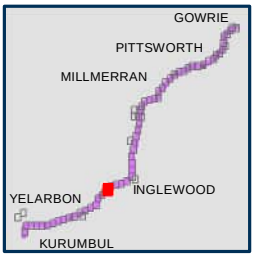

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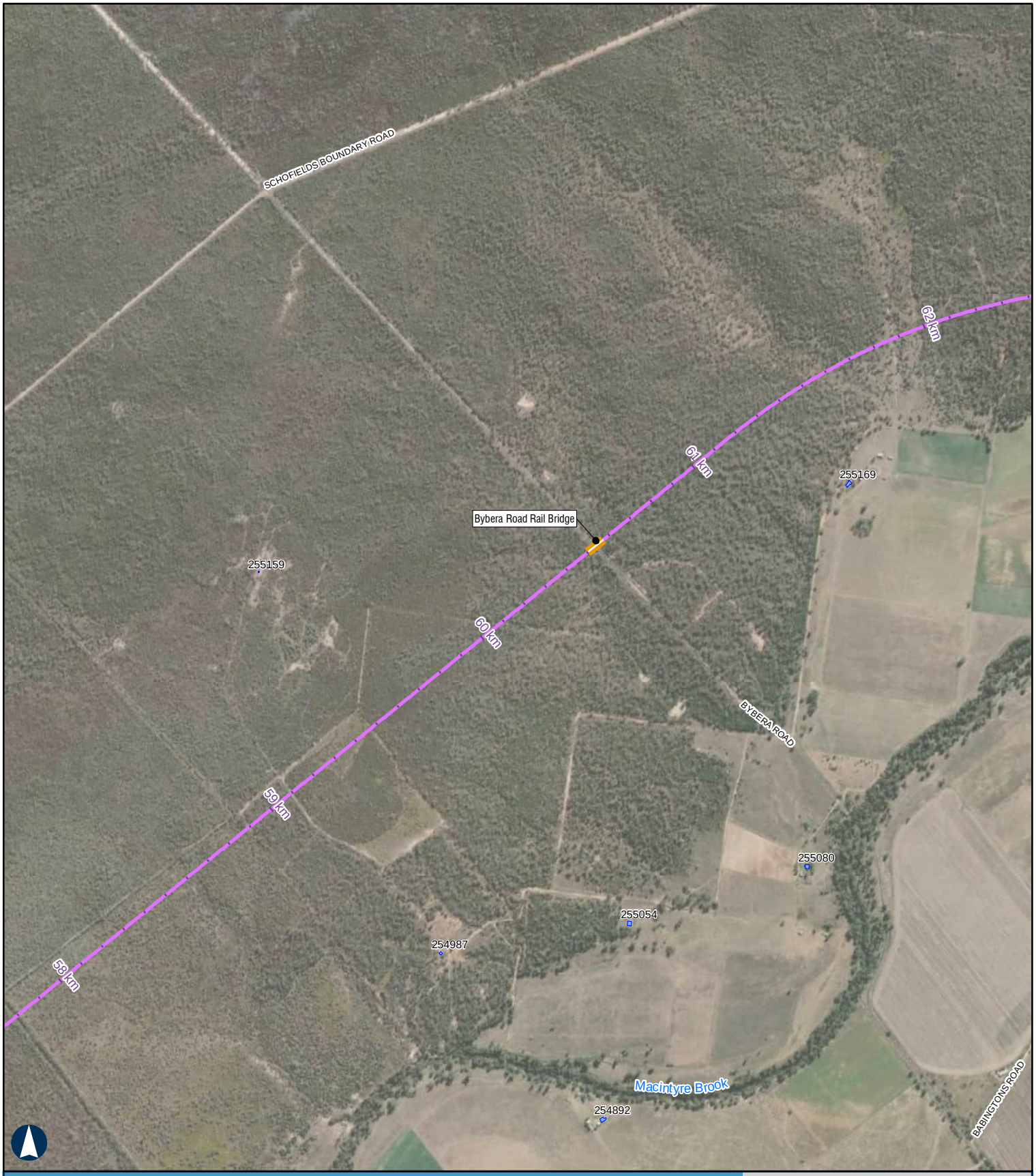

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 24 of 78

500 m

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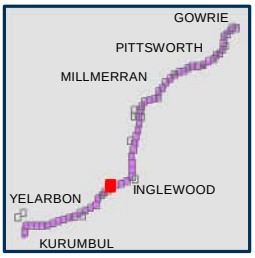

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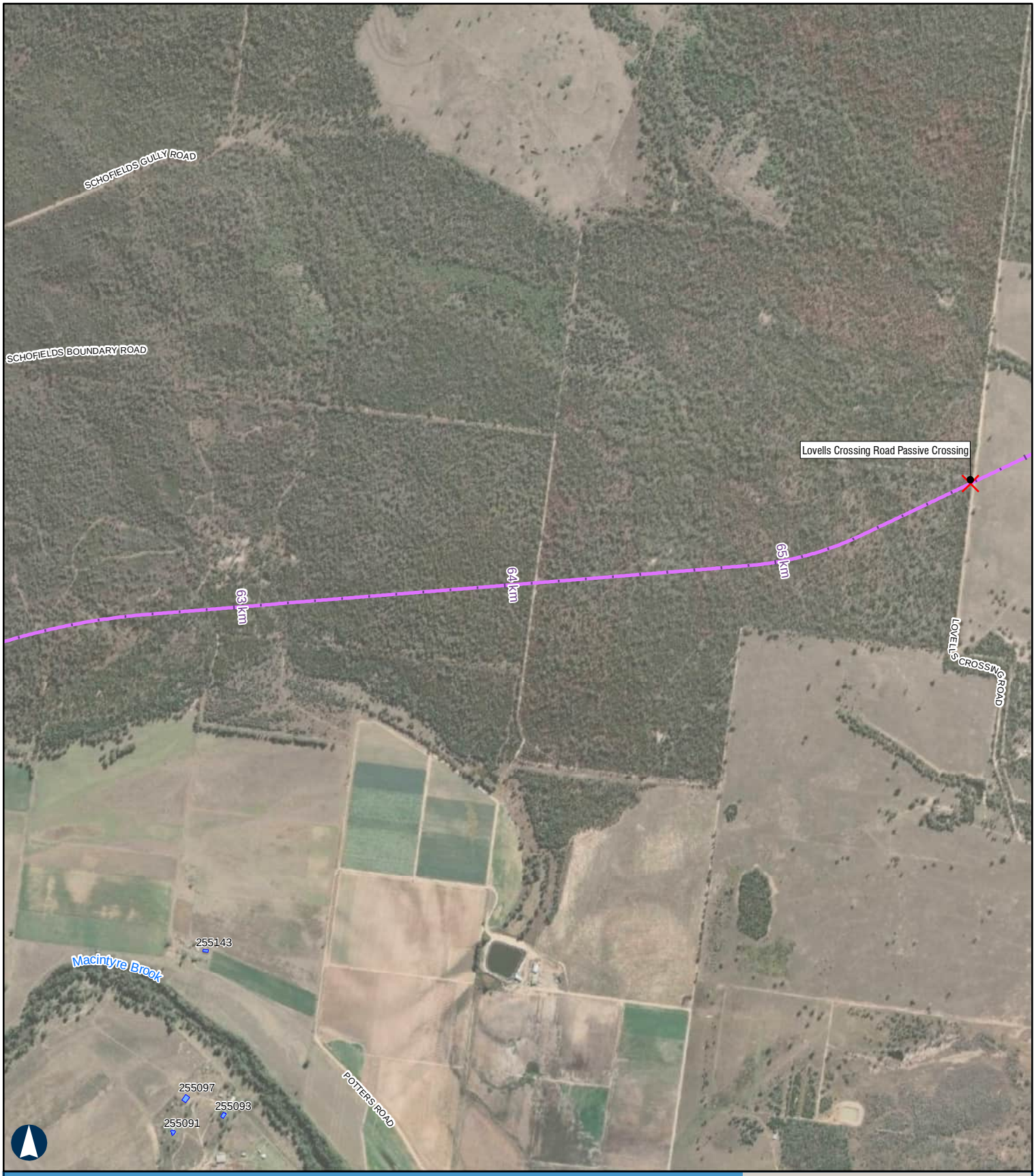

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 25 of 78

500 m

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Sensitive Receptor Type

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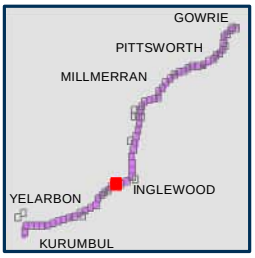

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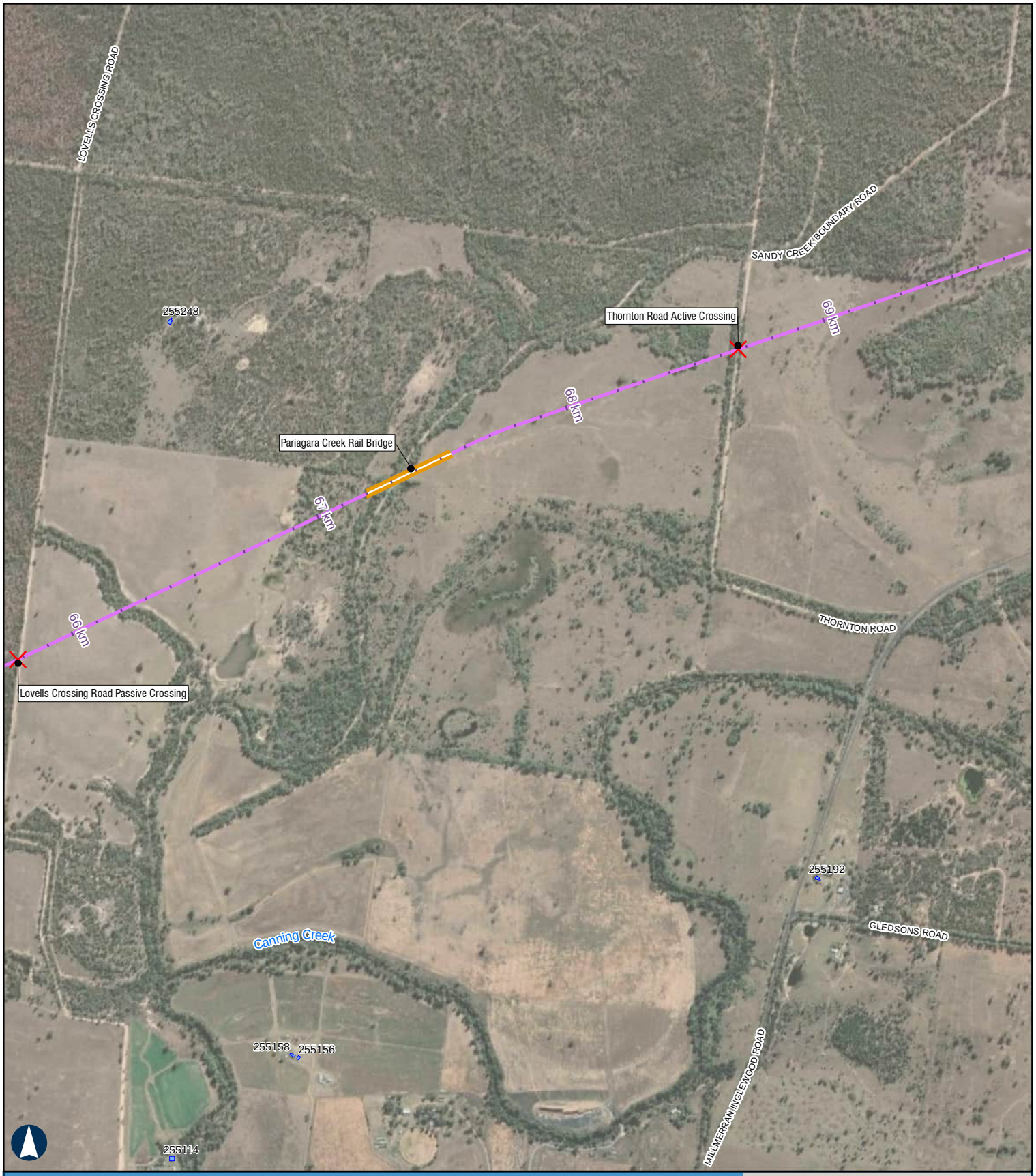

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Sensitive Receptors

APPENDIX A - Map 26 of 78

500 m

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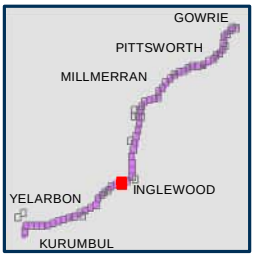

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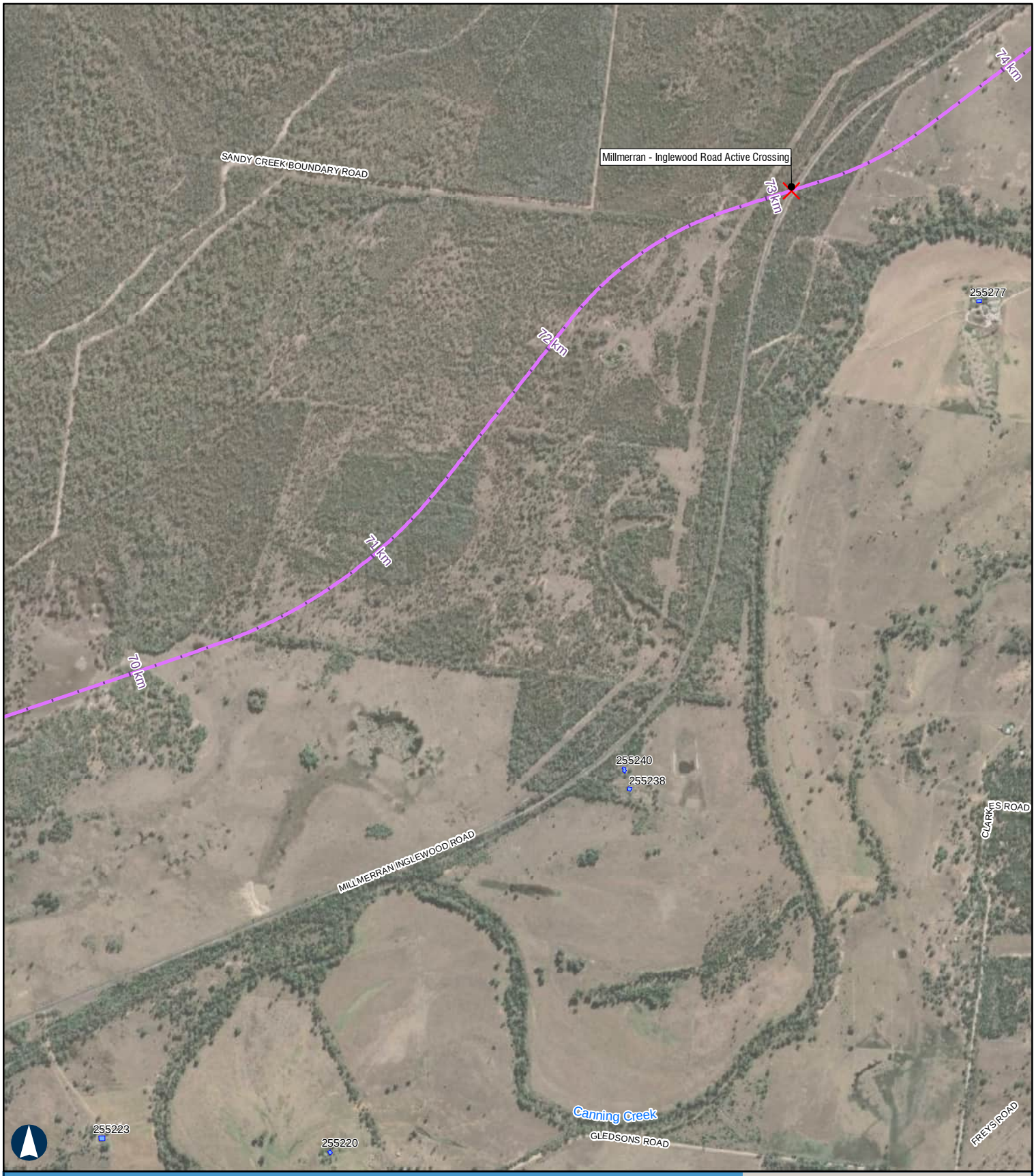

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APPENDIX A - Map 27 of 78

500 m

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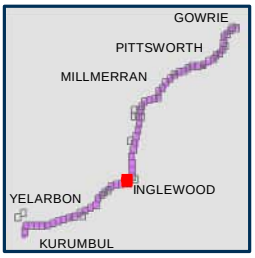

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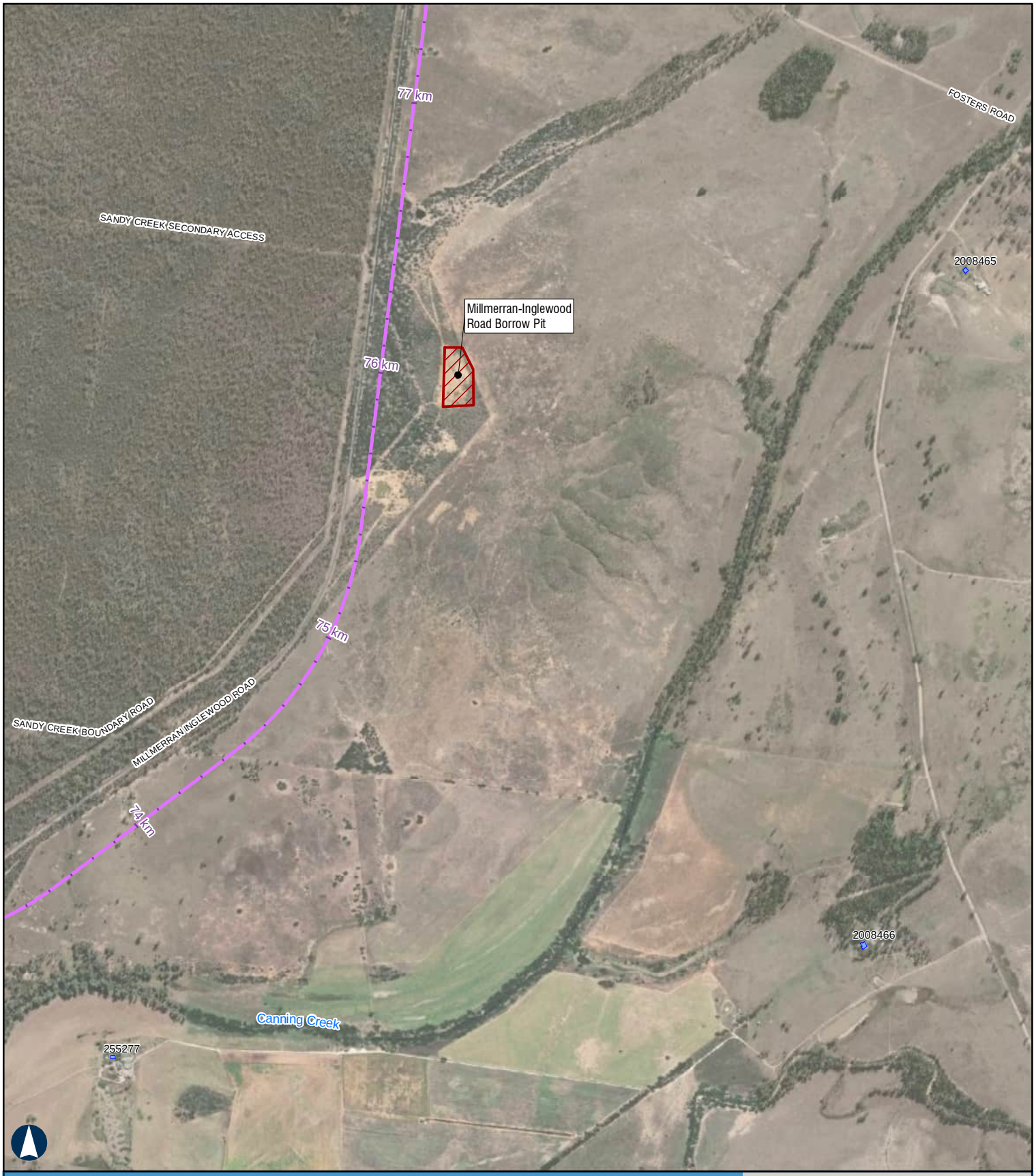

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APPENDIX A - Map 28 of 78

500 m

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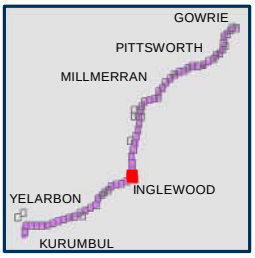

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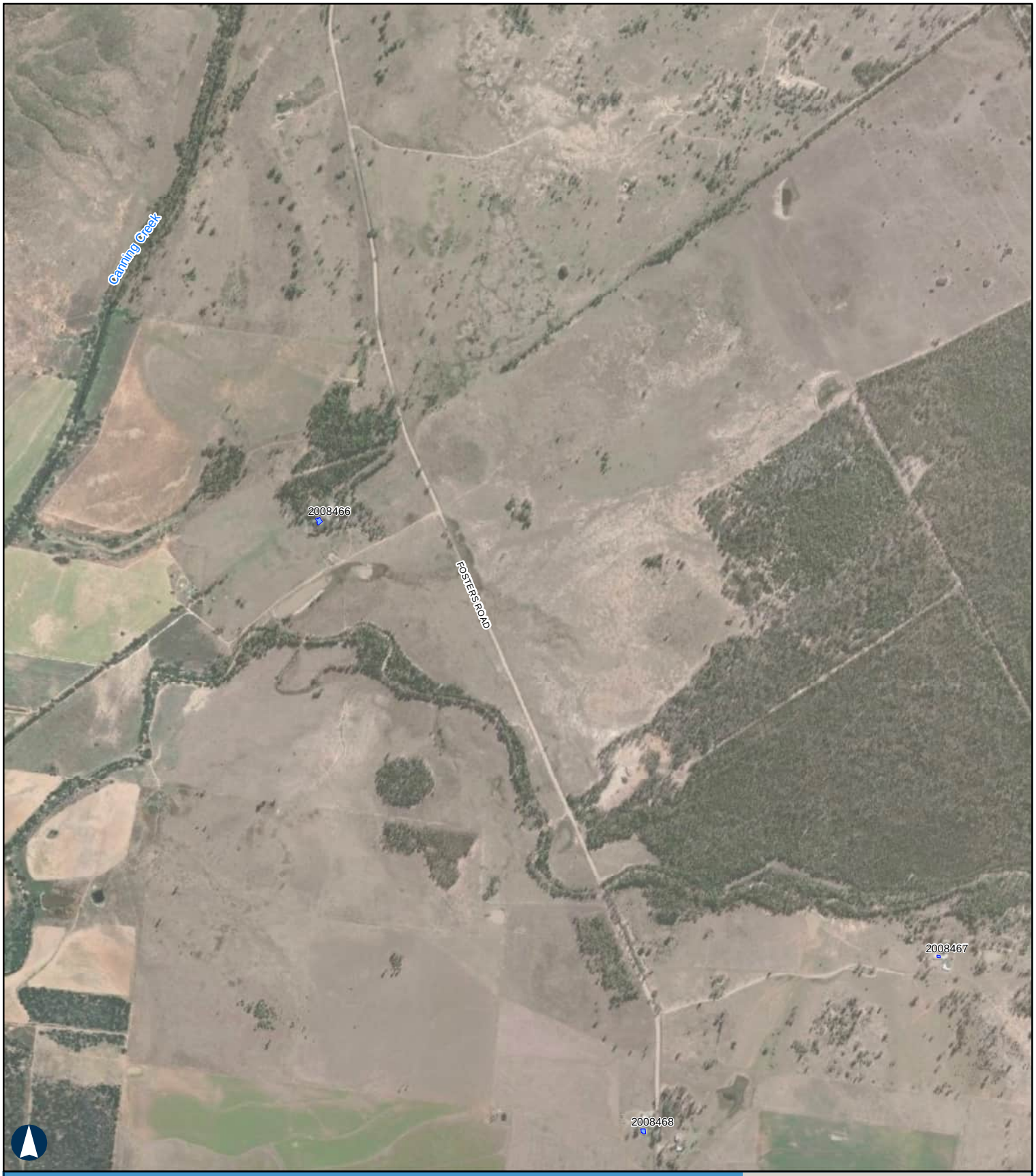

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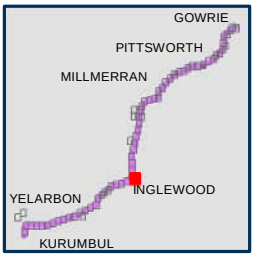

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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 30 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 05-Nov-2024
Author: JG

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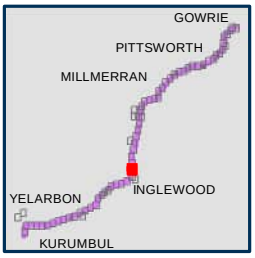
- Borrow Pit Site Layout

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments



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Sensitive Receptors

APPENDIX A - Map 31 of 78

500 m

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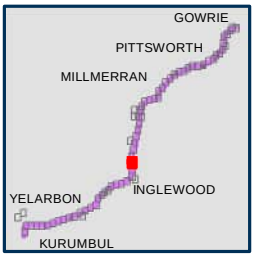

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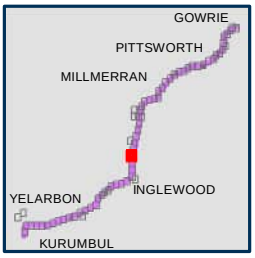

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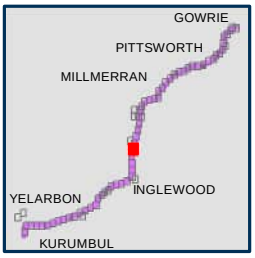

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APPENDIX A - Map 34 of 78

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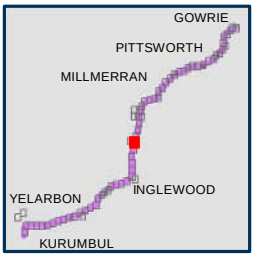

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Sensitive Receptors

APPENDIX A - Map 36 of 78

500 m

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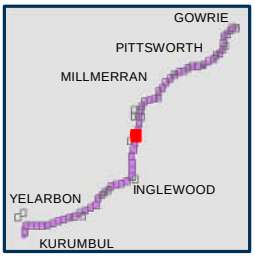

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Sensitive Receptors

APPENDIX A - Map 37 of 78

500 m

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APPENDIX A - Map 38 of 78

500 m

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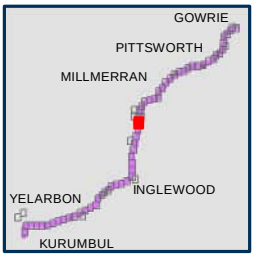

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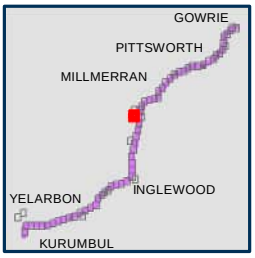

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APPENDIX A - Map 40 of 78

500 m

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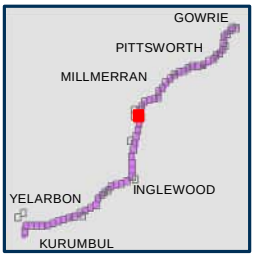

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APPENDIX A - Map 41 of 78

500 m

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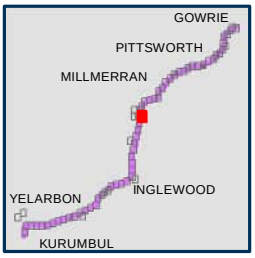

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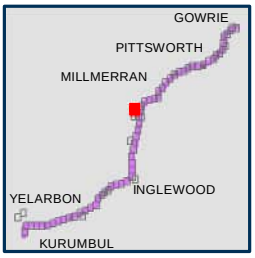

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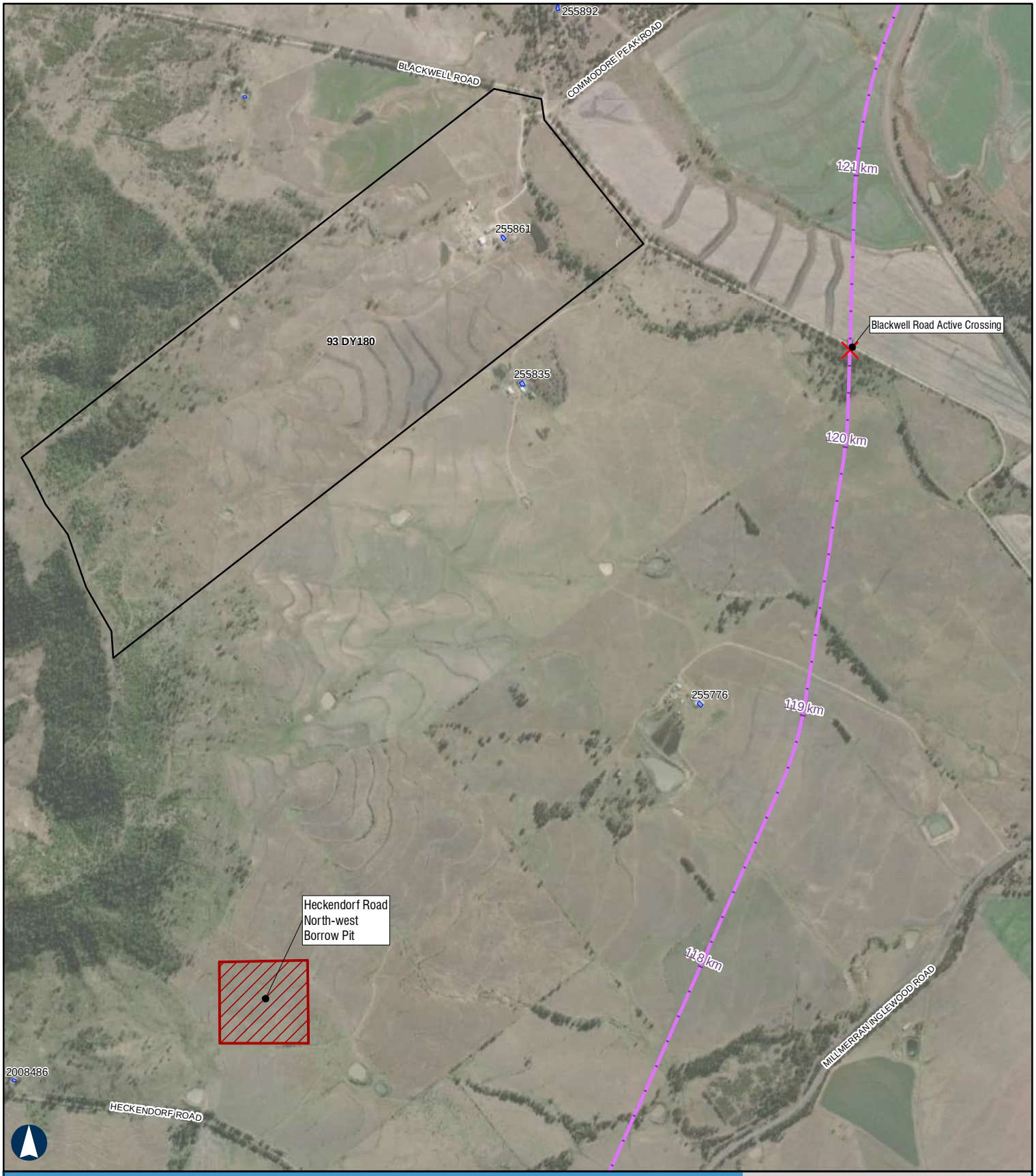

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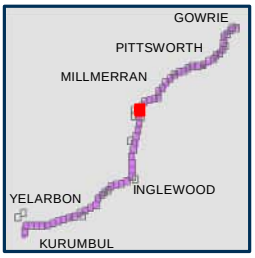

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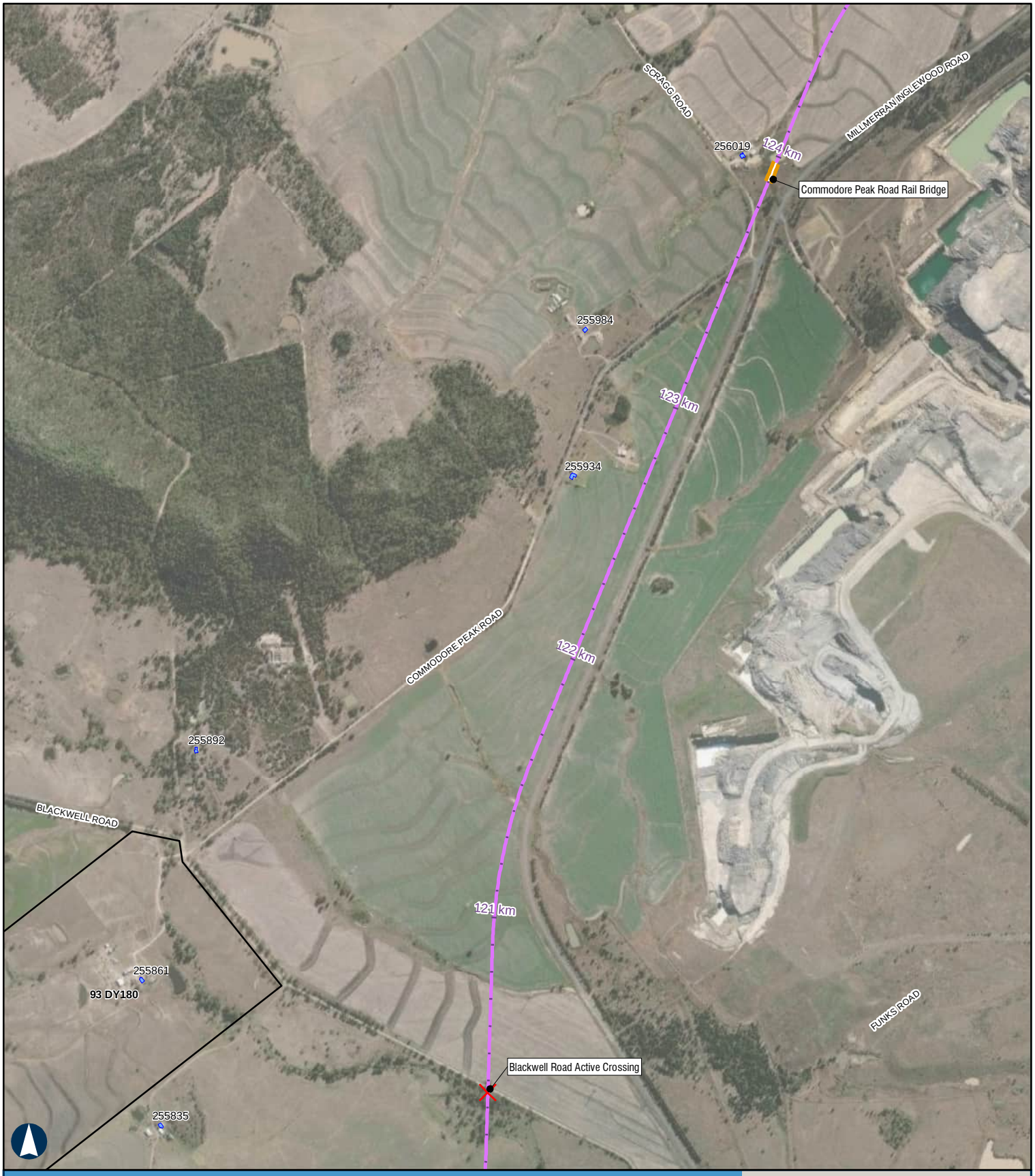

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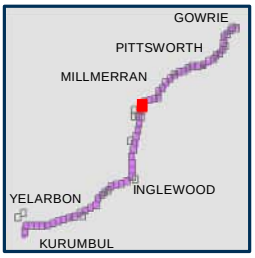

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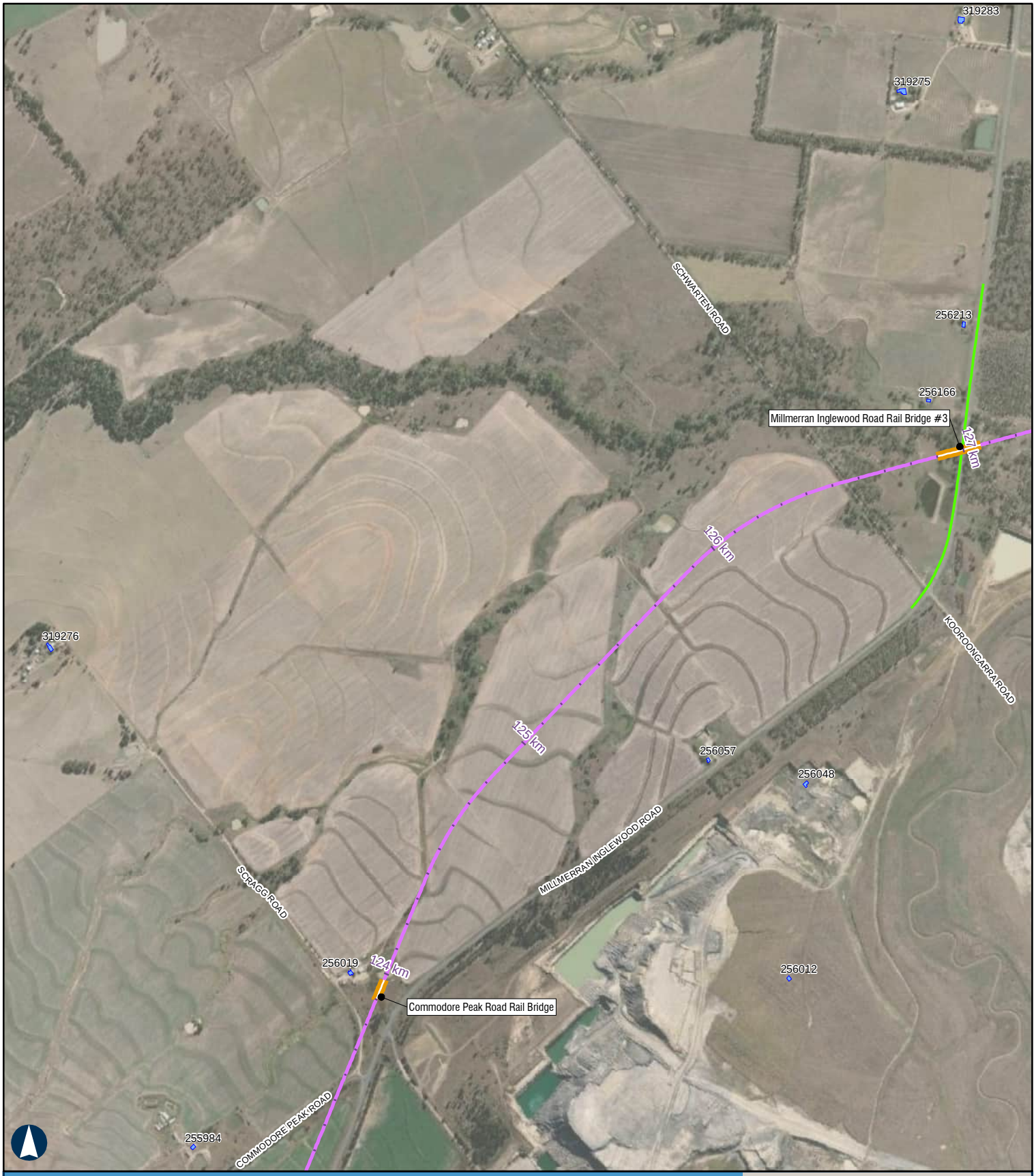

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 45 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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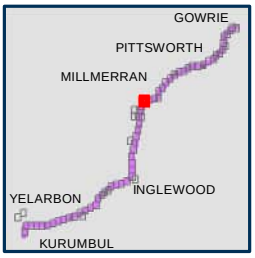
Paper: A4 Scale: 1:19,000
Date: 05-Nov-2024
Author: JG

- Level Crossings
- Project Road Designs
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Borrow Pit Site Layout

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments



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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 46 of 78

500 m

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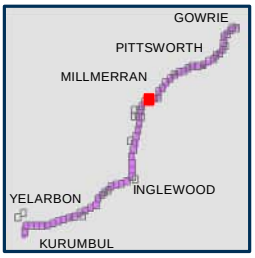

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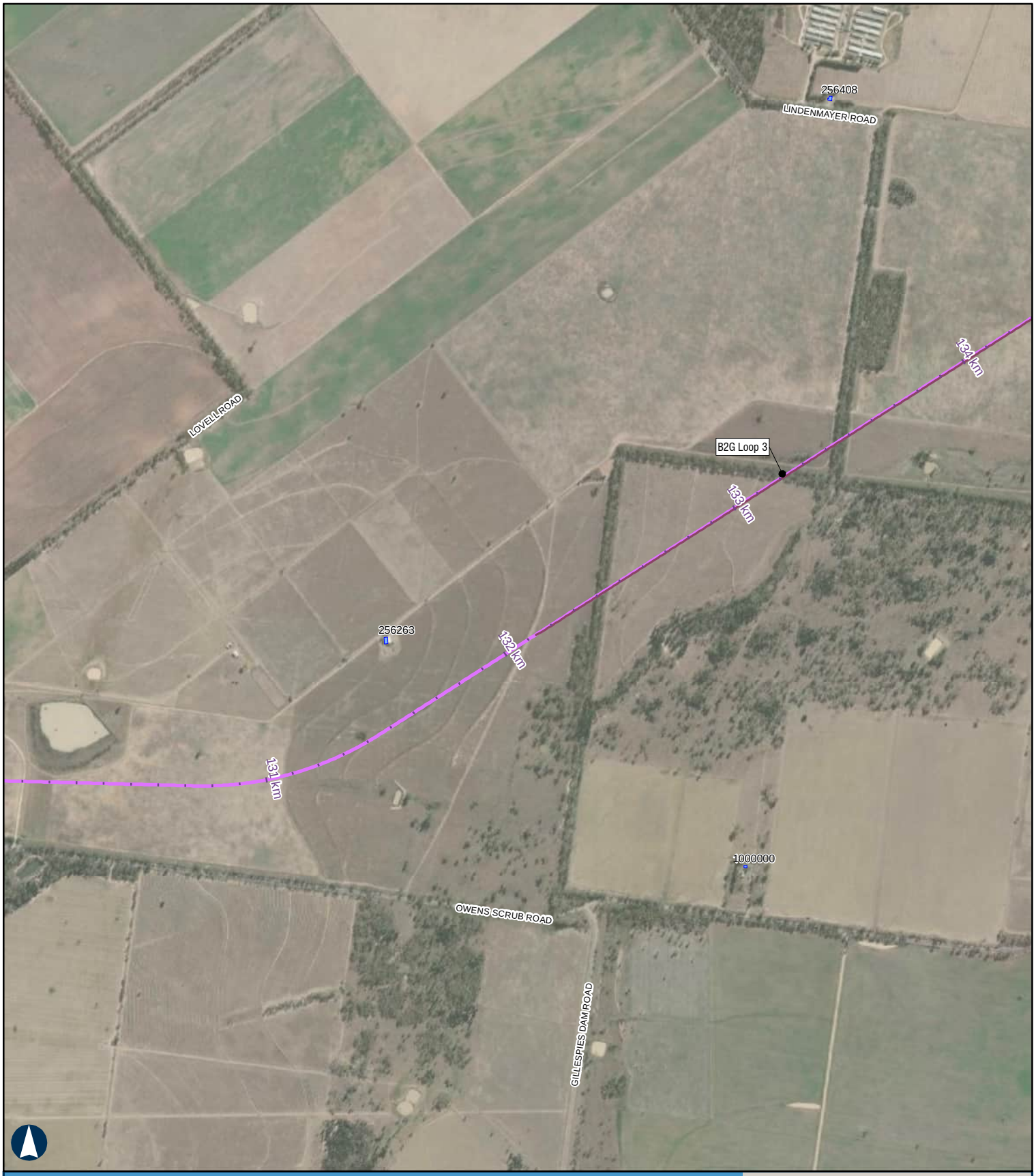

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 47 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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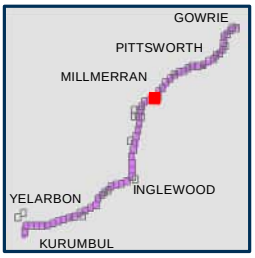

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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 48 of 78

500 m

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Sensitive Receptor Type

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- Commercial
- Parkland
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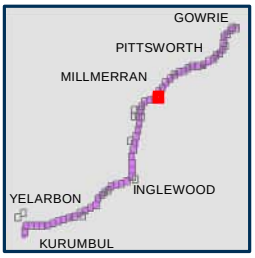

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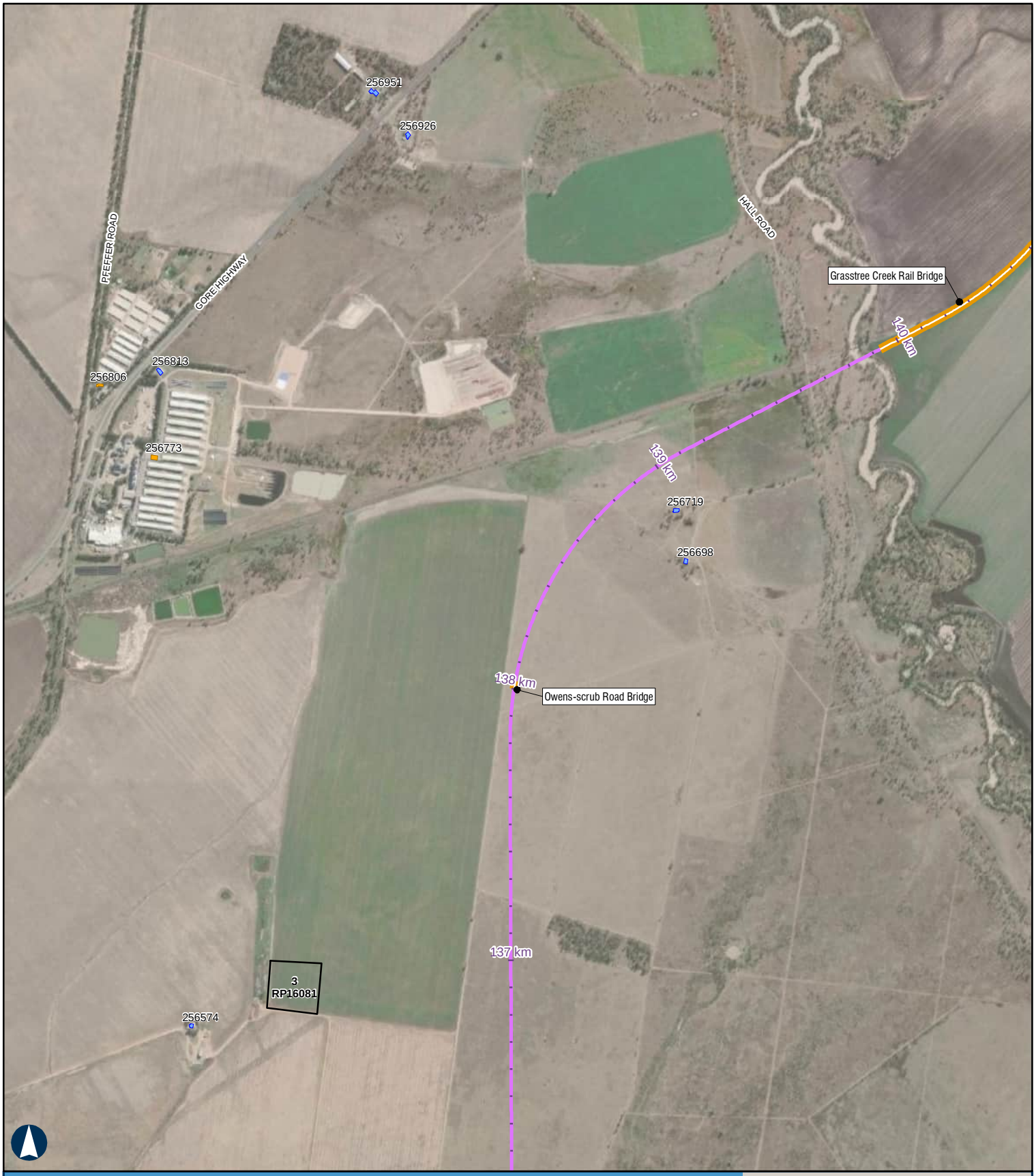

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 49 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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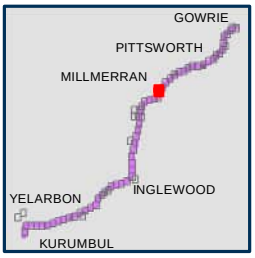
- Commercial
- Parkland
- Future Developments



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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 50 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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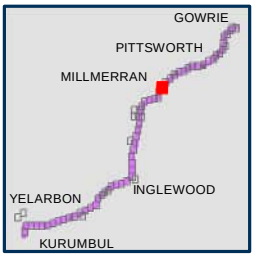

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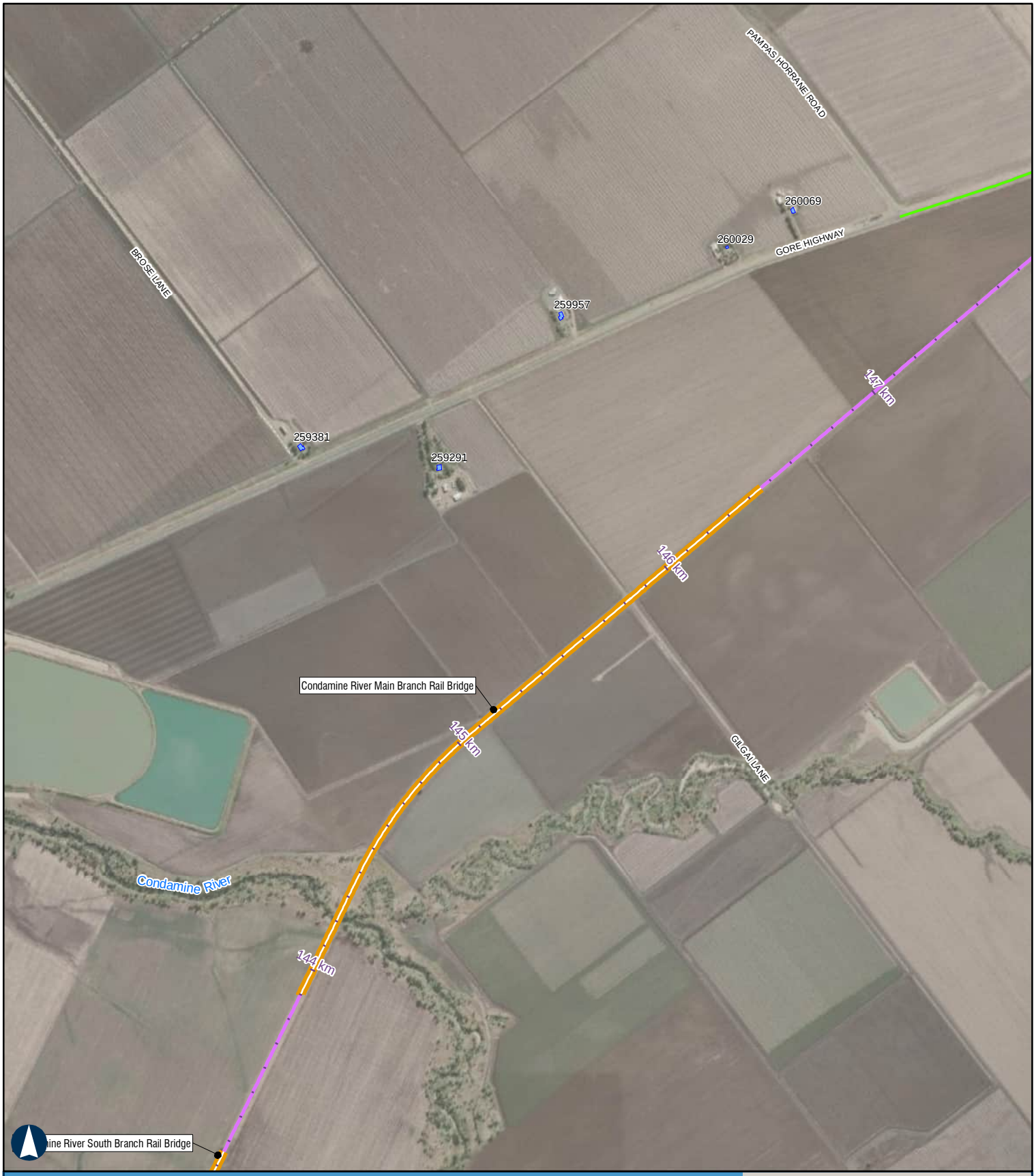

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 51 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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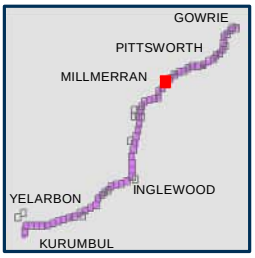
- Parkland
- Future Developments



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Sensitive Receptors

APPENDIX A - Map 52 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type

- Residential
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- Educational
- Commercial
- Parkland
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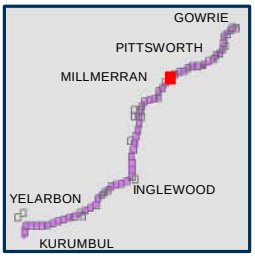

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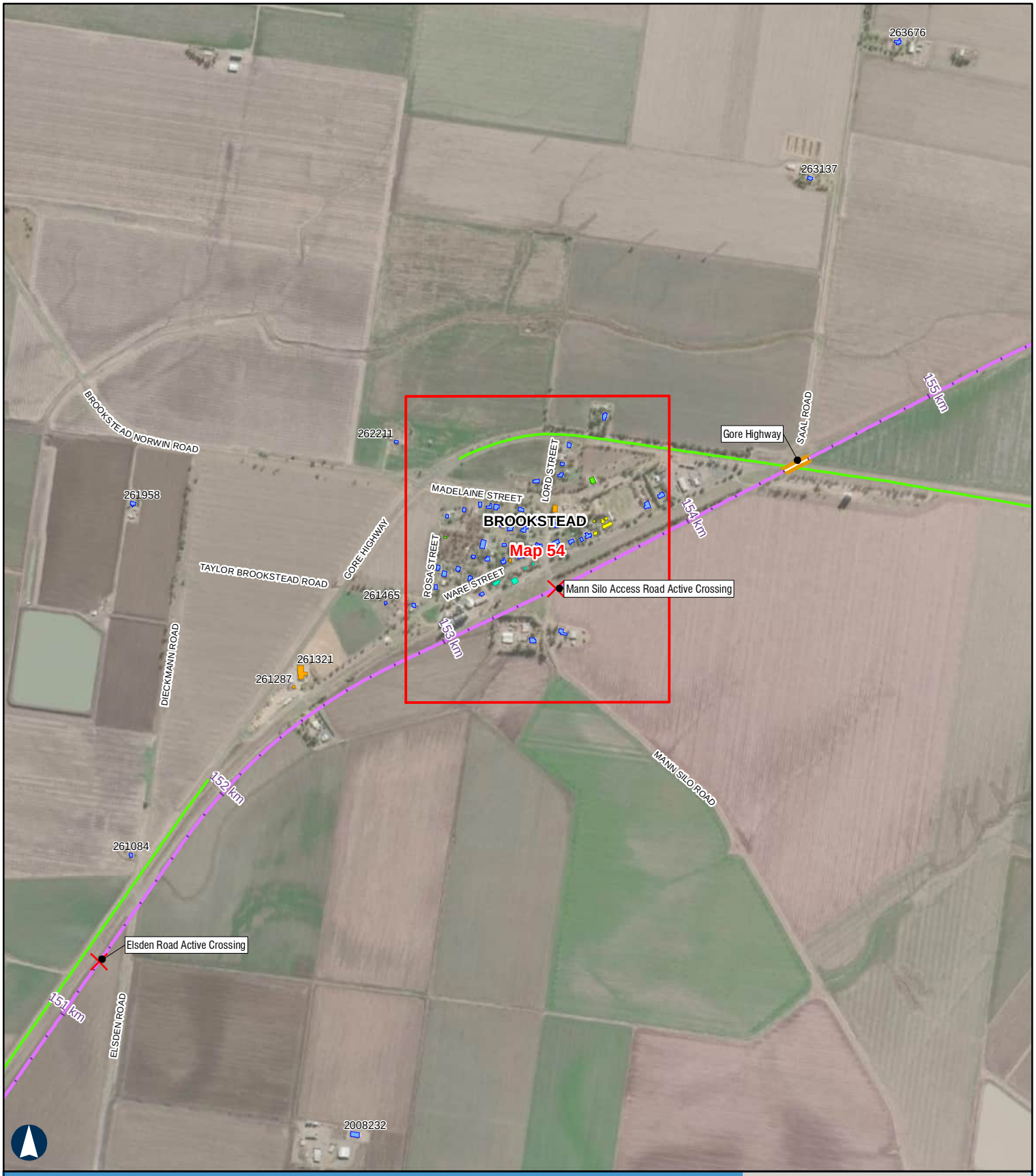

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Sensitive Receptors

APPENDIX A - Map 53 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Project Road Designs
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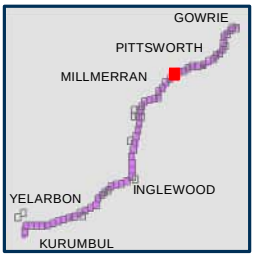
- Borrow Pit Site Layout

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments



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Sensitive Receptors

APPENDIX A - Map 54 of 78

130 m

Coordinate System: GDA 1994 MGA Zone 56

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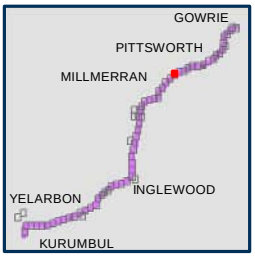

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Sensitive Receptors

APPENDIX A - Map 55 of 78

500 m

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Sensitive Receptor Type

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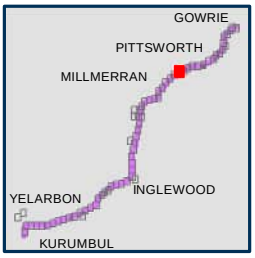

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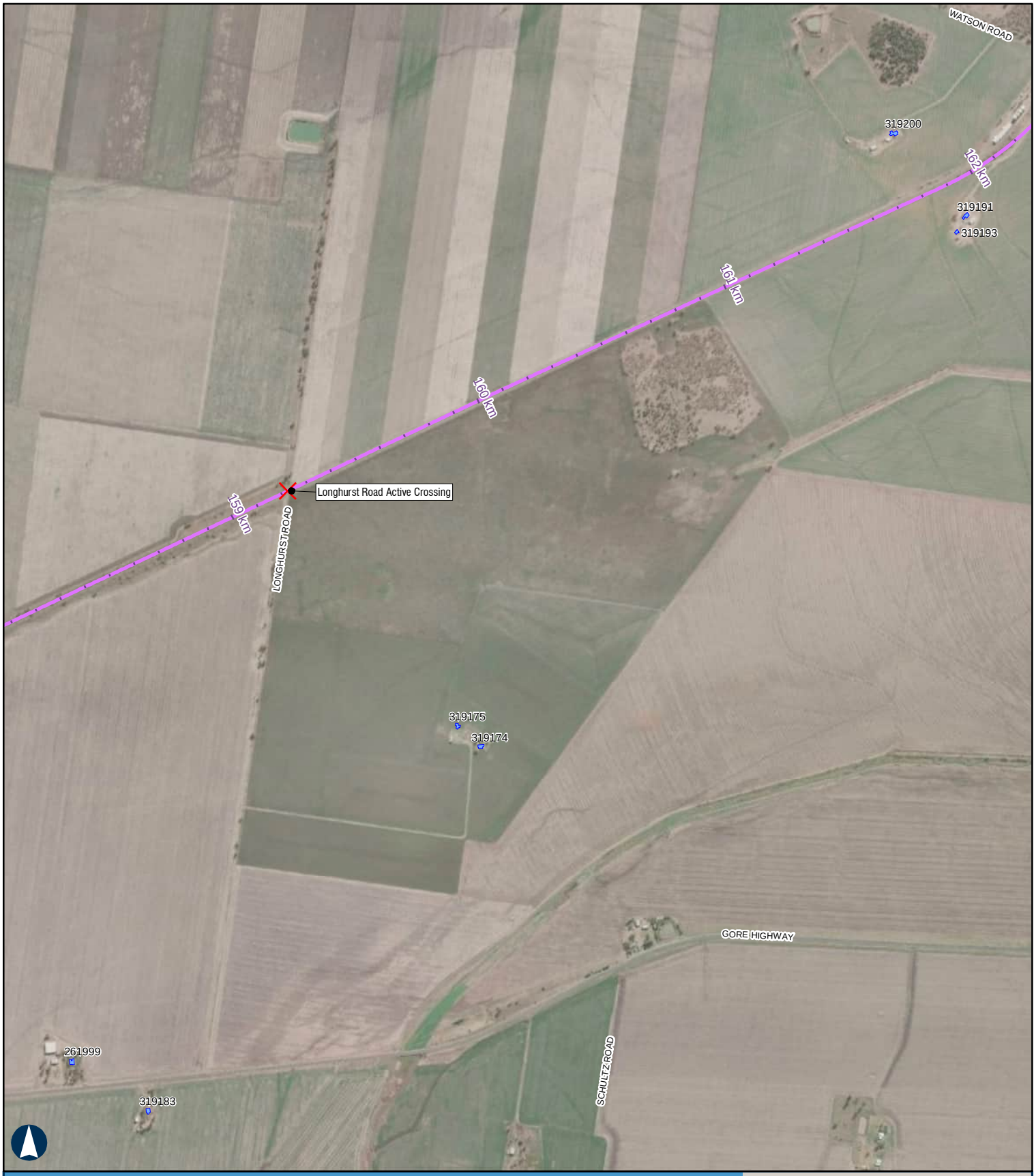

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 56 of 78

500 m

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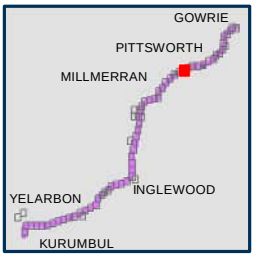

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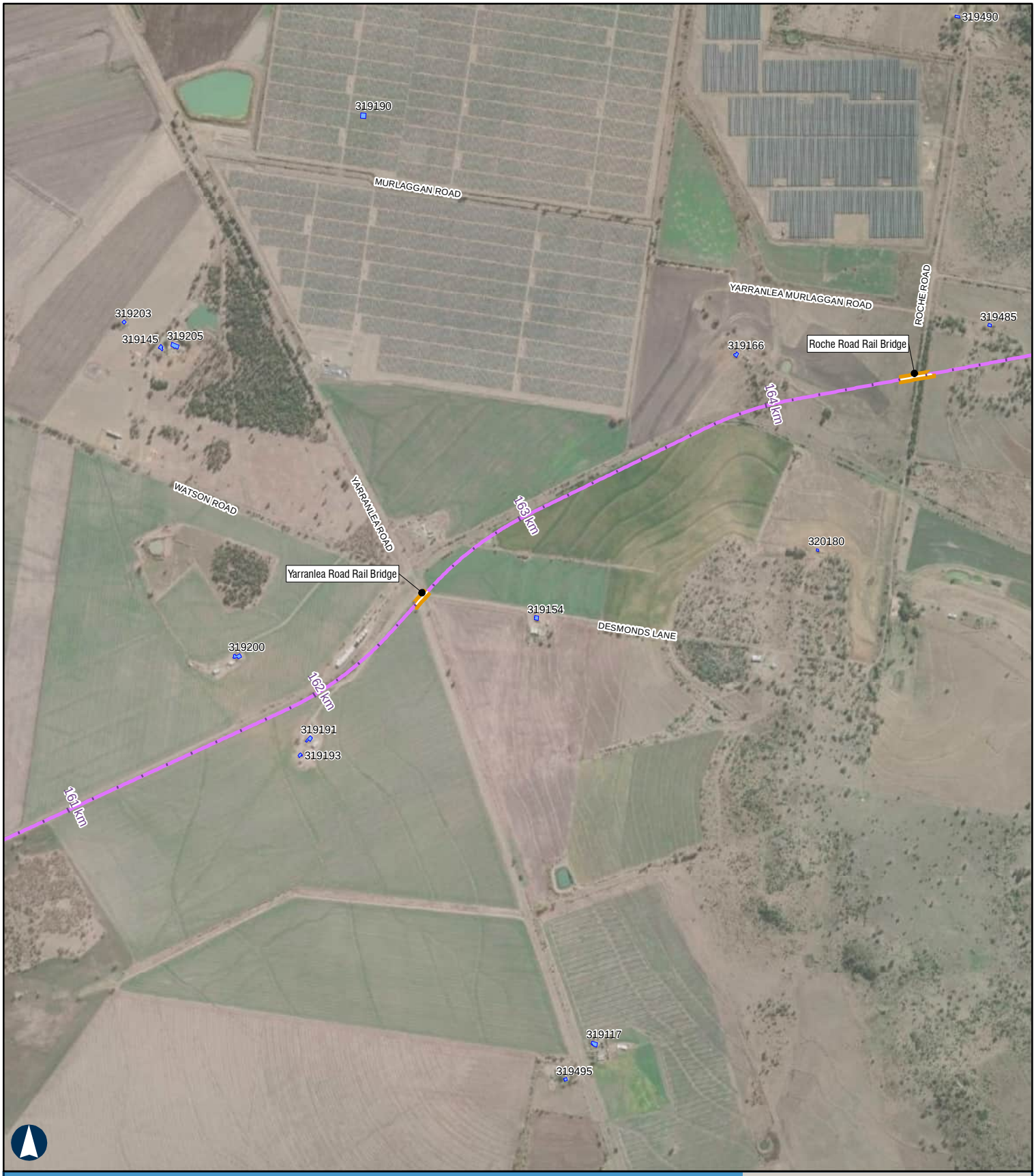

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Sensitive Receptors

APPENDIX A - Map 57 of 78

500 m

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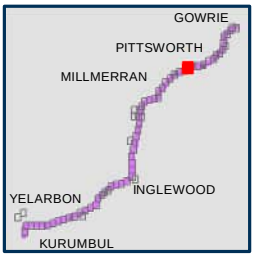

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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 58 of 78

500 m

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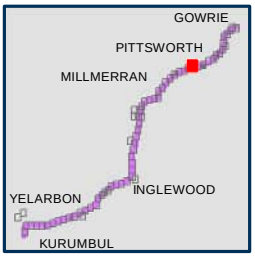

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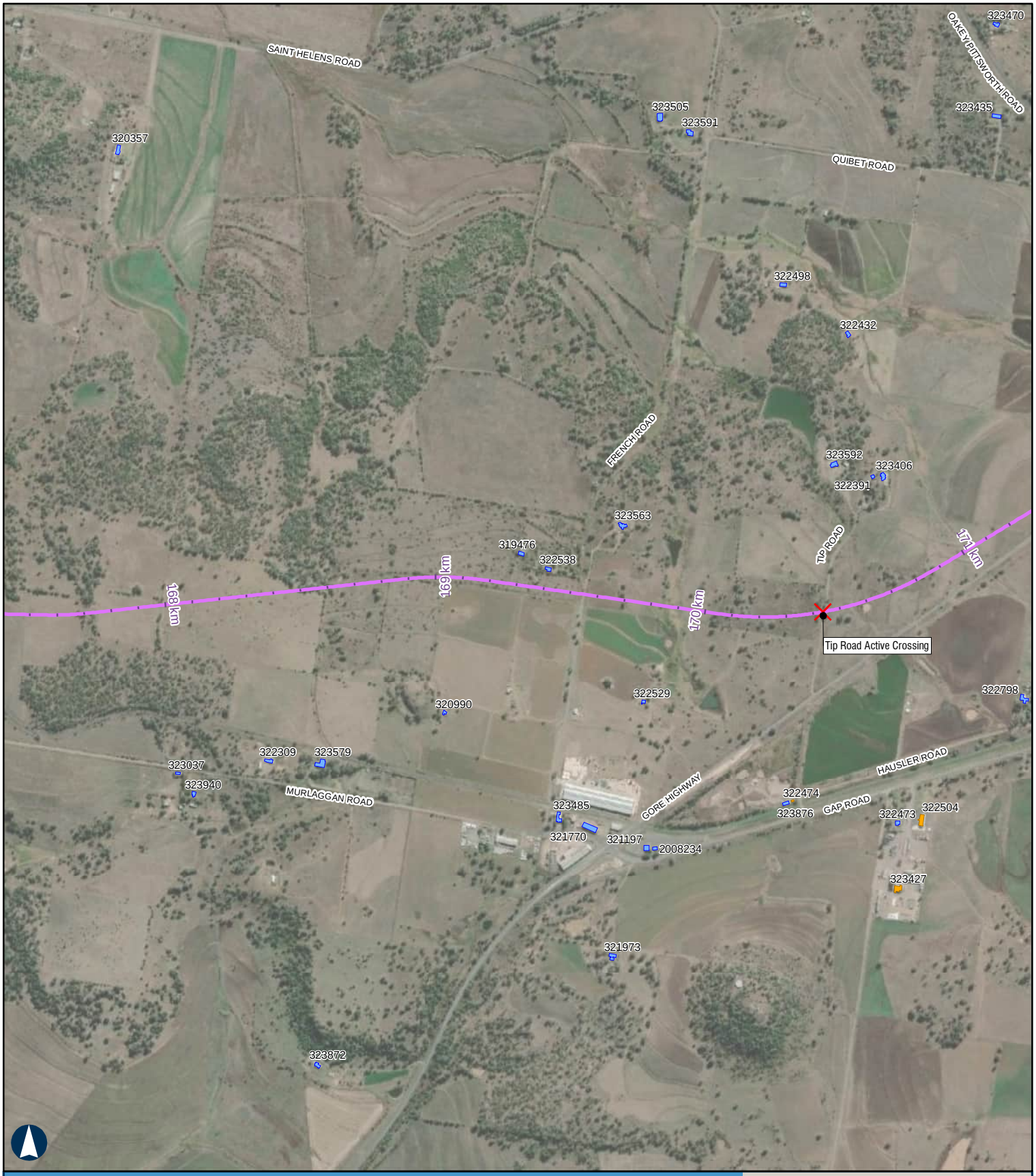
Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 59 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 05-Nov-2024
Author: JG

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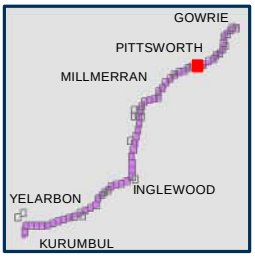

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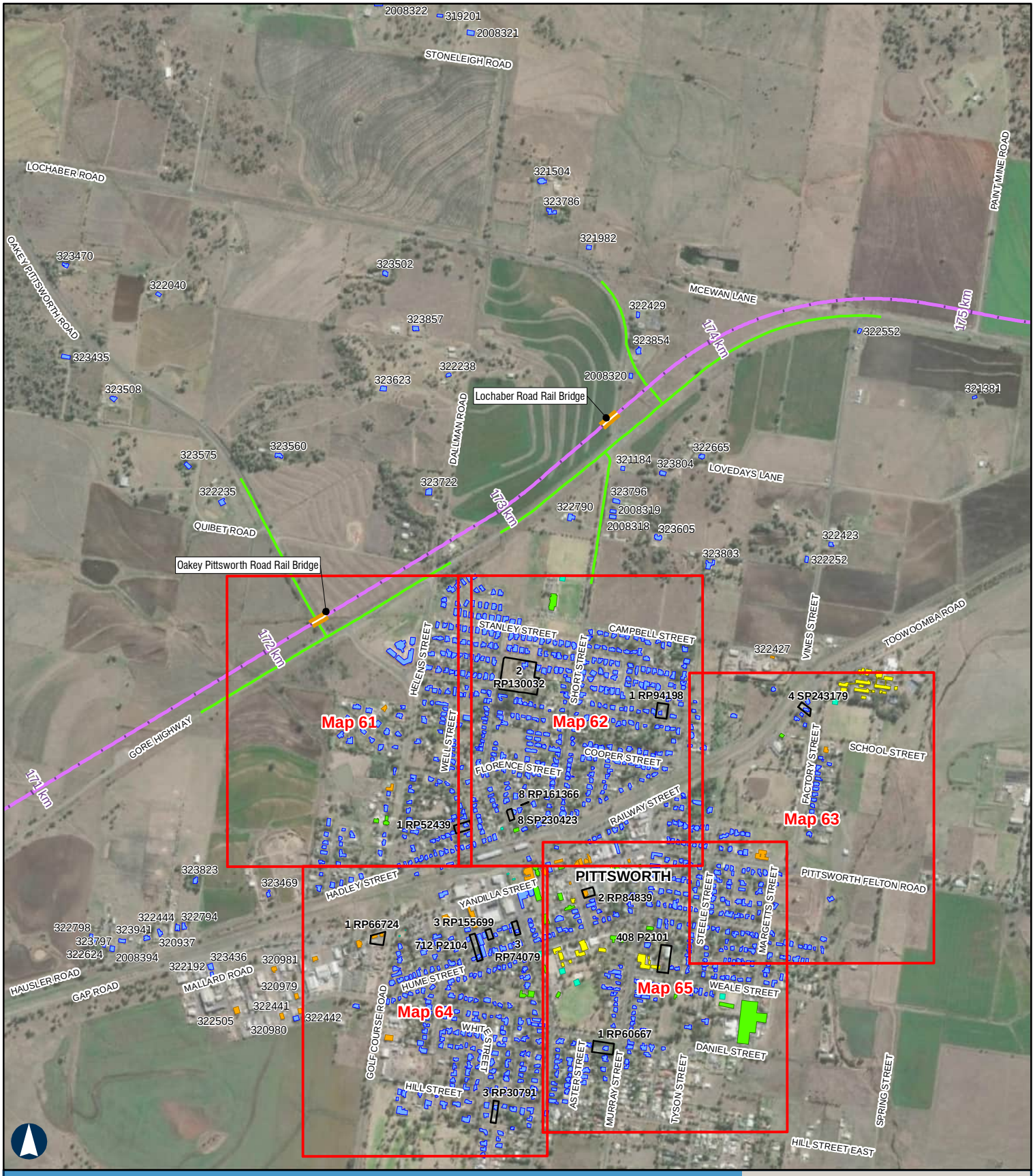

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 60 of 78

500 m

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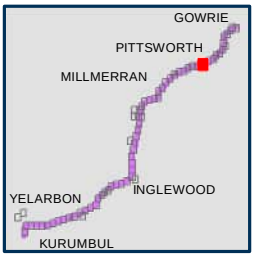

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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 61 of 78

130 m

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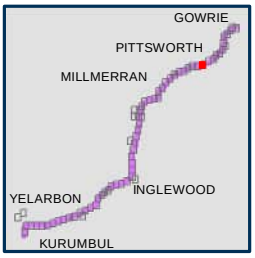

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Sensitive Receptors

APPENDIX A - Map 62 of 78

130 m

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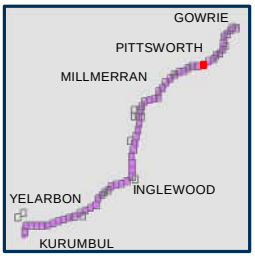

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Sensitive Receptors

APPENDIX A - Map 63 of 78

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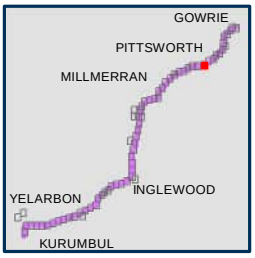

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APPENDIX A - Map 64 of 78

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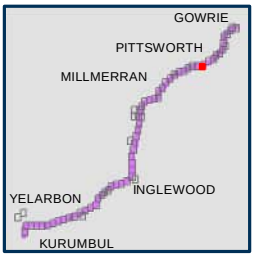

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130 m

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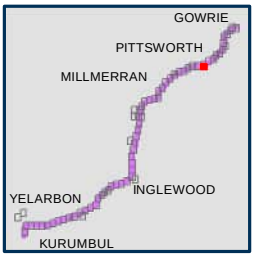

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Sensitive Receptors

APPENDIX A - Map 66 of 78

500 m

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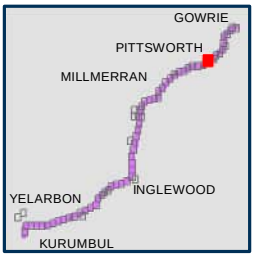

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APPENDIX A - Map 67 of 78

500 m

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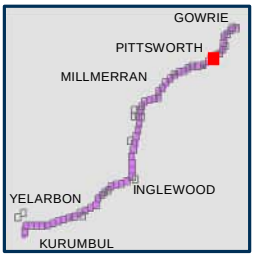

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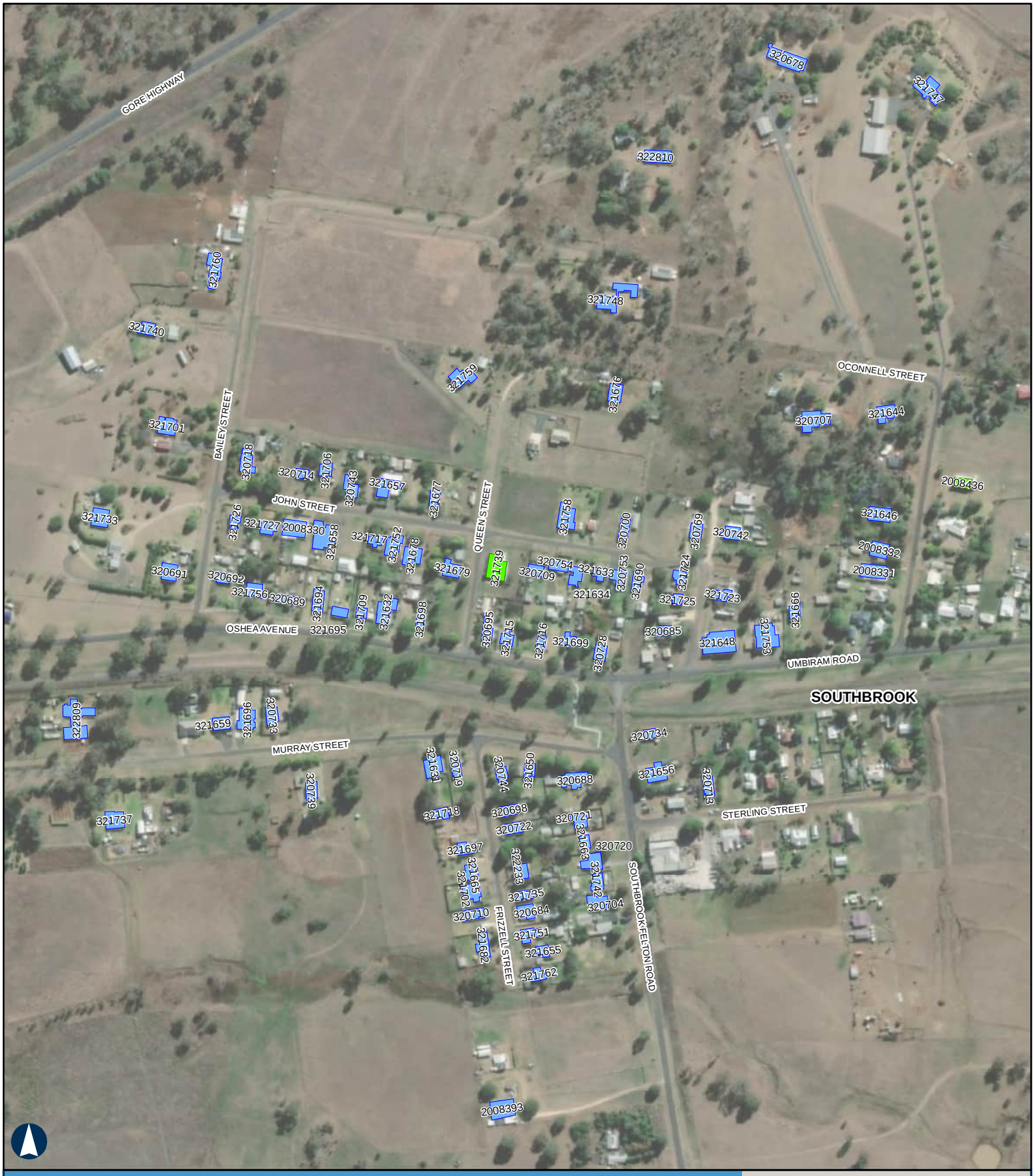

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 68 of 78

130 m

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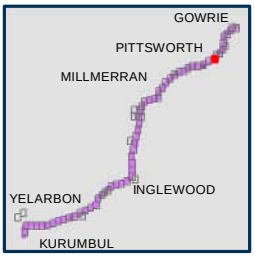

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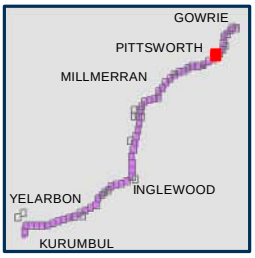

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APPENDIX A - Map 70 of 78

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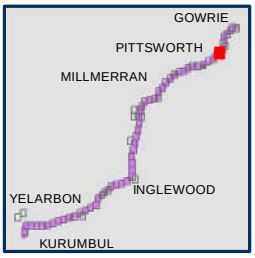

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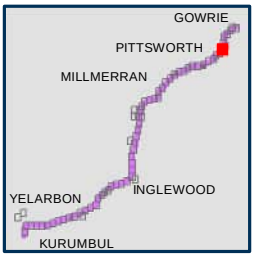

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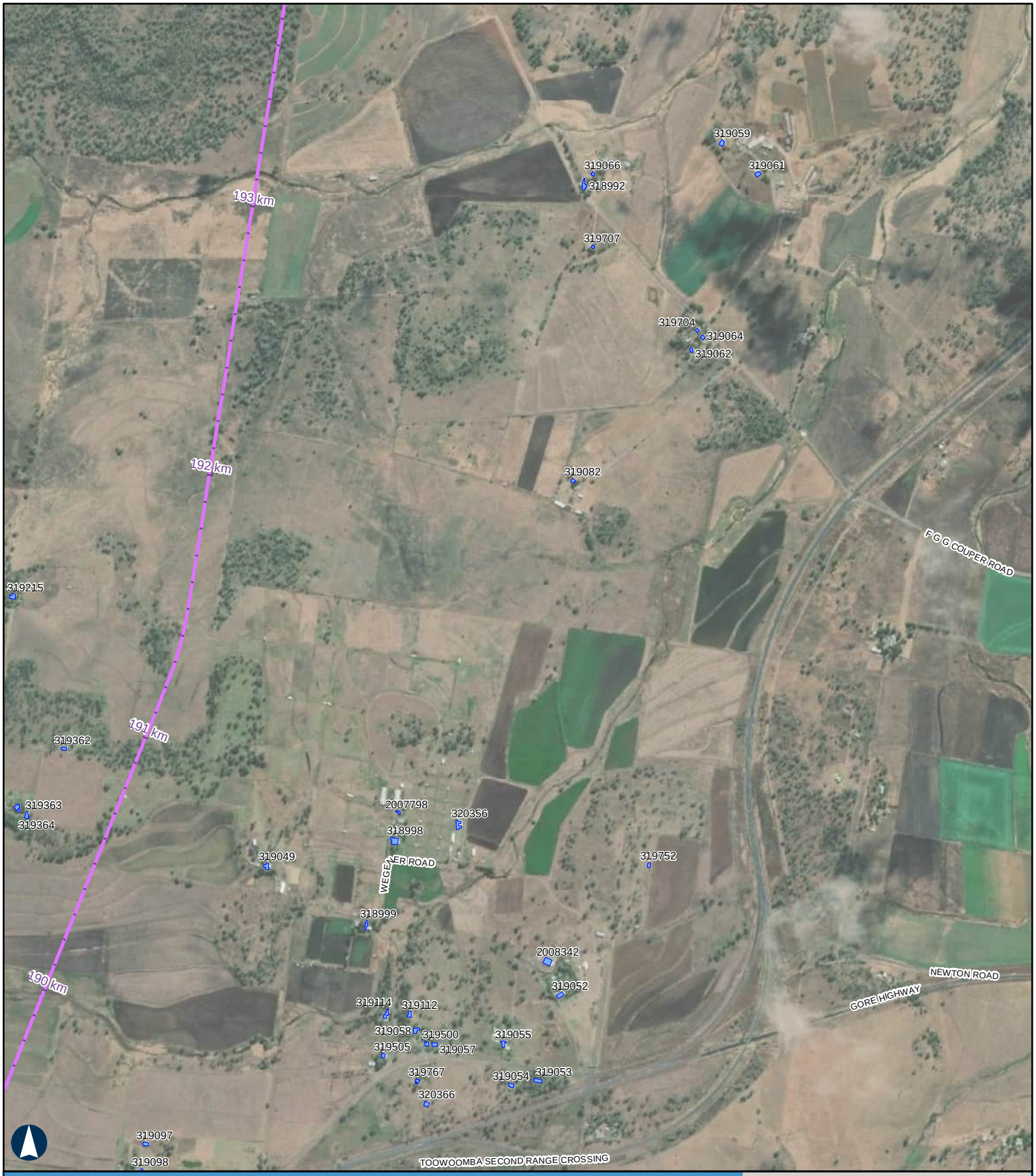

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APPENDIX A - Map 72 of 78

500 m

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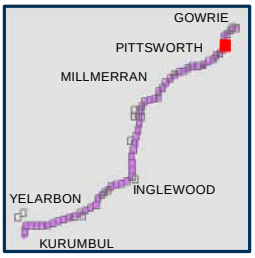

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APPENDIX A - Map 73 of 78

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 05-Nov-2024
Author: JG

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- Project Extent
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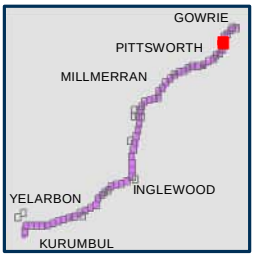
- Rail Alignment/ Centreline
- Borrow Pit Site Layout

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments



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H:\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R\06 SLR Data\01 CADGIS\GIS\Construction noise contour\620031489_NoiseContours_Receptors.mxd
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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 74 of 78

500 m

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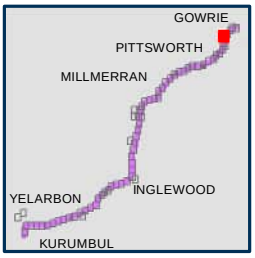

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BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 75 of 78

500 m

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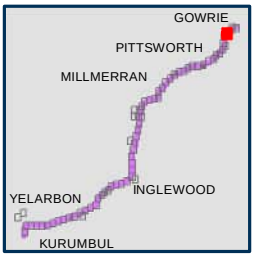

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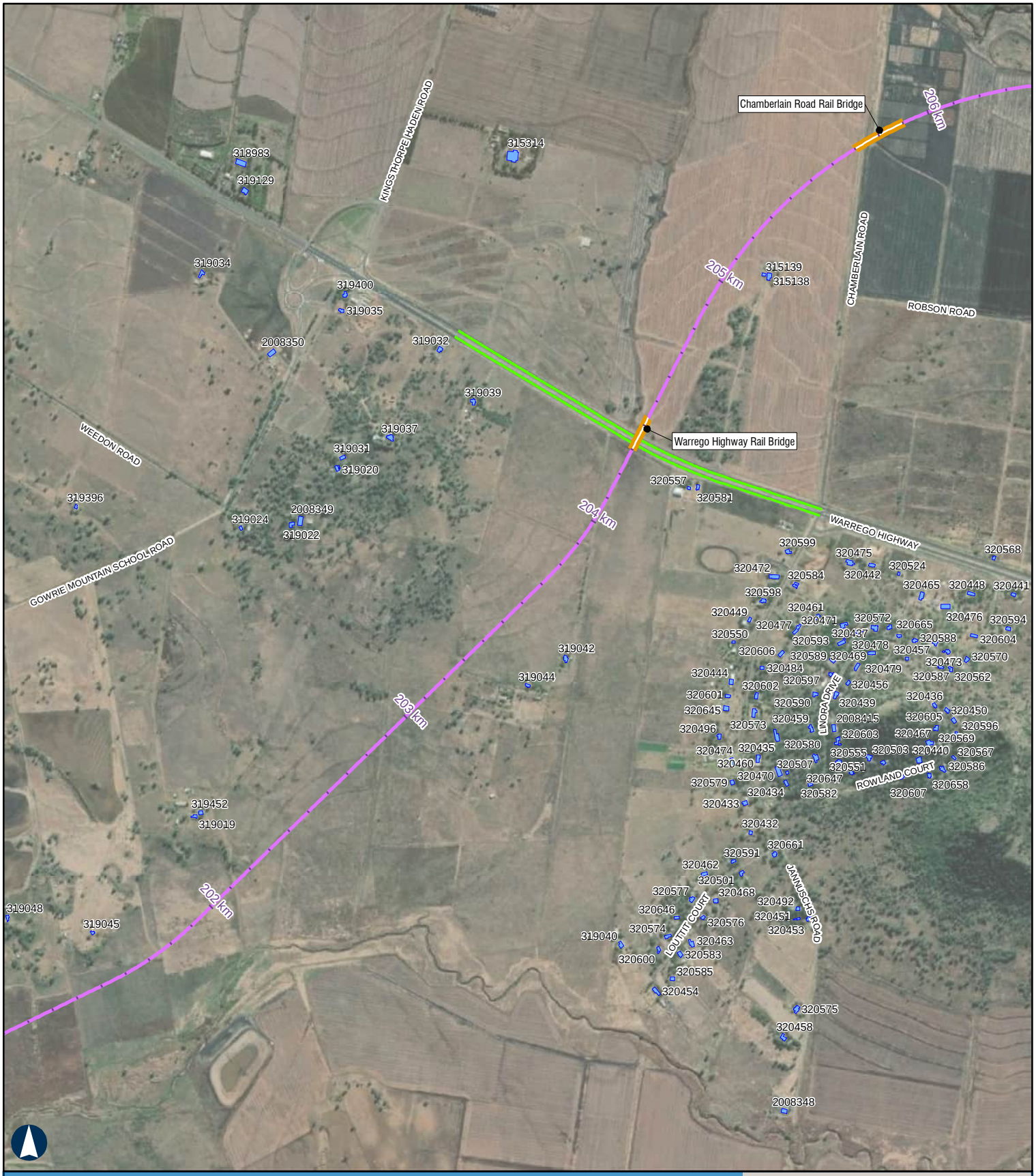

BORDER TO GOWRIE

Sensitive Receptors

APPENDIX A - Map 76 of 78

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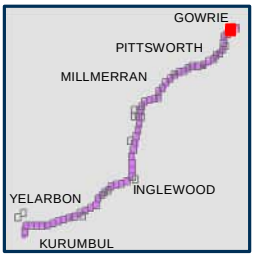

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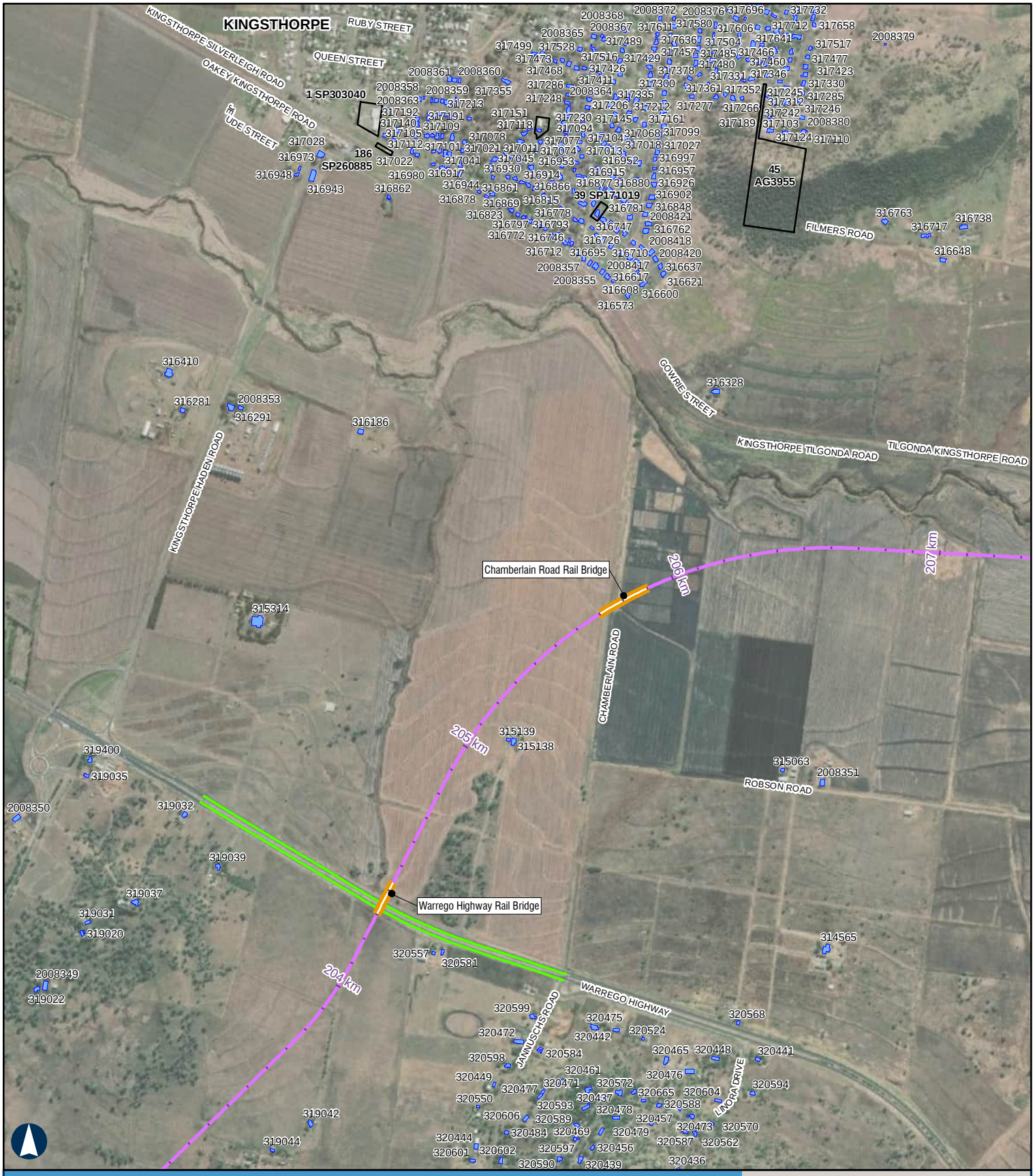

BORDER TO GOWRIE

Sensitive Receptors

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500 m

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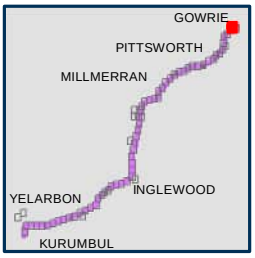

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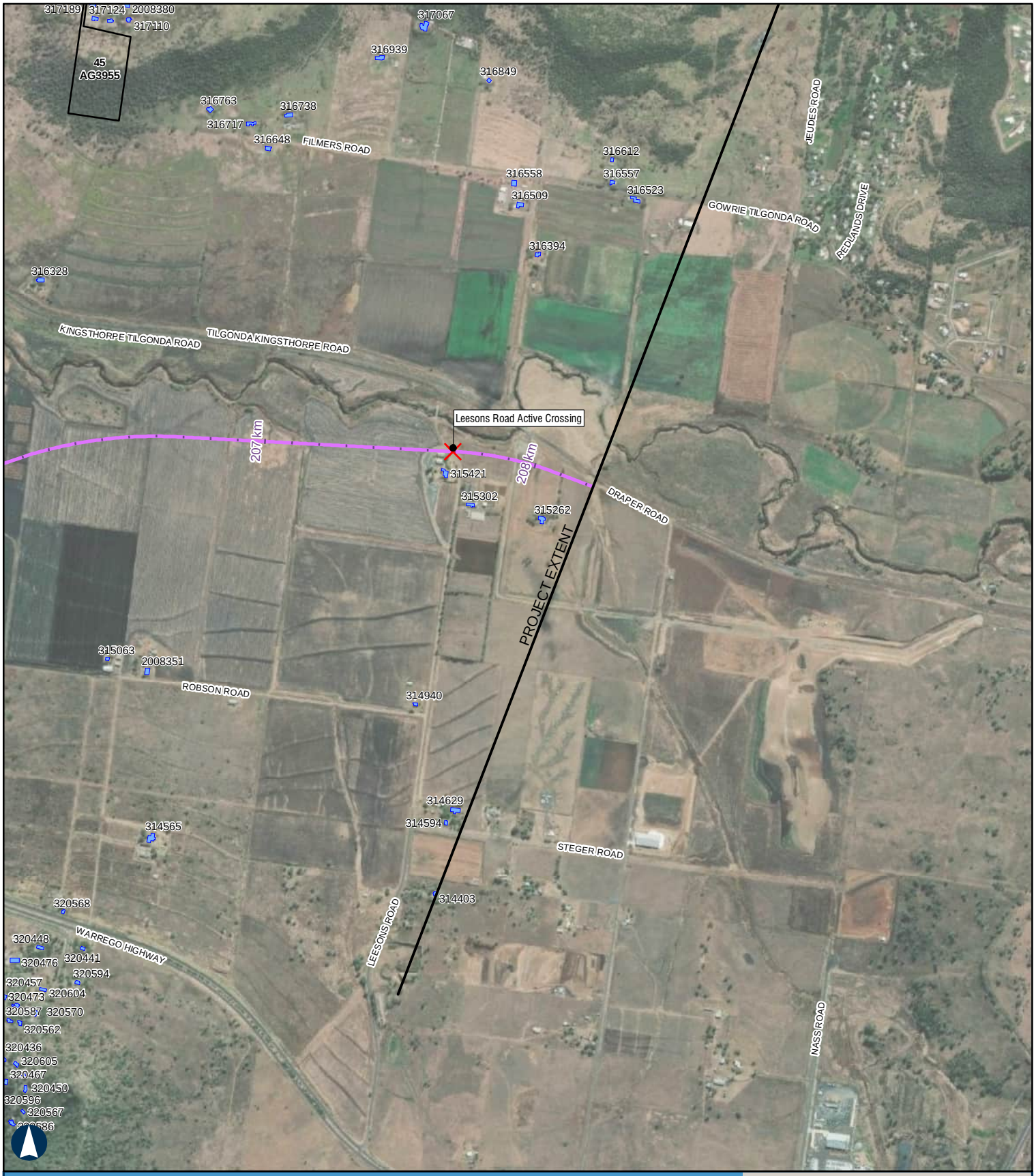

BORDER TO GOWRIE

Sensitive Receptors

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500 m

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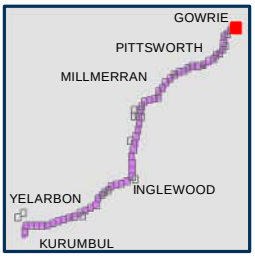

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Receptor type	Receptor ID	Receptor description	Chainage	Distance to B2G rail alignment (m)
Community	254564	Yelarbon Soldiers Memorial Hall	26.1	66
	254592	Yelarbon Fire Station	26.4	67
	260123	Pampas Memorial Hall	148.3	79
	261738	Community	153.2	347
	262035	Brookstead Hall	153.8	300
	318994	Community	192.7	1228
	319762	Community	193.9	906
	320847	Soldiers Memorial School of Arts, Pittsworth	172.5	1196
	320888	Pittsworth Masonic Centre	172.5	1393
	321378	Pittsworth Fire Station	172.8	1385
	321739	Southbrook Hall	181.0	1682
	321765	Pittsworth Library	172.4	1278
	321787	Pittsworth Function Centre	172.4	1533
	322109	Pittsworth Uniting Church	172.2	1600
	322541	Weale St basketball courts	172.6	1863
	322790	Harvest New Life Church Pittsworth	173.2	170
	323481	Pittsworth childcare centre	172.4	1407
	323677	Anglican Church of Australia, Pittsworth	172.7	1605
	323764	St Stephens Church, Pittsworth	172.6	1582
	323776	St Stephens Church, Pittsworth	172.6	1556
	323861	Saint Peter's Lutheran Church, Pittsworth	172.5	1047
	323863	Saint Peter's Lutheran Church, Pittsworth	172.5	1036
	2008434	Grand Street Park, Pittsworth	172.4	1013
Educational	254515	Yelarbon State School	26.3	278
	254527	Yelarbon State School	26.3	259
	261749	Brookstead State School	153.7	117
	261795	Brookstead State School	153.7	124
	261821	Brookstead State School	153.7	142
	261823	Brookstead State School	153.7	158
	261831	Brookstead State School	153.8	146
	320693	Southbrook Central State School	180.5	1097
	320726	Southbrook Central State School	180.5	1096
	320741	Southbrook Central State School	180.4	1069
	320763	Southbrook Central State School	180.5	1102
	320848	Pittsworth Kindergarten, Pittsworth	172.4	1533
	320893	St Stephens Catholic Primary School, Pittsworth	172.6	1663
	320894	Pittsworth State School	172.4	1486
	320958	Pittsworth Primary School	172.4	1549
	321057	Pittsworth State High School	173.6	1394
	321060	Pittsworth State High School	173.6	1304
	321289	Pittsworth State High School	175.0	1415
	321588	Pittsworth State High School	173.7	1377
	321643	Southbrook Central State School	180.4	1027
	321670	Southbrook Central State School	180.5	1086
	321774	Pittsworth Civic Pool	172.7	1328
	321913	Pittsworth Primary School	172.3	1550
	322099	Pittsworth State High School	173.6	1352
	322113	Pittsworth Primary School	172.4	1542
	322378	St Stephens Catholic Primary School, Pittsworth	172.6	1702
	322379	St Stephens Catholic Primary School, Pittsworth	172.6	1688
	322428	St Stephens Catholic Primary School, Pittsworth	172.6	1725
	322576	Pittsworth State High School	173.5	1322
	322664	Pittsworth State High School	173.6	1378
	322813	Southbrook Central State School	180.5	1073
	322848	Pittsworth Kindergarten	172.5	1366
	323514	Pittsworth Primary School	172.5	1587
	323537	Pittsworth State High School	173.6	1406
	323889	Pittsworth State High School	173.7	1302
	323890	Pittsworth State High School	173.7	1331
	2008433	Wellcamp Airport new	196.7	1858

Receptor type	Receptor ID	Receptor description	Chainage	Distance to B2G rail alignment (m)
Emergency services	254513	Yelarbon Police Station	26.5	341
	260154	Pampas Rural Fire Shed	148.6	49
	321427	Piitsworth Ambulance Station	172.1	759
	321668	Southbrook Rural Fire Shed	180.6	1236
	322165	Piitsworth Ambulance Station	172.1	751
	322315	Pittsworth State Emergency Services	173.3	1298
	322474	Unidentified	170.3	681
	322658	Pittsworth Police Station	172.5	1239
	323479	Pittsworth Fire and Rescue Station	172.8	1382
	323807	Pittsworth Ambulance Station	172.0	749
	323874	Unidentified	172.6	1368

Lot plan	Approved future development
14SP127017	Concrete batch plant in Kurumbul
54SP169191	Cattle feedlot in Kurumbul
1SP327036	Petrol station in Yelarbon
3Y56918	Transport depot in Yelarbon
2SP318369	Dwelling at 48 Burrel Street Yelarbon
2Y5699	Yelarbon Police Station
1SP214649	Quarry adjacent to Bringalily State Forest
93DY180	Blackwell Road, Clontarf
4RP907313	Warehouse in Brookstead
2RP7475	Solar farm in Yarranlea
1AG4028	Trailer manufacturer in Pittsworth
4SP243179	Dwelling at 4 Railway Street Pittsworth
408P2101	St Stephens Primary School Pittsworth
8RP161366	Dwelling at 10 Forest Street Pittsworth
3RP155699	Dwelling at 34 Evans Street Pittsworth
8RP161366	Dwelling at 4 Forest Street Pittsworth
1ST113265	Industrial use at 8 Mallard Road Pittsworth
11RP158383	Industrial use at 1 Grevillea Street Pittsworth
1RP52439	Dwelling at 11 Edward Street Pittsworth
1RP60667	Dwelling at 43 Murray Street Pittsworth
1RP66724	Industrial use at 154 Yandilla Street Pittsworth
1RP94198	Dwelling at 3 Copp Street Pittsworth
2RP130032	Community use at 16 Pioneer Way Pittsworth
2RP84839	Commercial use at 46 Short Street Pittsworth
2RP880145	Industrial use at 32 Grevillea Street Pittsworth
3RP30791	Dwelling at 27 Hill Street Pittsworth
3RP74079	Dwelling at 22 Evans Street Pittsworth
4RP158383	Industrial use at 35 Grevillea Street Pittsworth
712P2104	Dwelling at 69 Hume Street Pittsworth
8SP230423	Dwelling at 14 Forest Street Pittsworth
10RP212401	Industrial use in Southbrook
2AG1900	Industrial use in Southbrook
86RP212401	Industrial use in Southbrook
3AG3669	Roadside billboard in Gowrie Mountain
2SP308326	Service station in Kingsthorpe
186SP260885	Gowrie Little Plain fire brigade
1SP303040	Kingsthorpe Medical
39SP171019	Dwelling at 30 Katherine Crescent Kingsthorpe
51RP204786	Dwelling at 2 Georgina Court Kingsthorpe
45AG3955	Mount Kingsthorpe Reserve
10SP342301	Worker accommodation camp at 787 Lindenmayer Road Millmerran

APPENDIX V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix B Noise monitoring data

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Inland Rail is a subsidiary of
Australian Rail Track Corporation

INLAND RAIL

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_01

From	Wednesday 5/12/2018 8:00	Calibrator Type	Quest QC-20	RP Lot#	38/MH728
To	Wednesday 12/12/2018 8:15	Cal. Serial No.	CA-BNE-04-F-154	Package	Border to Gowrie
Instrument Type	Larson Davis 831	Meas. Type	Free Field	Address	16 Georges Lane
Instrument Serial #	1639	Mic. Height (m)	1.8	Suburb	Kurumbul
Inst. Cal. Date	13/11/2017	Weather Station	No	Land Use	Residential
Pre Calibration	94	Operator	JR	Latitude	28°36'51.28"S
Post Calibration	94	Sample Int.	15 min	Longitude	150°33'11.22"E

Daytime

RBL **29.4 dB(A)**

ABLs Day (Mon-Fri 7am - 6 pm)

ABLs Day (Sat 8 am - 1 pm)

Wednesday 5/12/2018	29.1	dB(A)
Thursday 6/12/2018	29.8	dB(A)
Friday 7/12/2018	29.7	dB(A)
Saturday 8/12/2018	30.7	dB(A)
Monday 10/12/2018	28.7	dB(A)
Tuesday 11/12/2018	26.2	dB(A)

Evening

RBL **33.6 dB(A)**

ABLs Evening (Mon-Fri 6 pm - 10 pm)

ABLs Evening (Sat 1 pm - 10 pm)

ABLs Evening (Sun 7 am - 10 pm)

Wednesday 5/12/2018	35.6	dB(A)
Thursday 6/12/2018	34.2	dB(A)
Friday 7/12/2018	38.5	dB(A)
Saturday 8/12/2018	33.6	dB(A)
Sunday 9/12/2018	29.2	dB(A)
Monday 10/12/2018	29.3	dB(A)
Tuesday 11/12/2018	30.5	dB(A)

Night

RBL **28.0 dB(A)**

ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)

ABLs Night (Fri 6pm - 8am)

Wednesday 5/12/2018	28	dB(A)
Thursday 6/12/2018	28.4	dB(A)
Friday 7/12/2018	24.3	dB(A)
Saturday 8/12/2018	24.6	dB(A)
Sunday 9/12/2018	25.7	dB(A)
Monday 10/12/2018	29.8	dB(A)
Tuesday 11/12/2018	28.5	dB(A)

Site Diagram - Diagram

Future Freight
Integrating Community, Environment and Engineering

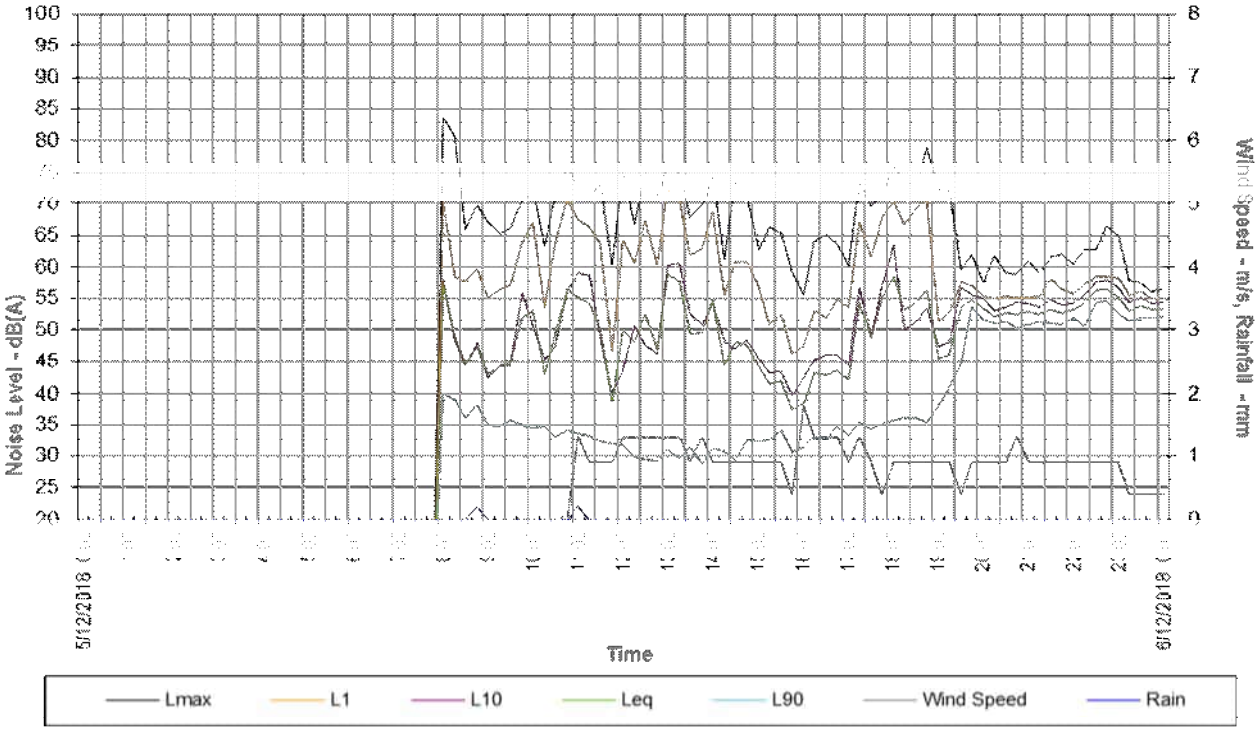
Site Attended Measurements Summary

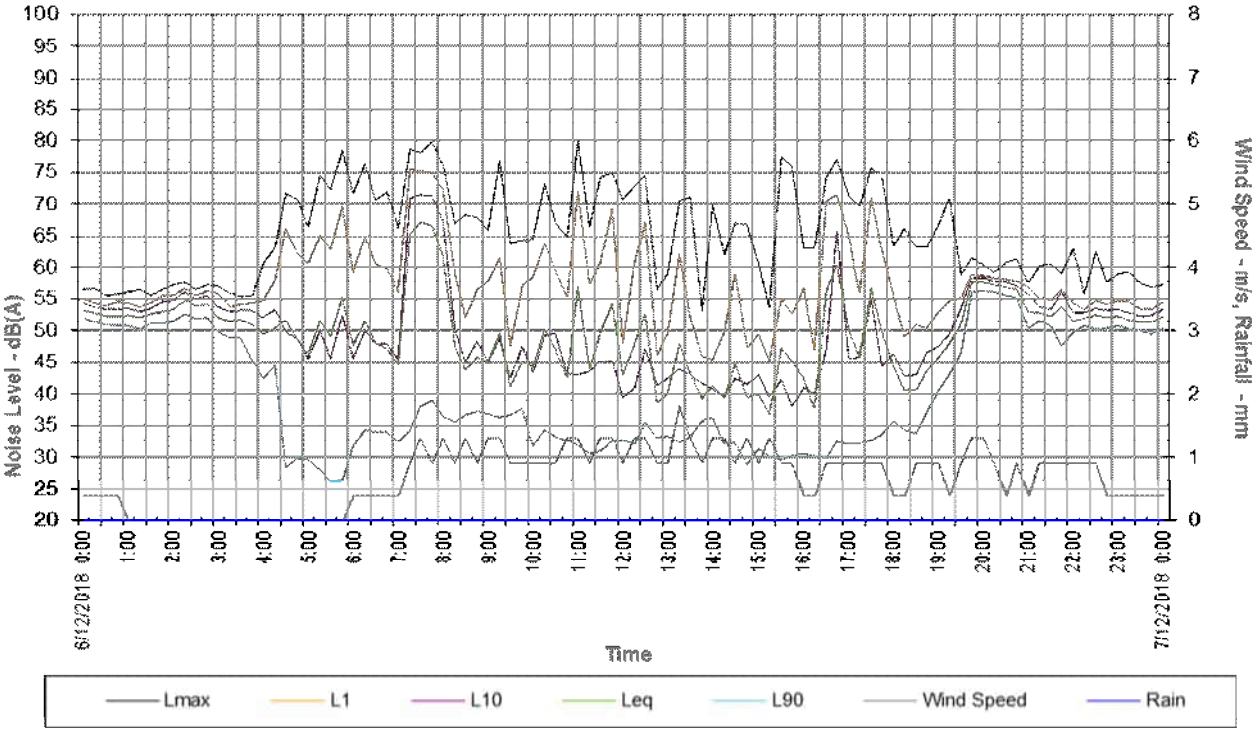
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
5/12/2018	8:00 AM	Attended	86.2	68.0	51.3	39.9	54.8	Pass	8:15 AM
		Logged	83.6	70.3	58.0	40.0	57.3		
		Difference	2.6	-2.3	-6.7	-0.1	-2.5		
Comments	Background is bird and insect noise at 40 dB(A). Dogs at 65-86 dB(A). Birds at 60 dB(A). Lawnmower in distance 48 dB(A). Moderate winds but barely audible in trees. Dogs bark heavily influenced by operator standing there.								
12/12/2018	8:15 AM	Attended	76.8	71.2	64.3	33.6	60.1	Pass	8:30 AM
		Logged	81.4	75.8	72.1	36.2	67.3		
		Difference	-4.6	-4.6	-7.8	-2.6	-7.2		
Comments	Measurements affected by continual dog barking at 58-76 dB(A) for most of the measurement. Ute at 47 dB(A). Bird noise at 34 dB(A)								

Photos

Site Noise and Weather Graphical Analysis

16 Georges Lane





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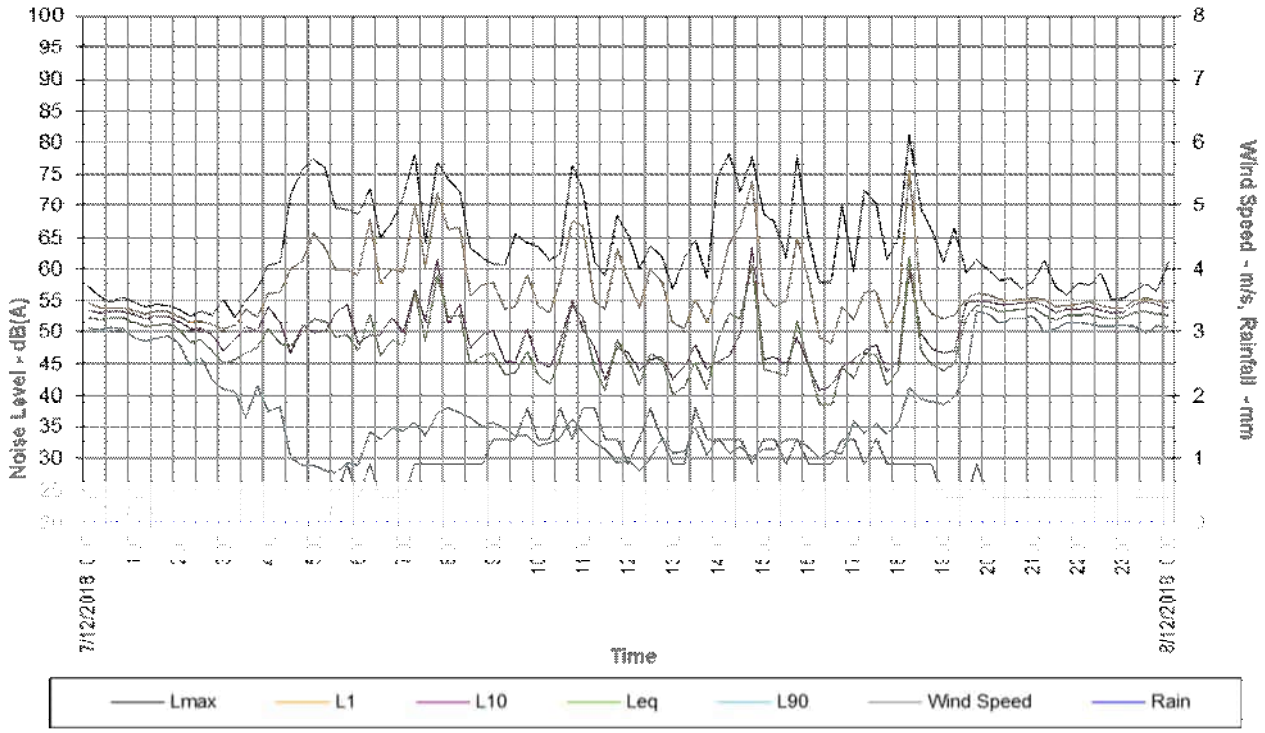

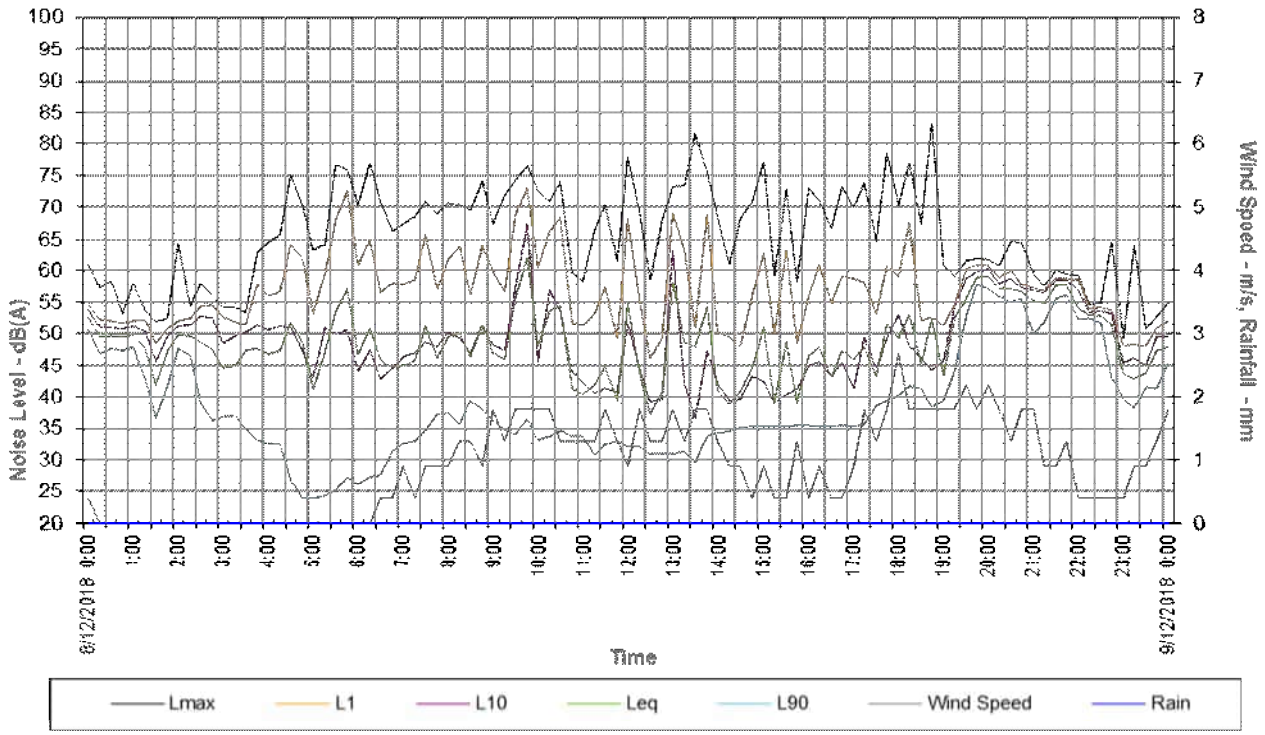

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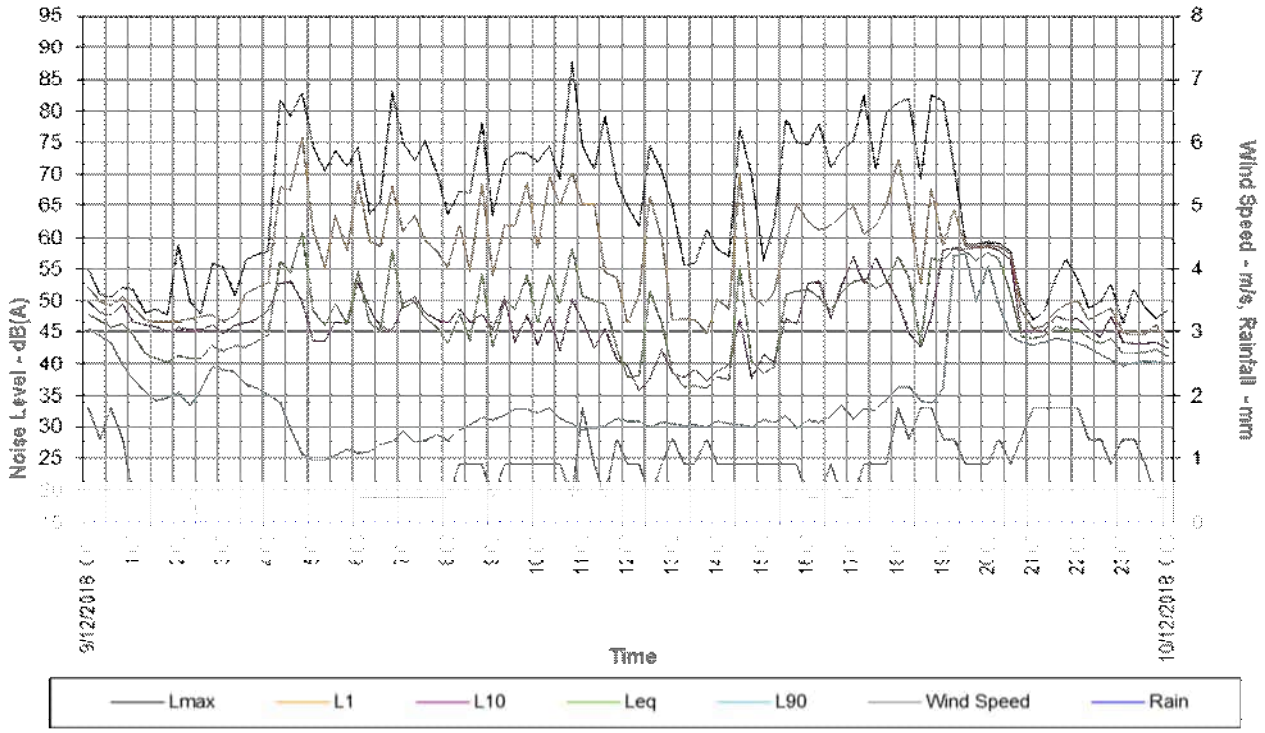

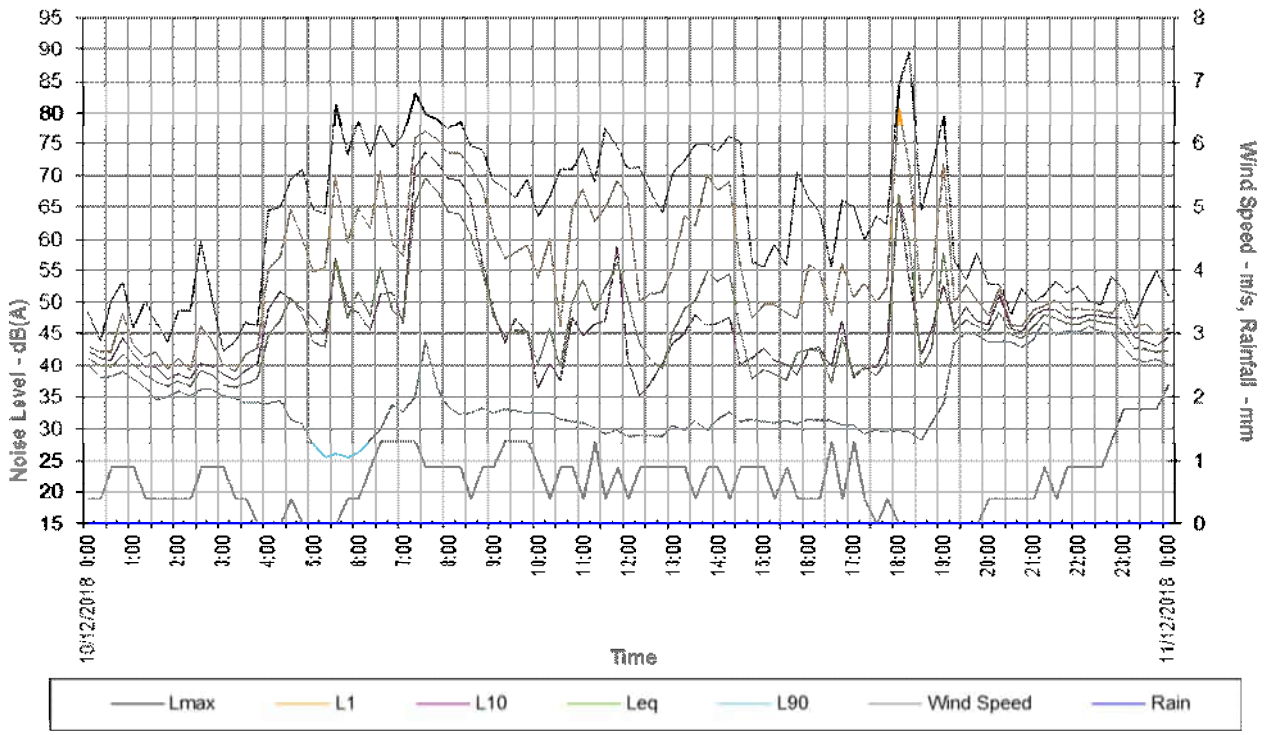

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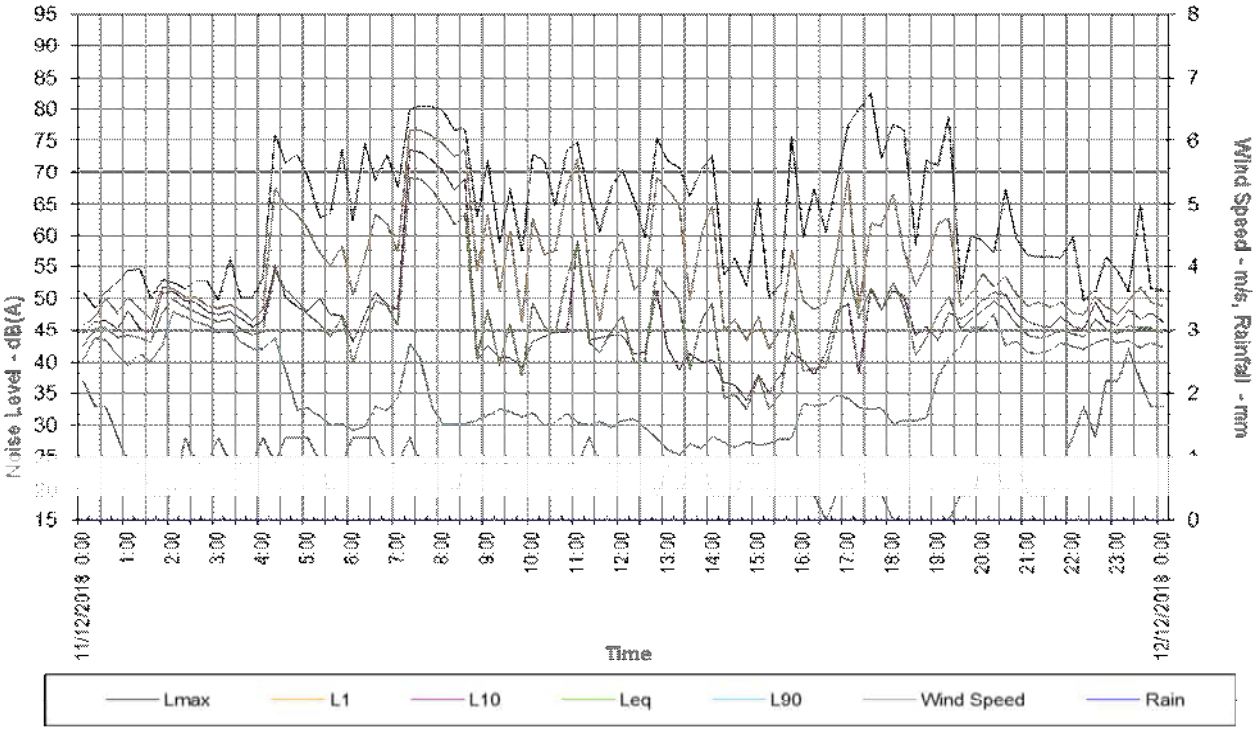
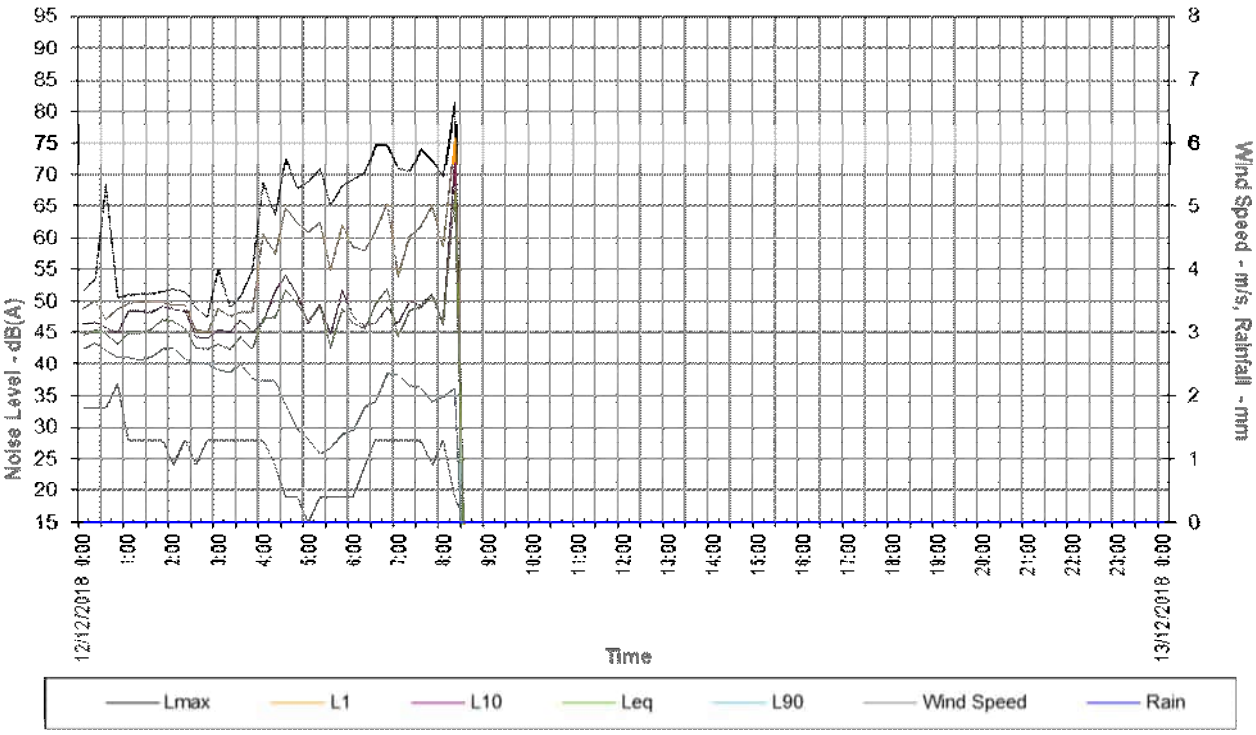




Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
5/12/2018	8:00	57	84	70	58	40	0.0	0.0	0.0	0	25	40	744
5/12/2018	8:15	49	81	59	48	39	0.0	0.0	0.0	0	26	40	743
5/12/2018	8:30	45	66	58	44	36	0.0	0.0	0.0	0	26	41	743
5/12/2018	8:45	47	70	60	48	38	0.2	0.0	0.0	0	26	40	742
5/12/2018	9:00	43	67	55	43	35	0.0	0.0	0.0	0	27	40	743
5/12/2018	9:15	44	65	57	44	35	0.0	0.0	0.0	0	27	41	743
5/12/2018	9:30	45	66	57	44	36	0.0	0.0	0.0	0	27	42	743
5/12/2018	9:45	52	70	64	56	35	0.0	0.0	0.0	0	28	42	743
5/12/2018	10:00	53	72	67	51	35	0.0	0.0	0.0	0	28	42	743
5/12/2018	10:15	43	63	54	45	35	0.0	0.0	0.0	0	29	42	743
5/12/2018	10:30	49	71	64	47	33	0.0	0.0	0.0	0	29	42	743
5/12/2018	10:45	56	76	71	56	34	0.0	0.0	0.0	0	30	42	743
5/12/2018	11:00	55	73	67	59	34	0.2	1.3	4.9	135	33	35	743
5/12/2018	11:15	54	71	66	59	33	0.0	0.9	4.0	68	33	35	742
5/12/2018	11:30	50	73	64	49	32	0.0	0.9	2.7	248	34	34	742
5/12/2018	11:45	39	60	47	40	32	0.0	0.9	3.1	248	34	34	742
5/12/2018	12:00	50	75	64	44	32	0.0	1.3	5.4	248	35	32	742
5/12/2018	12:15	48	67	61	51	30	0.0	1.3	6.3	248	35	31	742
5/12/2018	12:30	52	75	67	48	29	0.0	1.3	4.9	248	35	32	742
5/12/2018	12:45	47	71	60	46	29	0.0	1.3	5.4	135	34	32	741
5/12/2018	13:00	59	76	72	60	31	0.0	1.3	4.9	248	34	32	741
5/12/2018	13:15	58	75	71	61	30	0.0	1.3	5.4	270	35	32	741
5/12/2018	13:30	49	68	62	52	31	0.0	0.9	4.0	248	35	29	741
5/12/2018	13:45	49	70	63	51	29	0.0	1.3	4.0	248	36	30	741
5/12/2018	14:00	55	75	69	54	31	0.0	0.9	2.7	248	36	30	741
5/12/2018	14:15	44	61	56	48	31	0.0	0.9	4.5	135	35	30	741
5/12/2018	14:30	48	73	61	47	29	0.0	0.9	4.5	248	35	29	741
5/12/2018	14:45	48	71	61	48	33	0.0	0.9	4.9	248	35	29	741
5/12/2018	15:00	44	63	57	46	32	0.0	0.9	4.0	248	34	30	740
5/12/2018	15:15	41	66	51	43	32	0.0	0.9	3.6	248	35	28	740
5/12/2018	15:30	42	65	52	43	34	0.0	0.9	4.9	248	34	30	740
5/12/2018	15:45	37	59	46	40	31	0.0	0.4	4.0	225	34	29	740
5/12/2018	16:00	38	56	47	42	31	0.0	1.8	5.8	248	34	30	740
5/12/2018	16:15	43	64	53	45	33	0.0	1.3	5.4	248	33	31	740
5/12/2018	16:30	43	65	52	46	33	0.0	1.3	4.5	270	34	29	740
5/12/2018	16:45	44	64	55	46	35	0.0	1.3	6.3	248	34	29	740
5/12/2018	17:00	42	60	54	44	33	0.0	0.9	3.6	248	33	30	740
5/12/2018	17:15	54	73	67	57	35	0.0	1.3	4.5	248	33	30	740
5/12/2018	17:30	49	70	62	49	34	0.0	0.9	4.9	248	33	31	741
5/12/2018	17:45	55	72	68	57	35	0.0	0.4	3.1	248	33	31	741
5/12/2018	18:00	59	76	70	63	36	0.0	0.9	4.5	248	32	33	741
5/12/2018	18:15	53	74	67	50	36	0.0	0.9	4.9	248	31	34	741
5/12/2018	18:30	54	73	69	51	36	0.0	0.9	2.7	225	31	35	741
5/12/2018	18:45	56	79	70	54	35	0.0	0.9	3.1	248	30	36	742
5/12/2018	19:00	45	72	51	47	38	0.0	0.9	4.5	225	30	38	742
5/12/2018	19:15	46	72	53	48	41	0.0	0.9	4.0	248	29	40	742
5/12/2018	19:30	54	59	58	57	45	0.0	0.4	4.0	248	29	41	742
5/12/2018	19:45	55	62	57	56	54	0.0	0.9	3.1	225	28	43	742
5/12/2018	20:00	53	58	55	55	52	0.0	0.9	4.0	225	27	44	743
5/12/2018	20:15	52	62	55	53	51	0.0	0.9	4.5	225	27	46	743
5/12/2018	20:30	53	59	55	54	51	0.0	0.9	4.9	225	27	47	743
5/12/2018	20:45	53	59	55	54	50	0.0	1.3	5.8	248	26	48	743
5/12/2018	21:00	53	61	55	54	51	0.0	0.9	4.9	225	26	50	744
5/12/2018	21:15	53	59	55	54	51	0.0	0.9	4.5	225	25	51	744
5/12/2018	21:30	53	62	58	55	51	0.0	0.9	4.0	225	25	52	744
5/12/2018	21:45	53	62	56	54	51	0.0	0.9	3.1	225	25	52	744
5/12/2018	22:00	53	60	56	54	52	0.0	0.9	4.0	225	24	53	744
5/12/2018	22:15	54	63	57	56	50	0.0	0.9	4.5	225	24	53	744
5/12/2018	22:30	56	63	59	58	54	0.0	0.9	3.1	225	24	54	744
5/12/2018	22:45	57	67	59	58	55	0.0	0.9	4.0	248	24	54	744
5/12/2018	23:00	55	65	58	57	53	0.0	0.9	4.0	225	24	55	744
5/12/2018	23:15	53	58	56	54	51	0.0	0.4	3.1	225	23	57	745
5/12/2018	23:30	54	57	56	55	52	0.0	0.4	4.0	45	23	57	744
5/12/2018	23:45	53	56	55	54	52	0.0	0.4	5.8	135	23	58	744
6/12/2018	0:00	53	56	55	54	52	0.0	0.4	1.8	135	23	58	744
6/12/2018	0:15	53	57	54	54	51	0.0	0.4	4.0	135	22	59	744
6/12/2018	0:30	52	55	54	54	51	0.0	0.4	4.9	203	22	59	744
6/12/2018	0:45	52	56	55	53	51	0.0	0.4	3.6	135	22	59	744
6/12/2018	1:00	52	56	54	54	51	0.0	0.0	2.7	158	22	60	744
6/12/2018	1:15	52	56	54	53	50	0.0	0.0	1.8	248	21	61	744

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018	1:30	53	55	54	54	51	0.0	0.0	0.9	225	21	63	744
6/12/2018	1:45	53	56	56	55	51	0.0	0.0	0.4	225	21	63	744
6/12/2018	2:00	53	57	56	55	52	0.0	0.0	0.9	225	21	65	744
6/12/2018	2:15	55	58	57	56	53	0.0	0.0	1.3	225	20	66	744
6/12/2018	2:30	54	56	56	55	52	0.0	0.0	1.8	203	20	66	744
6/12/2018	2:45	54	57	56	56	52	0.0	0.0	0.4	158	20	66	744
6/12/2018	3:00	52	57	56	54	50	0.0	0.0	0.4	225	20	67	744
6/12/2018	3:15	52	56	54	53	49	0.0	0.0	0.9	225	20	68	744
6/12/2018	3:30	52	55	54	53	49	0.0	0.0	2.2	180	20	68	744
6/12/2018	3:45	51	56	54	53	45	0.0	0.0	0.4	203	20	68	744
6/12/2018	4:00	49	61	55	52	42	0.0	0.0	0.0	0	20	69	744
6/12/2018	4:15	50	63	58	53	45	0.0	0.0	1.3	203	19	69	744
6/12/2018	4:30	52	72	66	50	28	0.0	0.0	2.2	225	20	69	744
6/12/2018	4:45	49	71	62	49	30	0.0	0.0	2.2	203	20	67	744
6/12/2018	5:00	47	66	61	46	30	0.0	0.0	2.2	203	20	66	744
6/12/2018	5:15	52	75	65	50	28	0.0	0.0	2.2	45	20	64	745
6/12/2018	5:30	49	72	63	46	26	0.0	0.0	1.3	225	21	63	745
6/12/2018	5:45	55	79	70	53	27	0.0	0.0	2.2	248	21	61	745
6/12/2018	6:00	48	72	59	46	32	0.0	0.4	2.7	248	22	59	745
6/12/2018	6:15	52	76	65	50	34	0.0	0.4	2.7	225	23	56	745
6/12/2018	6:30	48	71	61	48	34	0.0	0.4	2.7	248	24	53	745
6/12/2018	6:45	47	72	60	48	34	0.0	0.4	2.7	248	25	50	745
6/12/2018	7:00	45	66	56	46	32	0.0	0.4	2.7	225	25	48	745
6/12/2018	7:15	65	79	76	71	34	0.0	0.9	4.0	225	25	48	745
6/12/2018	7:30	67	78	75	72	38	0.0	1.3	5.8	248	26	48	745
6/12/2018	7:45	67	80	75	71	39	0.0	0.9	4.0	225	26	47	745
6/12/2018	8:00	62	76	72	68	37	0.0	1.3	4.9	225	26	47	745
6/12/2018	8:15	48	67	59	50	36	0.0	0.9	4.5	225	27	47	745
6/12/2018	8:30	44	68	52	45	37	0.0	1.3	4.9	135	27	46	745
6/12/2018	8:45	46	68	56	48	37	0.0	0.9	4.0	135	28	45	745
6/12/2018	9:00	45	66	58	45	37	0.0	1.3	4.9	248	28	45	745
6/12/2018	9:15	50	77	62	49	36	0.0	1.3	4.5	158	28	44	745
6/12/2018	9:30	41	64	48	43	37	0.0	0.9	4.9	180	29	42	745
6/12/2018	9:45	45	64	57	48	38	0.0	0.9	4.5	248	30	41	745
6/12/2018	10:00	44	64	59	43	32	0.0	0.9	4.5	248	30	39	745
6/12/2018	10:15	50	73	64	49	34	0.0	0.9	3.1	248	31	37	745
6/12/2018	10:30	47	67	60	50	33	0.0	0.9	4.5	248	31	35	745
6/12/2018	10:45	43	65	55	43	33	0.0	1.3	4.5	135	31	36	745
6/12/2018	11:00	57	80	72	43	32	0.0	1.3	4.9	158	31	35	745
6/12/2018	11:15	44	67	57	44	31	0.0	0.9	3.1	248	32	35	744
6/12/2018	11:30	50	74	61	45	31	0.0	1.3	3.1	135	32	33	744
6/12/2018	11:45	54	75	69	45	32	0.0	1.3	3.1	135	33	33	744
6/12/2018	12:00	43	71	48	40	33	0.0	0.9	2.7	248	33	32	744
6/12/2018	12:15	48	73	61	41	32	0.0	1.3	4.0	158	33	31	744
6/12/2018	12:30	53	75	67	47	36	0.0	1.3	4.9	158	33	30	744
6/12/2018	12:45	38	57	46	41	33	0.0	0.9	4.5	248	34	29	744
6/12/2018	13:00	40	59	50	43	33	0.0	0.9	5.4	158	34	30	743
6/12/2018	13:15	48	71	62	44	32	0.0	1.8	4.0	135	34	29	743
6/12/2018	13:30	43	71	52	43	33	0.0	1.3	4.9	180	34	29	743
6/12/2018	13:45	39	53	46	42	36	0.0	0.9	4.0	135	35	27	743
6/12/2018	14:00	41	70	46	41	36	0.0	1.3	5.4	158	34	28	743
6/12/2018	14:15	39	62	50	40	32	0.0	1.3	4.0	135	34	28	742
6/12/2018	14:30	45	67	59	43	32	0.0	0.9	5.4	158	35	27	742
6/12/2018	14:45	39	67	47	42	29	0.0	1.3	4.5	135	34	27	742
6/12/2018	15:00	40	61	49	43	31	0.0	0.9	4.0	248	34	27	742
6/12/2018	15:15	37	54	45	40	30	0.0	1.3	3.6	248	34	28	742
6/12/2018	15:30	47	78	55	42	30	0.0	0.9	3.1	135	34	26	742
6/12/2018	15:45	45	76	53	38	30	0.0	0.9	3.1	225	34	27	742
6/12/2018	16:00	42	63	57	41	31	0.0	0.4	3.1	248	33	27	742
6/12/2018	16:15	38	63	47	40	30	0.0	0.4	4.5	248	34	27	742
6/12/2018	16:30	56	74	71	47	30	0.0	0.9	3.1	248	33	28	742
6/12/2018	16:45	60	77	72	66	33	0.0	0.9	4.5	203	33	29	742
6/12/2018	17:00	50	71	65	46	32	0.0	0.9	4.0	225	33	29	742
6/12/2018	17:15	46	70	56	46	32	0.0	0.9	4.9	225	32	29	742
6/12/2018	17:30	57	76	71	55	33	0.0	0.9	4.0	225	32	30	742
6/12/2018	17:45	50	74	63	44	34	0.0	0.9	4.0	248	32	30	743
6/12/2018	18:00	44	63	56	46	36	0.0	0.4	5.4	225	31	31	743
6/12/2018	18:15	41	66	49	43	34	0.0	0.4	2.7	225	31	32	743
6/12/2018	18:30	41	63	51	43	34	0.0	0.9	4.9	248	30	34	743
6/12/2018	18:45	44	63	50	47	37	0.0	0.9	4.0	225	29	36	743

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018 19:00	46	67	53	48	41	0.0	0.9	4.5	248	29	39	743
6/12/2018 19:15	48	71	55	49	43	0.0	0.4	2.7	248	28	41	744
6/12/2018 19:30	51	59	55	54	47	0.0	0.9	4.5	225	27	42	744
6/12/2018 19:45	58	62	59	58	56	0.0	1.3	5.4	225	27	43	744
6/12/2018 20:00	58	61	59	58	56	0.0	1.3	6.7	225	26	45	744
6/12/2018 20:15	57	59	58	58	56	0.0	0.9	4.5	248	26	45	744
6/12/2018 20:30	57	61	58	58	56	0.0	0.4	5.4	225	25	46	744
6/12/2018 20:45	56	61	58	57	55	0.0	0.9	4.5	225	25	48	745
6/12/2018 21:00	53	58	57	56	51	0.0	0.4	4.0	225	25	48	745
6/12/2018 21:15	53	60	55	54	52	0.0	0.9	4.9	248	24	49	745
6/12/2018 21:30	52	61	55	54	51	0.0	0.9	5.4	225	24	50	745
6/12/2018 21:45	54	59	57	56	48	0.0	0.9	4.0	225	24	52	745
6/12/2018 22:00	52	63	54	53	50	0.0	0.9	3.1	113	24	53	745
6/12/2018 22:15	52	56	53	53	51	0.0	0.9	5.8	135	23	54	745
6/12/2018 22:30	52	63	55	54	50	0.0	0.9	5.4	180	23	54	745
6/12/2018 22:45	52	58	54	53	50	0.0	0.4	4.0	180	23	55	745
6/12/2018 23:00	52	59	55	54	51	0.0	0.4	4.5	158	23	56	745
6/12/2018 23:15	52	59	55	53	50	0.0	0.4	2.2	180	22	56	745
6/12/2018 23:30	51	57	54	52	50	0.0	0.4	3.1	203	22	57	745
6/12/2018 23:45	51	57	53	53	50	0.0	0.4	2.7	225	22	58	745
7/12/2018 0:00	52	57	55	54	51	0.0	0.4	2.7	270	22	58	745
7/12/2018 0:15	52	55	54	53	50	0.0	0.4	2.2	180	21	59	745
7/12/2018 0:30	52	55	54	53	51	0.0	0.0	1.8	225	21	59	745
7/12/2018 0:45	52	55	54	53	50	0.0	0.0	3.1	203	21	60	745
7/12/2018 1:00	52	55	54	53	49	0.0	0.4	2.7	203	21	60	745
7/12/2018 1:15	51	54	53	52	49	0.0	0.4	1.8	45	21	60	745
7/12/2018 1:30	51	54	53	52	49	0.0	0.0	2.2	180	20	60	745
7/12/2018 1:45	51	54	53	53	49	0.0	0.0	2.2	225	20	60	745
7/12/2018 2:00	50	54	53	52	48	0.0	0.0	2.2	225	20	60	745
7/12/2018 2:15	48	53	52	50	45	0.0	0.0	2.2	203	20	60	745
7/12/2018 2:30	49	53	52	50	46	0.0	0.0	2.7	225	20	60	745
7/12/2018 2:45	47	53	51	49	42	0.0	0.0	1.8	248	20	61	745
7/12/2018 3:00	45	55	50	47	41	0.0	0.0	1.3	203	20	62	745
7/12/2018 3:15	46	52	51	49	41	0.0	0.0	0.4	248	19	63	745
7/12/2018 3:30	47	55	54	51	36	0.0	0.0	0.0	0	19	64	745
7/12/2018 3:45	48	57	52	50	42	0.0	0.0	0.9	248	18	65	745
7/12/2018 4:00	50	61	56	54	37	0.0	0.0	0.9	270	18	66	745
7/12/2018 4:15	48	61	56	52	38	0.0	0.0	0.9	225	18	66	745
7/12/2018 4:30	48	72	60	47	30	0.0	0.0	0.4	225	18	66	745
7/12/2018 4:45	50	76	61	51	29	0.0	0.0	0.9	225	18	66	745
7/12/2018 5:00	52	78	66	50	29	0.0	0.0	1.3	225	18	67	745
7/12/2018 5:15	52	76	63	50	28	0.0	0.0	1.3	225	18	67	745
7/12/2018 5:30	49	69	60	53	28	0.0	0.4	2.2	248	19	66	745
7/12/2018 5:45	49	69	60	54	29	0.0	0.9	2.2	248	19	64	745
7/12/2018 6:00	47	69	59	48	29	0.0	0.4	2.2	248	20	63	745
7/12/2018 6:15	53	73	68	50	34	0.0	0.9	3.1	45	21	60	746
7/12/2018 6:30	46	65	58	50	33	0.0	0.4	2.7	248	22	57	746
7/12/2018 6:45	49	67	60	52	35	0.0	0.4	3.1	248	23	56	746
7/12/2018 7:00	48	71	60	50	34	0.0	0.4	2.7	248	24	54	746
7/12/2018 7:15	56	78	70	57	36	0.0	0.9	2.7	225	25	53	746
7/12/2018 7:30	48	64	60	52	34	0.0	0.9	4.9	248	25	52	746
7/12/2018 7:45	59	77	72	62	37	0.0	0.9	4.5	225	26	50	746
7/12/2018 8:00	52	74	66	51	38	0.0	0.9	3.1	248	27	47	746
7/12/2018 8:15	53	72	67	54	37	0.0	0.9	3.1	203	27	47	746
7/12/2018 8:30	45	63	56	47	36	0.0	0.9	4.5	248	28	44	746
7/12/2018 8:45	46	62	57	50	35	0.0	0.9	4.5	248	28	40	746
7/12/2018 9:00	47	61	58	50	36	0.0	1.3	5.8	180	29	38	746
7/12/2018 9:15	43	61	54	46	35	0.0	1.3	4.0	248	29	37	746
7/12/2018 9:30	43	65	54	45	34	0.0	1.3	4.5	248	30	36	746
7/12/2018 9:45	47	64	59	51	34	0.0	1.8	5.8	135	29	36	746
7/12/2018 10:00	43	63	54	45	32	0.0	1.3	6.3	248	30	37	746
7/12/2018 10:15	42	61	53	44	32	0.0	1.3	5.4	248	30	38	746
7/12/2018 10:30	46	62	58	48	33	0.0	1.8	4.9	248	31	37	745
7/12/2018 10:45	54	76	68	55	36	0.0	1.3	7.2	248	31	37	745
7/12/2018 11:00	52	73	67	50	34	0.0	1.8	4.9	135	30	38	745
7/12/2018 11:15	44	61	55	48	32	0.0	1.8	4.5	135	30	38	745
7/12/2018 11:30	41	59	54	43	31	0.0	1.3	4.5	158	31	36	745
7/12/2018 11:45	49	68	63	48	29	0.0	1.3	5.4	135	31	35	745
7/12/2018 12:00	46	66	58	47	30	0.0	0.9	4.0	248	32	34	745
7/12/2018 12:15	42	60	54	44	28	0.0	1.3	8.5	135	32	33	745

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018 12:30	47	64	60	46	30	0.0	1.8	6.3	135	32	33	744
7/12/2018 12:45	46	62	58	46	33	0.0	1.3	4.5	225	33	33	744
7/12/2018 13:00	40	57	51	43	31	0.0	0.9	4.0	248	33	32	744
7/12/2018 13:15	41	62	51	45	31	0.0	0.9	5.8	248	33	33	744
7/12/2018 13:30	45	65	55	48	35	0.0	1.8	4.5	248	33	33	744
7/12/2018 13:45	41	59	52	44	30	0.0	1.3	4.0	248	33	32	744
7/12/2018 14:00	49	75	56	45	33	0.0	1.3	6.7	248	33	31	743
7/12/2018 14:15	53	78	64	46	31	0.0	1.3	5.8	248	33	32	743
7/12/2018 14:30	52	72	67	50	32	0.0	1.3	4.0	225	33	32	743
7/12/2018 14:45	61	78	74	63	30	0.0	0.9	5.4	225	33	32	743
7/12/2018 15:00	44	68	56	46	31	0.0	1.3	5.8	135	32	31	743
7/12/2018 15:15	44	67	54	46	31	0.0	1.3	4.5	248	32	31	743
7/12/2018 15:30	43	62	55	45	33	0.0	0.9	5.8	248	32	31	743
7/12/2018 15:45	52	78	65	49	33	0.0	1.3	4.0	293	32	32	743
7/12/2018 16:00	45	65	58	45	32	0.0	0.9	3.6	225	32	32	743
7/12/2018 16:15	38	58	49	41	30	0.0	0.9	4.5	225	32	32	742
7/12/2018 16:30	38	58	48	42	31	0.0	0.9	4.5	225	32	33	743
7/12/2018 16:45	44	70	54	44	31	0.0	1.3	4.9	248	31	34	742
7/12/2018 17:00	43	60	52	46	36	0.0	1.3	4.9	225	31	35	743
7/12/2018 17:15	47	73	56	47	34	0.0	0.9	4.5	225	31	35	743
7/12/2018 17:30	46	70	56	48	35	0.0	1.3	4.9	135	30	37	743
7/12/2018 17:45	42	61	50	44	34	0.0	0.9	5.8	248	30	38	743
7/12/2018 18:00	44	65	54	45	36	0.0	0.9	4.5	225	29	40	743
7/12/2018 18:15	62	81	76	60	41	0.0	0.9	3.1	225	28	41	744
7/12/2018 18:30	47	69	55	50	40	0.0	0.9	4.5	248	28	41	744
7/12/2018 18:45	45	66	53	47	39	0.0	0.9	4.5	248	27	41	744
7/12/2018 19:00	44	61	52	47	39	0.0	0.4	2.7	225	27	42	744
7/12/2018 19:15	45	67	53	47	40	0.0	0.4	2.7	225	27	44	744
7/12/2018 19:30	52	59	55	55	43	0.0	0.4	3.1	225	26	45	744
7/12/2018 19:45	54	61	56	55	53	0.0	0.9	3.1	225	26	45	745
7/12/2018 20:00	54	60	56	55	53	0.0	0.4	3.1	248	26	45	745
7/12/2018 20:15	53	58	55	54	51	0.0	0.4	3.1	225	26	47	745
7/12/2018 20:30	53	59	55	54	52	0.0	0.4	3.1	180	25	48	745
7/12/2018 20:45	54	57	55	55	52	0.0	0.4	4.0	248	25	49	745
7/12/2018 21:00	54	58	55	55	52	0.0	0.4	2.2	225	25	50	745
7/12/2018 21:15	53	61	55	54	50	0.0	0.4	2.2	225	24	53	745
7/12/2018 21:30	52	57	54	53	51	0.0	0.4	1.8	225	24	53	745
7/12/2018 21:45	53	56	54	54	51	0.0	0.4	2.7	248	24	53	746
7/12/2018 22:00	53	58	54	54	51	0.0	0.4	2.7	248	24	55	746
7/12/2018 22:15	53	57	55	54	51	0.0	0.4	2.7	248	23	55	746
7/12/2018 22:30	52	60	54	54	51	0.0	0.4	3.1	225	23	56	746
7/12/2018 22:45	52	55	54	53	51	0.0	0.0	1.3	225	23	57	746
7/12/2018 23:00	52	55	54	53	51	0.0	0.0	1.8	248	23	58	746
7/12/2018 23:15	53	56	55	54	51	0.0	0.4	4.5	248	22	59	746
7/12/2018 23:30	53	58	55	55	50	0.0	0.4	4.9	248	22	59	746
7/12/2018 23:45	53	57	55	54	51	0.0	0.4	4.0	248	22	60	746
8/12/2018 0:00	53	61	55	54	51	0.0	0.4	2.7	225	22	60	746
8/12/2018 0:15	49	57	52	51	47	0.0	0.0	1.8	203	22	61	746
8/12/2018 0:30	50	58	52	51	48	0.0	0.0	1.3	225	21	62	745
8/12/2018 0:45	49	53	52	51	47	0.0	0.0	1.3	180	21	64	745
8/12/2018 1:00	50	58	52	51	48	0.0	0.0	0.9	225	21	65	745
8/12/2018 1:15	48	54	52	50	43	0.0	0.0	0.9	203	21	65	745
8/12/2018 1:30	42	52	49	46	37	0.0	0.0	0.9	248	20	66	745
8/12/2018 1:45	47	53	51	50	42	0.0	0.0	1.8	248	20	67	745
8/12/2018 2:00	50	64	52	51	48	0.0	0.0	0.9	135	20	67	745
8/12/2018 2:15	50	54	52	51	47	0.0	0.0	0.4	270	20	67	745
8/12/2018 2:30	49	58	54	53	39	0.0	0.0	0.0	0	19	68	745
8/12/2018 2:45	48	56	55	53	36	0.0	0.0	0.4	270	19	68	745
8/12/2018 3:00	45	54	53	49	37	0.0	0.0	0.9	270	19	68	745
8/12/2018 3:15	45	54	52	50	37	0.0	0.0	0.0	0	19	70	745
8/12/2018 3:30	47	53	52	50	35	0.0	0.0	0.0	0	19	71	745
8/12/2018 3:45	48	63	58	51	33	0.0	0.0	0.0	0	19	70	745
8/12/2018 4:00	47	65	56	51	33	0.0	0.0	0.0	0	18	71	745
8/12/2018 4:15	47	66	57	51	33	0.0	0.0	0.0	0	18	71	745
8/12/2018 4:30	52	75	64	51	27	0.0	0.0	0.4	270	18	71	745
8/12/2018 4:45	49	70	62	47	24	0.0	0.0	0.0	0	18	72	745
8/12/2018 5:00	41	63	53	43	24	0.0	0.0	0.0	0	18	73	746
8/12/2018 5:15	47	64	60	51	24	0.0	0.0	0.0	0	18	72	746
8/12/2018 5:30	53	77	68	50	25	0.0	0.0	0.0	0	18	72	746
8/12/2018 5:45	57	76	73	51	27	0.0	0.0	0.4	270	19	69	746

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	6:00	47	70	61	44	26	0.0	0.0	0.4	270	20	67	746
8/12/2018	6:15	51	77	65	48	27	0.0	0.0	1.3	270	22	63	746
8/12/2018	6:30	46	71	56	43	28	0.0	0.4	2.7	248	23	60	746
8/12/2018	6:45	45	66	58	45	31	0.0	0.4	4.0	248	23	58	746
8/12/2018	7:00	45	67	58	46	33	0.0	0.9	3.1	248	24	55	746
8/12/2018	7:15	46	68	59	47	33	0.0	0.4	2.2	225	25	54	746
8/12/2018	7:30	51	71	66	49	35	0.0	0.9	4.5	225	25	53	746
8/12/2018	7:45	46	69	57	48	37	0.0	0.9	4.5	248	26	52	746
8/12/2018	8:00	49	71	62	50	37	0.0	0.9	4.0	248	27	48	746
8/12/2018	8:15	50	70	64	49	36	0.0	1.3	4.5	248	27	48	746
8/12/2018	8:30	46	69	56	47	39	0.0	1.3	4.5	135	27	49	746
8/12/2018	8:45	51	74	64	51	38	0.0	0.9	2.7	135	27	48	746
8/12/2018	9:00	47	67	60	48	36	0.0	1.8	5.4	158	28	45	746
8/12/2018	9:15	46	72	57	47	35	0.0	1.3	4.9	113	29	43	746
8/12/2018	9:30	55	74	69	57	34	0.0	1.8	5.8	135	29	42	745
8/12/2018	9:45	62	76	73	67	37	0.0	1.8	5.4	135	29	41	745
8/12/2018	10:00	48	73	60	46	33	0.0	1.8	7.2	135	30	40	745
8/12/2018	10:15	54	71	66	57	34	0.0	1.8	4.9	135	30	39	745
8/12/2018	10:30	54	74	68	54	35	0.0	1.3	4.9	225	31	38	745
8/12/2018	10:45	41	60	52	44	34	0.0	1.3	4.5	225	31	37	745
8/12/2018	11:00	40	58	51	42	34	0.0	1.3	4.5	248	32	36	745
8/12/2018	11:15	42	66	53	41	31	0.0	1.3	6.7	135	32	37	744
8/12/2018	11:30	45	70	57	41	33	0.0	1.8	5.4	135	31	36	744
8/12/2018	11:45	39	62	49	41	33	0.0	1.3	5.4	135	32	35	744
8/12/2018	12:00	55	78	68	52	32	0.0	0.9	3.6	135	33	34	744
8/12/2018	12:15	44	69	55	45	32	0.0	1.8	4.5	135	33	34	744
8/12/2018	12:30	37	59	46	39	31	0.0	1.3	4.5	135	33	33	743
8/12/2018	12:45	41	68	49	40	31	0.0	1.3	5.4	135	34	32	743
8/12/2018	13:00	58	73	69	63	31	0.0	1.8	7.6	135	34	31	743
8/12/2018	13:15	49	74	63	42	31	0.0	1.3	4.5	158	34	31	743
8/12/2018	13:30	48	82	51	37	30	0.0	1.8	5.4	158	34	30	743
8/12/2018	13:45	54	75	69	47	34	0.0	1.8	4.5	158	34	31	743
8/12/2018	14:00	41	69	50	42	34	0.0	1.3	4.5	135	35	32	742
8/12/2018	14:15	39	61	49	40	35	0.0	0.9	3.1	248	34	32	742
8/12/2018	14:30	41	68	48	40	35	0.0	0.9	2.7	248	34	31	742
8/12/2018	14:45	44	71	56	43	35	0.0	0.4	2.2	315	35	31	742
8/12/2018	15:00	51	77	63	42	35	0.0	0.9	4.9	248	34	32	742
8/12/2018	15:15	39	59	50	39	35	0.0	0.4	4.0	270	34	32	742
8/12/2018	15:30	49	73	63	40	35	0.0	0.4	2.7	158	34	32	742
8/12/2018	15:45	39	58	49	41	36	0.0	1.3	3.1	248	34	33	742
8/12/2018	16:00	47	73	56	45	35	0.0	0.4	4.0	248	33	34	742
8/12/2018	16:15	48	71	61	46	35	0.0	0.9	3.6	248	34	34	742
8/12/2018	16:30	43	67	55	43	35	0.0	0.4	3.1	248	33	34	741
8/12/2018	16:45	47	73	59	46	36	0.0	0.4	2.2	135	34	34	741
8/12/2018	17:00	46	70	59	41	35	0.0	0.9	4.0	135	34	33	742
8/12/2018	17:15	48	74	58	49	36	0.0	1.8	5.4	158	33	36	742
8/12/2018	17:30	43	65	53	45	39	0.0	1.3	4.5	135	32	38	742
8/12/2018	17:45	52	79	61	49	39	0.0	1.8	4.9	135	32	39	742
8/12/2018	18:00	49	70	59	53	40	0.0	2.7	6.7	135	31	40	742
8/12/2018	18:15	53	77	68	48	42	0.0	1.8	4.5	135	31	41	743
8/12/2018	18:30	45	67	52	46	41	0.0	1.8	5.4	135	30	42	743
8/12/2018	18:45	52	83	53	44	38	0.0	1.8	5.8	135	30	43	743
8/12/2018	19:00	43	61	51	46	40	0.0	1.8	7.2	135	29	45	743
8/12/2018	19:15	52	59	55	54	44	0.0	1.8	5.8	135	28	46	744
8/12/2018	19:30	56	62	60	59	53	0.0	2.2	7.6	135	28	48	744
8/12/2018	19:45	59	62	61	60	58	0.0	1.8	5.8	135	27	48	744
8/12/2018	20:00	59	62	61	60	57	0.0	2.2	6.3	135	27	49	744
8/12/2018	20:15	57	61	59	58	56	0.0	1.8	5.4	135	27	49	744
8/12/2018	20:30	57	65	60	59	55	0.0	1.3	4.9	135	26	49	744
8/12/2018	20:45	57	65	58	57	56	0.0	1.8	4.9	135	26	50	745
8/12/2018	21:00	55	60	57	57	50	0.0	1.8	5.4	135	26	51	745
8/12/2018	21:15	55	58	57	56	52	0.0	0.9	5.4	158	26	51	745
8/12/2018	21:30	58	60	59	59	56	0.0	0.9	5.4	135	25	51	745
8/12/2018	21:45	58	59	59	59	56	0.0	1.3	4.5	135	25	52	745
8/12/2018	22:00	54	59	59	57	52	0.0	0.4	2.7	180	25	53	745
8/12/2018	22:15	53	55	54	54	53	0.0	0.4	2.7	135	25	54	745
Larson Davis		53	55	54	54	52	0.0	0.4	2.7	135	24	55	744
8/12/2018	22:45	52	65	54	53	43	0.0	0.4	3.1	158	24	56	744
8/12/2018	23:00	44	49	48	46	40	0.0	0.4	4.9	113	24	57	744
8/12/2018	23:15	43	64	48	46	38	0.0	0.9	4.0	135	24	58	744

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	23:30	44	51	48	45	42	0.0	0.9	4.0	135	23	59	744
8/12/2018	23:45	47	53	51	50	41	0.0	1.3	4.5	135	23	59	744
9/12/2018	0:00	48	55	52	50	46	0.0	1.8	4.9	135	23	60	744
9/12/2018	0:15	47	51	50	48	44	0.0	1.3	3.1	135	23	61	744
9/12/2018	0:30	46	50	49	48	43	0.0	1.8	4.5	135	23	62	744
9/12/2018	0:45	46	52	51	49	40	0.0	1.3	3.1	135	23	62	744
9/12/2018	1:00	44	52	49	47	38	0.0	0.4	4.9	135	22	62	744
9/12/2018	1:15	42	48	47	46	36	0.0	0.0	1.3	180	22	63	744
9/12/2018	1:30	41	49	47	46	34	0.0	0.0	0.9	293	22	64	744
9/12/2018	1:45	40	48	47	45	35	0.0	0.0	0.4	180	21	65	744
9/12/2018	2:00	41	59	47	46	36	0.0	0.0	2.7	158	21	65	743
9/12/2018	2:15	41	50	47	45	33	0.0	0.4	2.2	113	21	65	743
9/12/2018	2:30	41	48	47	45	36	0.0	0.0	1.8	225	21	66	743
9/12/2018	2:45	43	56	48	46	39	0.0	0.0	0.9	158	21	67	743
9/12/2018	3:00	42	55	47	45	39	0.0	0.0	0.0	0	20	68	743
9/12/2018	3:15	43	51	47	46	39	0.0	0.0	0.4	203	20	69	743
9/12/2018	3:30	43	56	51	46	37	0.0	0.0	0.0	0	20	71	743
9/12/2018	3:45	44	57	52	47	36	0.0	0.0	0.0	0	20	71	743
9/12/2018	4:00	44	58	53	49	35	0.0	0.0	0.0	0	19	72	744
9/12/2018	4:15	56	82	68	53	34	0.0	0.0	0.0	0	19	72	744
9/12/2018	4:30	55	79	68	53	30	0.0	0.0	0.0	0	19	73	744
9/12/2018	4:45	61	83	76	50	26	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:00	48	74	61	44	25	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:15	46	71	55	44	25	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:30	50	74	63	47	25	0.0	0.0	1.3	203	19	73	744
9/12/2018	5:45	46	71	58	46	26	0.0	0.0	1.3	225	20	71	744
9/12/2018	6:00	55	74	69	53	26	0.0	0.4	1.8	248	21	69	744
9/12/2018	6:15	46	64	59	49	26	0.0	0.4	2.2	248	22	65	744
9/12/2018	6:30	45	66	58	46	27	0.0	0.4	2.7	248	23	62	744
9/12/2018	6:45	58	83	68	45	28	0.0	0.4	2.7	248	24	59	744
9/12/2018	7:00	49	75	61	49	29	0.0	0.4	2.2	248	25	56	744
9/12/2018	7:15	50	72	63	51	28	0.0	0.4	2.7	248	25	55	744
9/12/2018	7:30	47	75	60	48	28	0.0	0.4	2.2	248	27	53	744
9/12/2018	7:45	46	70	58	47	29	0.0	0.4	2.2	203	27	51	744
9/12/2018	8:00	43	64	55	47	28	0.0	0.4	2.2	225	28	50	744
9/12/2018	8:15	48	67	62	49	30	0.0	0.9	4.5	135	27	52	744
9/12/2018	8:30	44	67	55	47	30	0.0	0.9	3.1	158	28	49	744
9/12/2018	8:45	54	78	69	48	32	0.0	0.9	2.7	135	29	48	744
9/12/2018	9:00	43	63	54	45	31	0.0	0.4	3.1	203	30	46	744
9/12/2018	9:15	50	72	62	51	32	0.0	0.9	3.1	135	30	45	744
9/12/2018	9:30	49	73	62	43	33	0.0	0.9	4.0	135	31	44	744
9/12/2018	9:45	54	73	69	48	33	0.0	0.9	4.9	180	31	42	744
9/12/2018	10:00	46	72	58	43	32	0.0	0.9	4.5	135	32	40	743
9/12/2018	10:15	54	75	70	48	33	0.0	0.9	4.5	158	32	40	743
9/12/2018	10:30	50	69	65	42	31	0.0	0.9	3.1	135	33	38	743
9/12/2018	10:45	58	88	70	50	30	0.0	0.4	2.7	135	34	36	743
9/12/2018	11:00	51	74	65	47	30	0.0	1.8	4.9	135	33	37	743
9/12/2018	11:15	50	71	65	42	30	0.0	0.9	2.7	180	34	36	743
9/12/2018	11:30	49	79	54	45	30	0.0	0.4	2.7	248	35	34	742
9/12/2018	11:45	42	69	54	41	31	0.0	1.3	4.0	248	35	34	742
9/12/2018	12:00	38	65	46	40	31	0.0	0.9	6.3	135	35	33	742
9/12/2018	12:15	38	62	51	36	31	0.0	0.9	3.1	135	35	32	742
9/12/2018	12:30	51	75	66	38	30	0.0	0.4	3.1	113	36	32	742
9/12/2018	12:45	46	70	60	42	31	0.0	0.9	3.1	225	36	32	742
9/12/2018	13:00	39	65	47	39	30	0.0	1.3	4.9	135	36	31	741
9/12/2018	13:15	36	56	47	38	30	0.0	0.9	4.9	248	36	30	741
9/12/2018	13:30	37	56	47	39	30	0.0	0.9	4.5	135	36	30	741
9/12/2018	13:45	36	61	45	37	30	0.0	1.3	3.1	135	36	30	741
9/12/2018	14:00	38	58	50	39	31	0.0	0.9	6.3	248	36	30	741
9/12/2018	14:15	38	57	49	40	31	0.0	0.9	3.1	315	36	29	740
9/12/2018	14:30	55	77	70	47	30	0.0	0.9	2.7	135	36	30	740
9/12/2018	14:45	40	70	51	38	30	0.0	0.9	4.5	248	37	29	740
9/12/2018	15:00	38	56	49	42	31	0.0	0.9	3.1	135	36	30	740
9/12/2018	15:15	39	62	51	40	31	0.0	0.9	5.8	270	37	28	740
9/12/2018	15:30	51	79	60	47	32	0.0	0.9	3.1	135	37	27	740
9/12/2018	15:45	52	75	65	46	30	0.0	0.9	2.7	315	35	29	739
9/12/2018	16:00	52	75	62	53	31	0.0	0.4	4.0	180	36	28	739
9/12/2018	16:15	50	78	61	53	31	0.0	0.4	2.2	248	36	27	739
9/12/2018	16:30	49	71	62	47	32	0.0	0.9	4.9	203	36	27	739
9/12/2018	16:45	51	74	63	52	33	0.0	0.4	3.1	248	36	27	739

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	17:00	53	75	65	57	31	0.0	0.4	2.7	248	36	28	739
9/12/2018	17:15	53	82	61	53	33	0.0	0.9	4.5	135	35	28	739
9/12/2018	17:30	52	71	62	57	33	0.0	0.9	3.1	135	35	29	739
9/12/2018	17:45	53	80	65	53	34	0.0	0.9	4.5	135	35	30	740
9/12/2018	18:00	57	81	72	50	36	0.0	1.8	5.4	135	34	30	740
9/12/2018	18:15	54	82	64	45	36	0.0	1.3	4.0	135	34	30	740
9/12/2018	18:30	43	69	53	43	34	0.0	1.8	4.9	135	33	31	740
9/12/2018	18:45	57	82	68	48	34	0.0	1.8	4.5	135	33	31	740
9/12/2018	19:00	56	81	59	58	36	0.0	1.3	3.1	135	33	32	740
9/12/2018	19:15	58	71	64	58	57	0.0	1.3	3.6	135	32	32	740
9/12/2018	19:30	58	59	58	58	57	0.0	0.9	2.7	135	32	33	740
9/12/2018	19:45	56	59	59	58	50	0.0	0.9	2.2	135	32	34	741
9/12/2018	20:00	57	59	59	58	56	0.0	0.9	2.7	135	31	35	741
9/12/2018	20:15	56	59	59	58	49	0.0	1.3	2.7	135	31	36	741
9/12/2018	20:30	51	58	57	56	44	0.0	0.9	3.1	135	31	36	741
9/12/2018	20:45	44	50	48	45	43	0.0	1.3	4.5	135	30	38	741
9/12/2018	21:00	44	47	46	45	43	0.0	1.8	4.5	135	30	41	741
9/12/2018	21:15	44	48	46	45	43	0.0	1.8	4.9	135	29	43	742
9/12/2018	21:30	46	54	48	47	44	0.0	1.8	4.5	135	29	47	742
9/12/2018	21:45	45	57	49	47	44	0.0	1.8	4.9	135	28	50	742
9/12/2018	22:00	45	53	50	47	43	0.0	1.8	4.5	135	28	52	742
9/12/2018	22:15	44	49	47	46	43	0.0	1.3	3.1	135	27	53	742
9/12/2018	22:30	43	50	48	44	41	0.0	1.3	4.5	135	27	54	743
9/12/2018	22:45	44	53	49	47	41	0.0	0.9	2.7	135	27	55	743
9/12/2018	23:00	42	46	45	43	40	0.0	1.3	4.5	135	26	56	743
9/12/2018	23:15	42	52	45	43	40	0.0	1.3	4.5	135	26	57	743
9/12/2018	23:30	42	49	45	43	41	0.0	0.9	2.2	135	26	59	743
9/12/2018	23:45	42	47	46	43	40	0.0	0.4	3.1	135	26	59	743
10/12/2018	0:00	41	48	43	42	40	0.0	0.4	2.7	135	25	60	743
10/12/2018	0:15	40	44	42	41	38	0.0	0.4	2.2	158	25	61	743
10/12/2018	0:30	40	50	42	41	38	0.0	0.9	3.1	135	25	62	742
10/12/2018	0:45	42	53	48	44	39	0.0	0.9	2.7	135	25	63	742
10/12/2018	1:00	40	46	43	42	38	0.0	0.9	2.7	135	24	64	742
10/12/2018	1:15	38	50	42	40	37	0.0	0.4	2.2	158	24	65	742
10/12/2018	1:30	38	47	42	40	35	0.0	0.4	1.8	135	24	65	742
10/12/2018	1:45	37	44	39	38	35	0.0	0.4	1.8	135	24	66	742
10/12/2018	2:00	38	49	41	39	36	0.0	0.4	1.8	135	23	67	742
10/12/2018	2:15	37	49	39	38	35	0.0	0.4	4.0	135	23	68	742
10/12/2018	2:30	39	60	46	41	36	0.0	0.9	2.2	135	23	67	742
10/12/2018	2:45	38	50	44	40	36	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:00	37	42	40	39	35	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:15	36	44	39	38	35	0.0	0.4	2.2	158	23	69	742
10/12/2018	3:30	37	47	42	39	34	0.0	0.4	2.2	158	22	69	742
10/12/2018	3:45	38	46	43	40	34	0.0	0.0	1.3	158	22	70	742
10/12/2018	4:00	45	64	55	49	34	0.0	0.0	1.3	158	22	71	742
10/12/2018	4:15	47	65	57	52	35	0.0	0.0	1.8	135	22	71	742
10/12/2018	4:30	51	69	65	50	31	0.0	0.4	1.8	135	22	71	742
10/12/2018	4:45	48	71	60	49	31	0.0	0.0	0.9	135	22	72	742
10/12/2018	5:00	44	65	55	48	27	0.0	0.0	0.9	180	21	73	742
10/12/2018	5:15	43	64	55	45	26	0.0	0.0	2.2	158	21	73	742
10/12/2018	5:30	57	81	70	57	26	0.0	0.0	1.3	158	21	73	742
10/12/2018	5:45	47	73	60	49	26	0.0	0.4	2.2	135	22	71	742
10/12/2018	6:00	52	79	65	48	26	0.0	0.4	2.2	135	23	69	742
10/12/2018	6:15	48	73	62	46	28	0.0	0.9	4.0	135	24	66	742
10/12/2018	6:30	56	78	71	51	30	0.0	1.3	4.5	135	24	64	743
10/12/2018	6:45	49	75	60	52	34	0.0	1.3	3.1	135	25	63	743
10/12/2018	7:00	47	76	57	47	33	0.0	1.3	3.1	135	26	61	743
10/12/2018	7:15	66	83	76	71	35	0.0	1.3	4.5	135	26	60	743
10/12/2018	7:30	70	80	77	74	44	0.0	0.9	2.7	135	27	58	743
10/12/2018	7:45	68	79	76	72	37	0.0	0.9	2.7	135	27	56	743
10/12/2018	8:00	64	77	74	70	33	0.0	0.9	2.7	135	28	54	743
10/12/2018	8:15	64	79	74	69	32	0.0	0.9	3.1	158	28	53	743
10/12/2018	8:30	61	75	72	67	32	0.0	0.4	2.7	203	29	51	743
10/12/2018	8:45	55	74	68	56	33	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:00	48	69	61	49	32	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:15	45	68	57	44	33	0.0	1.3	4.5	158	31	46	742
10/12/2018	9:30	45	67	58	48	33	0.0	1.3	4.0	135	31	45	742
10/12/2018	9:45	45	69	59	45	32	0.0	1.3	3.1	135	31	43	742
10/12/2018	10:00	40	63	54	36	32	0.0	0.9	3.1	180	32	41	742
10/12/2018	10:15	46	67	60	40	32	0.0	0.4	3.1	270	33	40	742

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	10:30	40	71	46	38	31	0.0	0.9	4.0	135	33	39	742
10/12/2018	10:45	50	71	65	48	31	0.0	0.9	3.6	180	33	36	742
10/12/2018	11:00	53	74	68	45	31	0.0	0.4	4.9	135	34	34	742
10/12/2018	11:15	49	69	63	47	30	0.0	1.3	4.5	135	34	33	742
10/12/2018	11:30	52	77	65	47	29	0.0	0.4	3.1	68	34	34	741
10/12/2018	11:45	56	75	69	59	30	0.0	0.9	2.7	135	35	33	741
10/12/2018	12:00	51	71	67	41	29	0.0	0.4	1.8	180	35	32	741
10/12/2018	12:15	43	71	50	35	29	0.0	0.9	3.1	248	36	30	741
10/12/2018	12:30	41	68	51	37	29	0.0	0.9	2.7	248	36	31	741
10/12/2018	12:45	40	64	51	40	29	0.0	0.9	3.1	293	35	32	740
10/12/2018	13:00	45	70	56	44	31	0.0	0.9	3.6	158	35	31	740
10/12/2018	13:15	49	72	64	45	30	0.0	0.9	3.1	225	36	31	740
10/12/2018	13:30	50	75	62	48	31	0.0	0.4	2.2	158	36	30	740
10/12/2018	13:45	55	75	70	46	30	0.0	0.9	3.1	135	37	30	739
10/12/2018	14:00	53	74	68	47	32	0.0	0.9	4.5	248	36	30	739
10/12/2018	14:15	54	76	69	48	33	0.0	0.4	2.2	225	37	29	739
10/12/2018	14:30	46	75	56	40	31	0.0	0.9	2.7	135	38	28	739
10/12/2018	14:45	38	56	48	41	32	0.0	0.9	2.7	248	37	29	739
10/12/2018	15:00	39	56	50	43	31	0.0	0.9	3.1	248	37	29	738
10/12/2018	15:15	39	59	50	41	31	0.0	0.4	2.7	158	37	28	738
10/12/2018	15:30	38	56	48	40	31	0.0	0.9	3.1	113	37	28	738
10/12/2018	15:45	42	71	47	39	31	0.0	0.4	2.2	315	37	27	738
10/12/2018	16:00	43	67	56	43	31	0.0	0.4	1.8	225	37	27	738
10/12/2018	16:15	42	64	55	43	31	0.0	0.4	2.7	270	37	27	738
10/12/2018	16:30	37	56	48	40	31	0.0	1.3	3.1	293	36	27	738
10/12/2018	16:45	44	66	56	47	30	0.0	0.4	1.8	248	37	26	738
10/12/2018	17:00	38	65	51	38	31	0.0	1.3	2.7	113	36	26	738
10/12/2018	17:15	40	60	53	40	29	0.0	0.4	2.2	113	36	26	738
10/12/2018	17:30	38	64	50	40	30	0.0	0.0	1.8	203	36	26	738
10/12/2018	17:45	41	62	52	43	30	0.0	0.4	3.1	225	36	26	738
10/12/2018	18:00	67	84	81	67	30	0.0	0.0	0.9	135	36	27	739
10/12/2018	18:15	60	90	72	54	30	0.0	0.0	2.2	135	36	27	739
10/12/2018	18:30	40	64	51	42	28	0.0	0.0	1.3	158	35	27	739
10/12/2018	18:45	43	71	54	46	31	0.0	0.0	0.4	135	35	28	739
10/12/2018	19:00	58	80	72	53	34	0.0	0.0	0.0	0	34	29	739
10/12/2018	19:15	45	56	50	47	44	0.0	0.0	0.0	0	33	30	739
10/12/2018	19:30	47	54	53	49	45	0.0	0.0	0.0	0	33	31	739
10/12/2018	19:45	46	58	50	47	45	0.0	0.0	0.4	135	33	31	739
10/12/2018	20:00	45	53	48	47	44	0.0	0.4	1.8	135	33	31	739
10/12/2018	20:15	48	53	52	51	44	0.0	0.4	1.8	135	33	32	740
10/12/2018	20:30	45	48	46	46	44	0.0	0.4	2.2	135	32	33	740
10/12/2018	20:45	44	52	46	45	43	0.0	0.4	2.2	158	32	36	740
10/12/2018	21:00	46	50	49	48	44	0.0	0.4	2.2	158	32	38	740
10/12/2018	21:15	48	51	49	49	47	0.0	0.9	3.1	135	31	39	740
10/12/2018	21:30	47	53	50	49	45	0.0	0.4	2.2	135	31	40	741
10/12/2018	21:45	47	52	49	48	45	0.0	0.9	2.7	158	31	40	741
10/12/2018	22:00	47	52	49	47	45	0.0	0.9	3.1	135	31	41	741
10/12/2018	22:15	47	50	49	48	46	0.0	0.9	2.7	158	30	42	741
10/12/2018	22:30	47	50	49	48	45	0.0	0.9	3.1	135	30	43	741
10/12/2018	22:45	47	54	48	48	45	0.0	1.3	4.9	135	30	45	741
10/12/2018	23:00	45	52	50	47	43	0.0	1.8	6.7	135	29	47	741
10/12/2018	23:15	43	47	46	45	41	0.0	1.8	5.8	135	29	49	741
10/12/2018	23:30	43	52	47	44	41	0.0	1.8	5.8	135	28	51	741
10/12/2018	23:45	42	55	45	43	41	0.0	1.8	5.8	135	28	53	741
11/12/2018	0:00	42	51	46	44	40	0.0	2.2	5.8	135	28	55	741
11/12/2018	0:15	45	49	47	46	44	0.0	1.8	4.9	135	27	56	741
11/12/2018	0:30	45	51	50	47	43	0.0	1.8	4.9	135	27	57	741
11/12/2018	0:45	44	53	48	45	41	0.0	1.3	4.5	135	27	58	741
11/12/2018	1:00	44	55	50	48	39	0.0	0.9	2.7	135	26	59	741
11/12/2018	1:15	44	55	48	45	41	0.0	0.9	2.7	135	26	60	741
11/12/2018	1:30	43	50	47	45	40	0.0	0.4	2.2	135	26	61	741
11/12/2018	1:45	48	53	52	51	43	0.0	0.4	2.2	135	26	62	741
11/12/2018	2:00	50	53	52	51	48	0.0	0.4	3.1	135	25	63	741
11/12/2018	2:15	49	52	50	50	47	0.0	1.3	2.7	135	25	63	741
11/12/2018	2:30	48	53	50	49	46	0.0	0.9	2.2	135	25	64	741
11/12/2018	2:45	47	53	49	48	46	0.0	0.9	2.7	135	25	65	741
11/12/2018	3:00	46	50	48	48	45	0.0	1.3	2.7	135	25	65	741
11/12/2018	3:15	47	56	49	48	45	0.0	0.9	2.7	135	24	66	741
11/12/2018	3:30	45	50	48	47	43	0.0	0.9	2.2	135	24	67	741
11/12/2018	3:45	44	50	47	46	42	0.0	0.9	4.0	158	24	67	741

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018 4:00	45	53	48	47	42	0.0	1.3	3.1	135	24	67	741
11/12/2018 4:15	55	76	68	55	44	0.0	0.9	2.7	135	23	68	741
11/12/2018 4:30	52	71	65	50	39	0.0	1.3	4.0	135	23	68	741
11/12/2018 4:45	50	73	63	49	32	0.0	1.3	3.6	135	23	68	741
11/12/2018 5:00	47	69	61	48	33	0.0	1.3	3.1	135	23	68	741
11/12/2018 5:15	46	63	57	50	31	0.0	0.9	3.1	135	23	68	741
11/12/2018 5:30	44	63	55	48	30	0.0	0.4	2.2	135	23	67	742
11/12/2018 5:45	47	74	58	47	30	0.0	0.9	2.2	158	24	67	742
11/12/2018 6:00	40	62	51	43	29	0.0	1.3	4.5	135	24	66	742
11/12/2018 6:15	46	74	57	48	30	0.0	1.3	4.5	135	25	64	742
11/12/2018 6:30	50	69	63	51	33	0.0	1.3	3.1	135	25	62	742
11/12/2018 6:45	49	73	62	49	32	0.0	0.9	2.7	135	26	58	743
11/12/2018 7:00	46	68	57	48	34	0.0	0.9	4.0	135	27	56	742
11/12/2018 7:15	69	80	77	74	43	0.0	1.3	4.0	135	27	54	742
11/12/2018 7:30	69	80	77	73	41	0.0	0.9	4.0	135	28	52	742
11/12/2018 7:45	67	80	76	72	33	0.0	0.9	4.0	135	28	53	742
11/12/2018 8:00	65	80	75	70	30	0.0	0.9	3.1	135	27	54	742
11/12/2018 8:15	62	77	72	67	30	0.0	0.4	2.2	135	29	51	742
11/12/2018 8:30	63	77	74	69	30	0.0	0.9	4.0	135	30	49	742
11/12/2018 8:45	41	63	54	40	31	0.0	0.9	3.1	158	31	46	742
11/12/2018 9:00	48	72	63	43	32	0.0	0.9	3.6	158	31	46	742
11/12/2018 9:15	40	59	51	41	33	0.0	0.9	3.1	135	32	45	742
11/12/2018 9:30	46	67	61	41	32	0.0	0.9	2.7	135	32	42	742
11/12/2018 9:45	38	58	46	39	31	0.0	0.9	4.0	135	32	42	742
11/12/2018 10:00	49	73	63	43	32	0.0	0.9	2.7	225	33	42	742
11/12/2018 10:15	46	72	57	44	30	0.0	0.9	2.7	248	33	40	742
11/12/2018 10:30	45	65	58	45	30	0.0	0.9	3.1	293	32	41	742
11/12/2018 10:45	53	74	68	45	32	0.0	0.9	3.1	293	32	41	742
11/12/2018 11:00	58	75	72	59	30	0.0	0.9	5.4	248	33	40	742
11/12/2018 11:15	43	66	54	43	30	0.0	1.3	4.5	248	33	40	742
11/12/2018 11:30	41	61	47	44	30	0.0	0.9	2.7	293	33	39	742
11/12/2018 11:45	45	68	57	44	30	0.0	0.9	3.1	248	34	36	741
11/12/2018 12:00	47	70	59	44	31	0.0	0.9	3.1	248	35	36	741
11/12/2018 12:15	40	66	51	41	31	0.0	0.9	3.1	315	35	36	741
11/12/2018 12:30	40	60	53	42	30	0.0	0.9	3.1	248	35	35	740
11/12/2018 12:45	55	75	69	51	28	0.0	0.4	3.1	225	35	34	740
11/12/2018 13:00	52	72	67	42	26	0.0	0.9	9.8	203	35	33	740
11/12/2018 13:15	50	71	65	39	25	0.0	0.4	2.2	248	36	31	740
11/12/2018 13:30	39	66	50	41	27	0.0	0.9	2.7	248	35	32	740
11/12/2018 13:45	47	71	61	40	26	0.0	0.9	4.0	248	35	32	740
11/12/2018 14:00	49	73	65	40	28	0.0	0.4	4.0	158	35	32	739
11/12/2018 14:15	34	54	45	37	27	0.0	0.4	2.2	270	35	32	739
11/12/2018 14:30	35	56	47	36	27	0.0	0.4	2.7	225	37	29	739
11/12/2018 14:45	33	52	43	34	27	0.0	0.9	3.1	135	37	29	739
11/12/2018 15:00	38	66	47	38	27	0.0	0.9	3.1	225	37	29	739
11/12/2018 15:15	33	50	42	35	27	0.0	0.4	2.2	135	37	28	739
11/12/2018 15:30	35	52	45	38	28	0.0	0.4	2.7	248	36	29	738
11/12/2018 15:45	48	75	58	42	28	0.0	0.4	2.7	248	36	28	738
11/12/2018 16:00	39	60	50	40	33	0.0	0.4	2.7	135	36	29	738
11/12/2018 16:15	39	67	48	38	33	0.0	0.4	2.2	158	36	29	738
11/12/2018 16:30	39	60	49	41	33	0.0	0.0	1.8	248	36	30	738
11/12/2018 16:45	46	68	57	48	35	0.0	0.4	1.8	270	36	30	738
11/12/2018 17:00	55	78	70	49	34	0.0	0.4	1.8	248	36	30	738
11/12/2018 17:15	47	80	49	38	33	0.0	0.9	2.7	135	36	30	738
11/12/2018 17:30	52	82	62	52	33	0.0	0.4	2.2	158	36	30	738
11/12/2018 17:45	48	72	62	48	33	0.0	0.4	2.7	135	36	30	738
11/12/2018 18:00	53	78	67	51	30	0.0	0.0	1.3	248	35	31	738
11/12/2018 18:15	49	77	58	50	31	0.0	0.0	0.9	248	35	31	738
11/12/2018 18:30	41	58	52	44	31	0.0	0.0	0.4	248	35	31	738
11/12/2018 18:45	44	72	56	46	31	0.0	0.0	1.8	203	34	31	738
11/12/2018 19:00	48	71	62	43	38	0.0	0.0	3.1	203	34	31	739
11/12/2018 19:15	50	79	63	48	41	0.0	0.0	1.8	0	34	33	739
11/12/2018 19:30	45	52	49	47	42	0.0	0.4	2.7	225	33	35	739
11/12/2018 19:45	47	60	51	48	45	0.0	0.4	3.6	225	33	37	739
11/12/2018 20:00	48	59	54	50	45	0.0	0.9	3.6	225	32	38	739
11/12/2018 20:15	50	57	52	51	48	0.0	0.9	3.1	225	31	39	739
11/12/2018 20:30	48	67	54	51	43	0.0	0.4	3.1	248	31	41	740
11/12/2018 20:45	46	59	51	48	43	0.0	0.9	4.5	225	30	42	740
11/12/2018 21:00	44	57	49	46	42	0.0	0.4	4.5	248	30	43	740
11/12/2018 21:15	44	56	49	46	41	0.0	0.4	3.1	225	30	44	740

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018 21:30	44	57	49	46	42	0.0	0.4	4.5	203	29	45	740
11/12/2018 21:45	45	56	49	47	43	0.0	0.9	5.4	135	29	46	740
11/12/2018 22:00	44	60	48	46	42	0.0	1.3	6.3	135	29	48	740
11/12/2018 22:15	44	50	48	45	42	0.0	1.8	4.9	135	29	49	740
11/12/2018 22:30	47	51	50	49	43	0.0	1.3	3.1	135	29	50	741
11/12/2018 22:45	45	57	49	47	44	0.0	2.2	5.8	135	28	50	741
11/12/2018 23:00	45	54	48	46	43	0.0	2.2	5.4	135	28	51	741
11/12/2018 23:15	46	51	50	48	43	0.0	2.7	6.3	135	28	53	741
11/12/2018 23:30	45	65	52	47	42	0.0	2.2	6.7	135	27	55	741
11/12/2018 23:45	45	52	49	48	43	0.0	1.8	5.4	135	27	56	741
12/12/2018 0:00	45	51	49	46	42	0.0	1.8	5.4	135	27	57	741
12/12/2018 0:15	45	54	50	47	43	0.0	1.8	4.5	135	26	58	740
12/12/2018 0:30	45	68	47	46	42	0.0	1.8	4.0	135	26	58	740
12/12/2018 0:45	43	51	49	45	41	0.0	2.2	4.9	135	26	59	740
12/12/2018 1:00	45	51	50	48	41	0.0	1.3	3.6	135	26	59	740
12/12/2018 1:15	45	51	50	48	41	0.0	1.3	3.1	158	26	60	740
12/12/2018 1:30	45	51	50	48	41	0.0	1.3	3.1	135	25	61	740
12/12/2018 1:45	47	51	50	49	42	0.0	1.3	3.6	135	25	62	740
12/12/2018 2:00	47	52	49	49	43	0.0	0.9	4.9	135	25	64	740
12/12/2018 2:15	46	52	49	49	41	0.0	1.3	4.9	135	25	65	740
12/12/2018 2:30	43	49	46	44	40	0.0	0.9	2.7	135	25	65	740
12/12/2018 2:45	42	47	45	44	40	0.0	1.3	4.0	158	24	66	740
12/12/2018 3:00	43	55	49	46	39	0.0	1.3	4.5	135	24	66	740
12/12/2018 3:15	42	49	48	45	39	0.0	1.3	3.1	135	24	67	740
12/12/2018 3:30	44	51	48	47	40	0.0	1.3	3.1	135	24	68	740
12/12/2018 3:45	42	55	48	45	38	0.0	1.3	3.1	135	24	68	740
12/12/2018 4:00	47	69	61	47	37	0.0	1.3	3.1	135	24	69	739
12/12/2018 4:15	48	64	57	51	37	0.0	0.9	2.7	135	23	69	740
12/12/2018 4:30	52	73	65	54	34	0.0	0.4	2.2	158	23	69	740
12/12/2018 4:45	50	68	63	51	30	0.0	0.4	1.8	135	23	69	740
12/12/2018 5:00	47	69	61	47	28	0.0	0.0	1.8	158	23	70	740
12/12/2018 5:15	49	71	63	50	26	0.0	0.4	2.2	135	23	70	740
12/12/2018 5:30	43	65	55	45	27	0.0	0.4	1.8	135	23	70	740
12/12/2018 5:45	49	68	62	52	29	0.0	0.4	2.7	135	24	70	740
12/12/2018 6:00	47	69	58	48	30	0.0	0.4	2.2	135	24	69	740
12/12/2018 6:15	46	70	58	46	33	0.0	0.9	3.1	135	24	68	741
12/12/2018 6:30	50	75	61	47	34	0.0	1.3	4.0	135	25	67	741
12/12/2018 6:45	52	75	66	49	38	0.0	1.3	4.0	158	25	66	741
12/12/2018 7:00	44	71	54	47	38	0.0	1.3	4.9	135	26	64	741
12/12/2018 7:15	49	71	60	50	37	0.0	1.3	4.5	158	26	62	741
12/12/2018 7:30	49	74	62	49	36	0.0	1.3	4.0	135	27	60	741
12/12/2018 7:45	51	72	65	51	34	0.0	0.9	4.0	135	27	58	741
12/12/2018 8:00	47	70	59	46	35	0.0	1.3	4.0	135	28	56	741
12/12/2018 8:15	67	81	76	72	36	0.0	0.4	3.1	180	29	52	741

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_02

From	Wednesday 5/12/2018 10:15	Meas. Type	Free Field	Package	Border to Gowrie
To	Wednesday 12/12/2018 9:30	Mic. Height (m)	1.8	Address	36 Taloom Street
Instrument Type	Larson Davis 831	Weather Station	No	Suburb	Yelarbon
Instrument Serial #	3300	Operator	JR	Land Use	Residential
Inst. Cal. Date	13/11/2017	Sample Int.	15 min	Latitude	28°34'20.25"S
Pre Calibration	94	RP Lot#	208/Y5691	Longitude	150°45'16.61"E
Post Calibration	94				

Daytime

RBL **36.4 dB(A)**

ABLs Day (Mon-Fri 7am - 6 pm)

ABLs Day (Sat 8 am - 1 pm)

Wednesday 5/12/2018	37.1	dB(A)
Thursday 6/12/2018	36.4	dB(A)
Friday 7/12/2018	37.8	dB(A)
Saturday 8/12/2018	35.4	dB(A)
Monday 10/12/2018	33.5	dB(A)
Tuesday 11/12/2018	35.0	dB(A)
Wednesday 12/12/2018	36.4	dB(A)

Evening

RBL **34.6 dB(A)**

ABLs Evening (Mon-Fri 6 pm - 10 pm)

ABLs Evening (Sat 1 pm - 10 pm)

ABLs Evening (Sun 7 am - 10 pm)

Wednesday 5/12/2018	41.4	dB(A)
Thursday 6/12/2018	38.4	dB(A)
Friday 7/12/2018	33.6	dB(A)
Saturday 8/12/2018	34.6	dB(A)
Sunday 9/12/2018	33.6	dB(A)
Monday 10/12/2018	30.9	dB(A)
Tuesday 11/12/2018	36.5	dB(A)

Night

RBL **25.0 dB(A)**

ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)

ABLs Night (Fri 6pm - 8am)

Wednesday 5/12/2018	25.5	dB(A)
Thursday 6/12/2018	24.6	dB(A)
Friday 7/12/2018	23.3	dB(A)
Saturday 8/12/2018	24.0	dB(A)
Sunday 9/12/2018	25.0	dB(A)
Monday 10/12/2018	29.1	dB(A)
Tuesday 11/12/2018	30.9	dB(A)

Site Diagram - Diagram

Future Freight
Integrating Community, Environment and Engineering

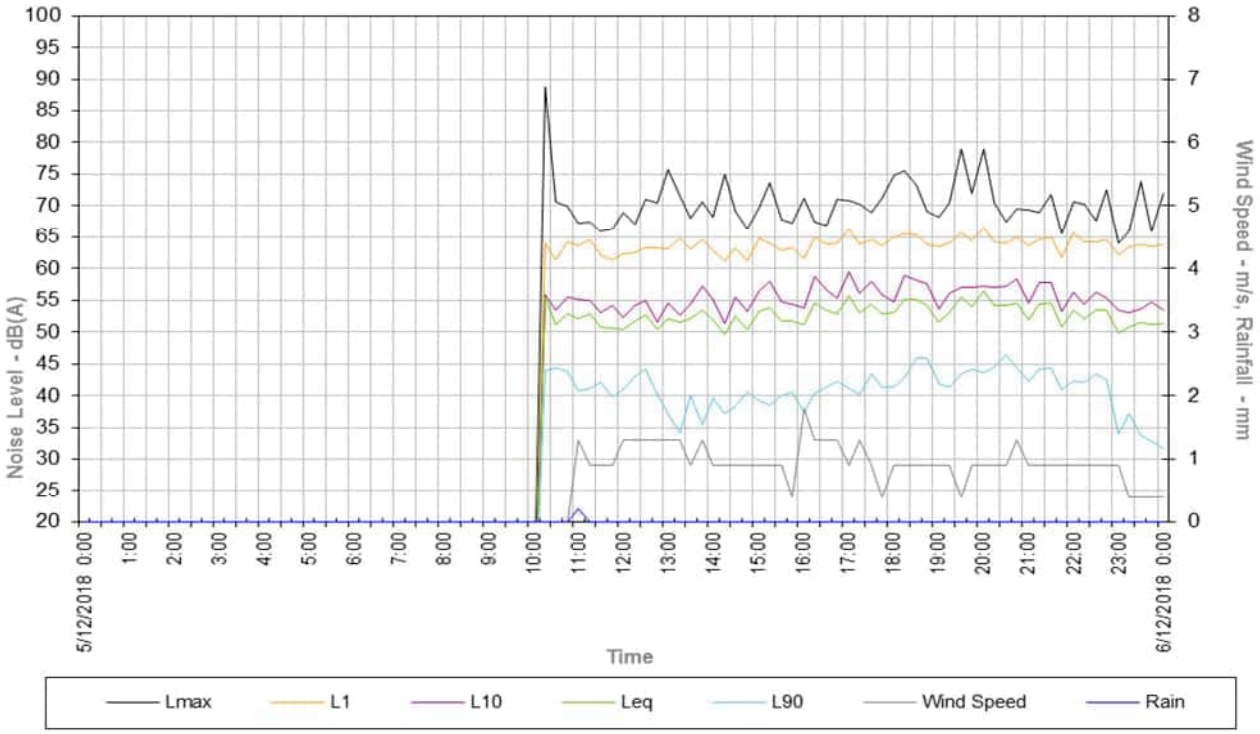
Site Attended Measurements Summary

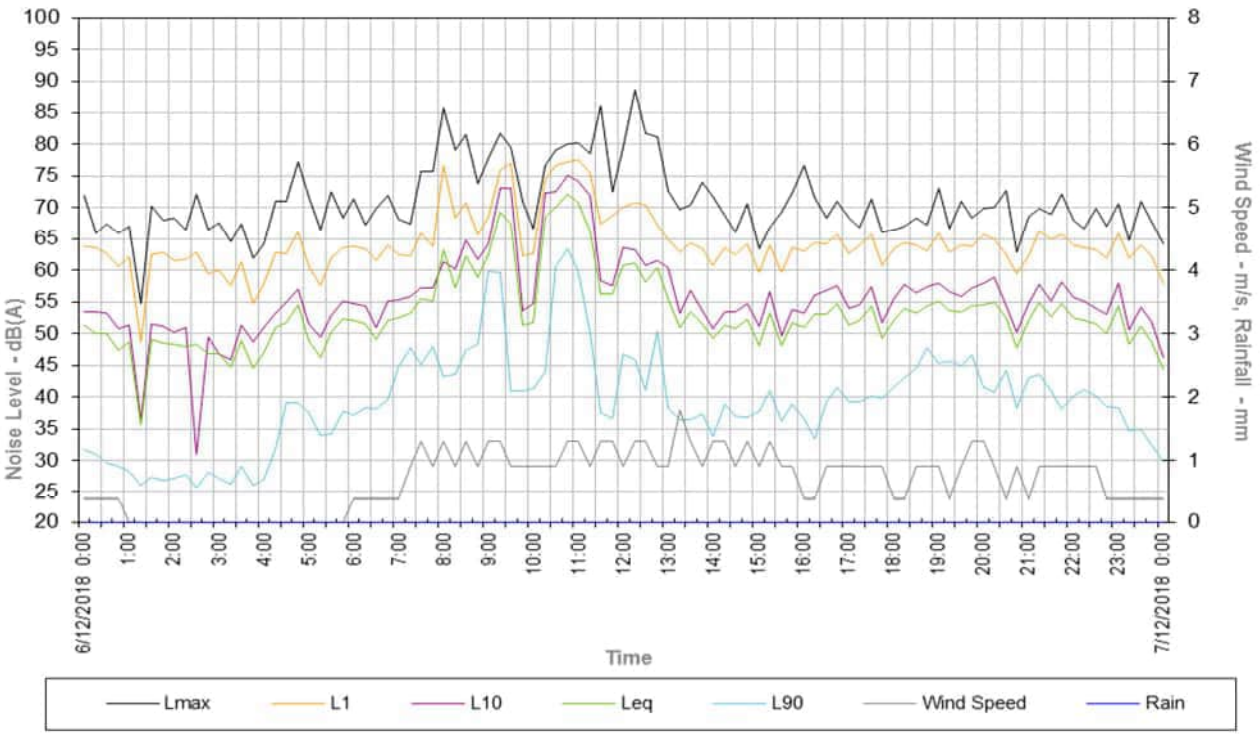
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
5/12/2018	10:00 AM	Attended	78.1	62.3	52.2	41.5	51.2	Pass	10:15 AM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Attended measurement taken before the start of logging period. Background is bird noise and road traffic at 47dB(A). Truck pass-by at 58- 78 dB(A). Bird noise is audible. Cars at 55dB(A).								
12/12/2018	9:30 AM	Attended	74.5	65.4	52.2	36.0	52.1	Pass	9:45 AM
		Logged	74.5	64.8	53.7	38.1	52.6		
		Difference	0.0	0.6	-1.5	-2.1	-0.5		
Comments	Background is bird and insect noise at 40-42 dB(A). Car pass by 57 dB(A). Light wind noise in nearby trees is audible. Truck pass by 62-74 dB(A).								

Photos

Site Noise and Weather Graphical Analysis

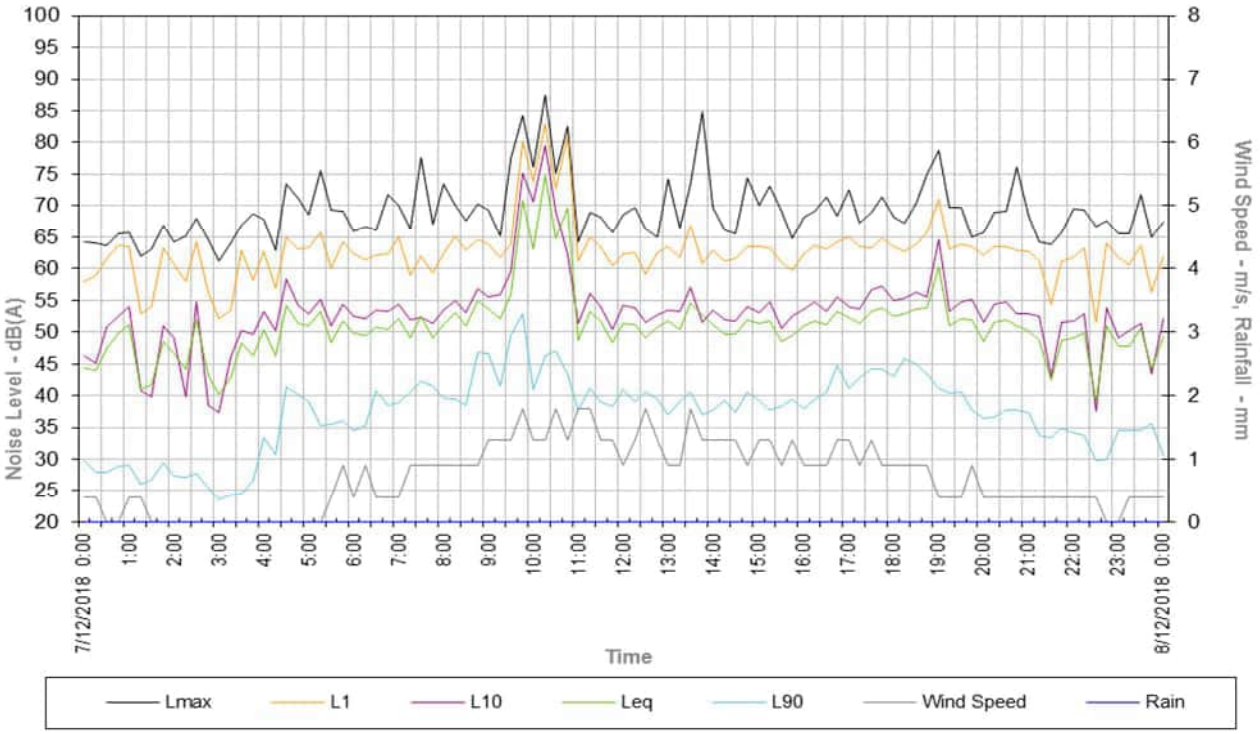
36 Taloom Street

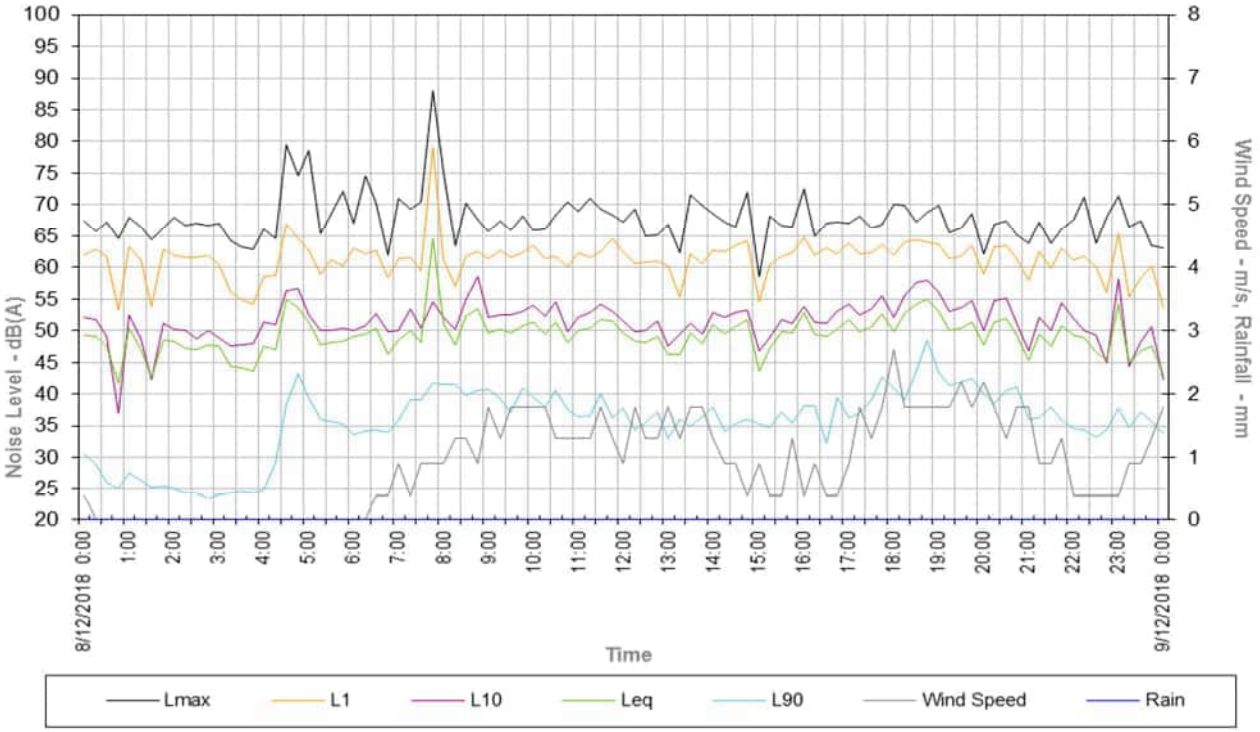




Site Noise and Weather Graphical Analysis

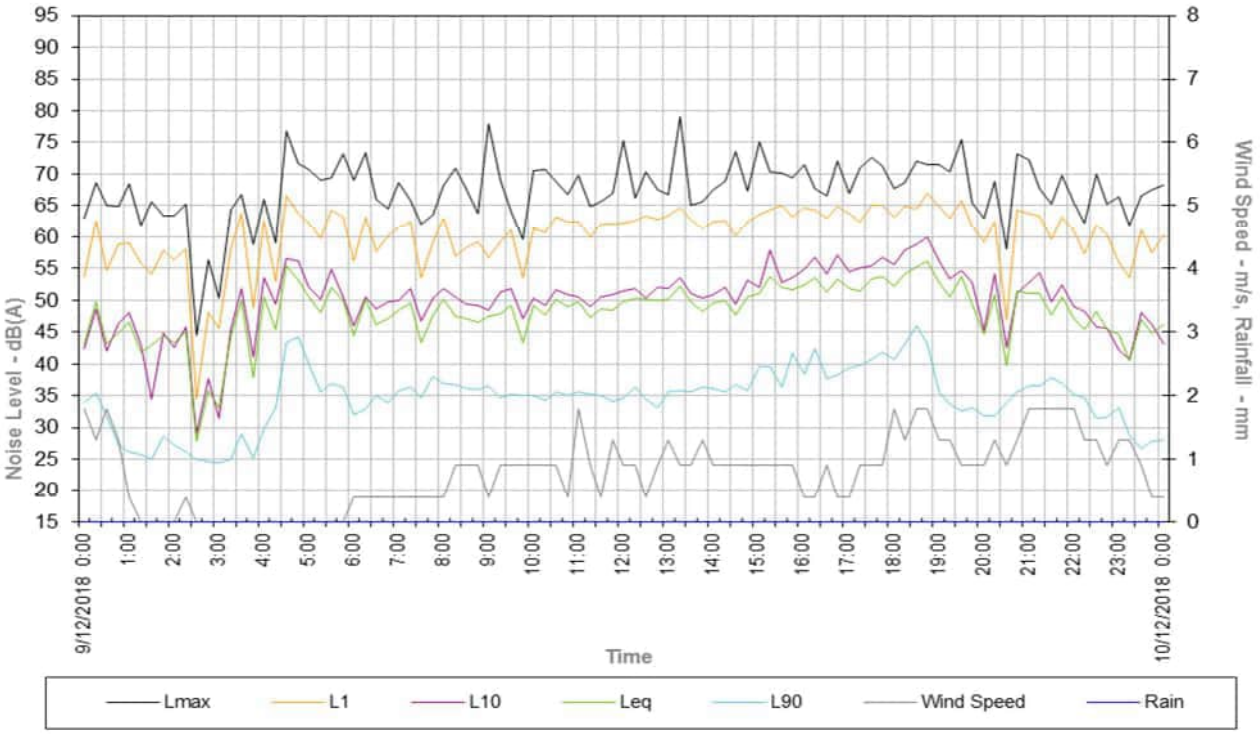
36 Taloom Street

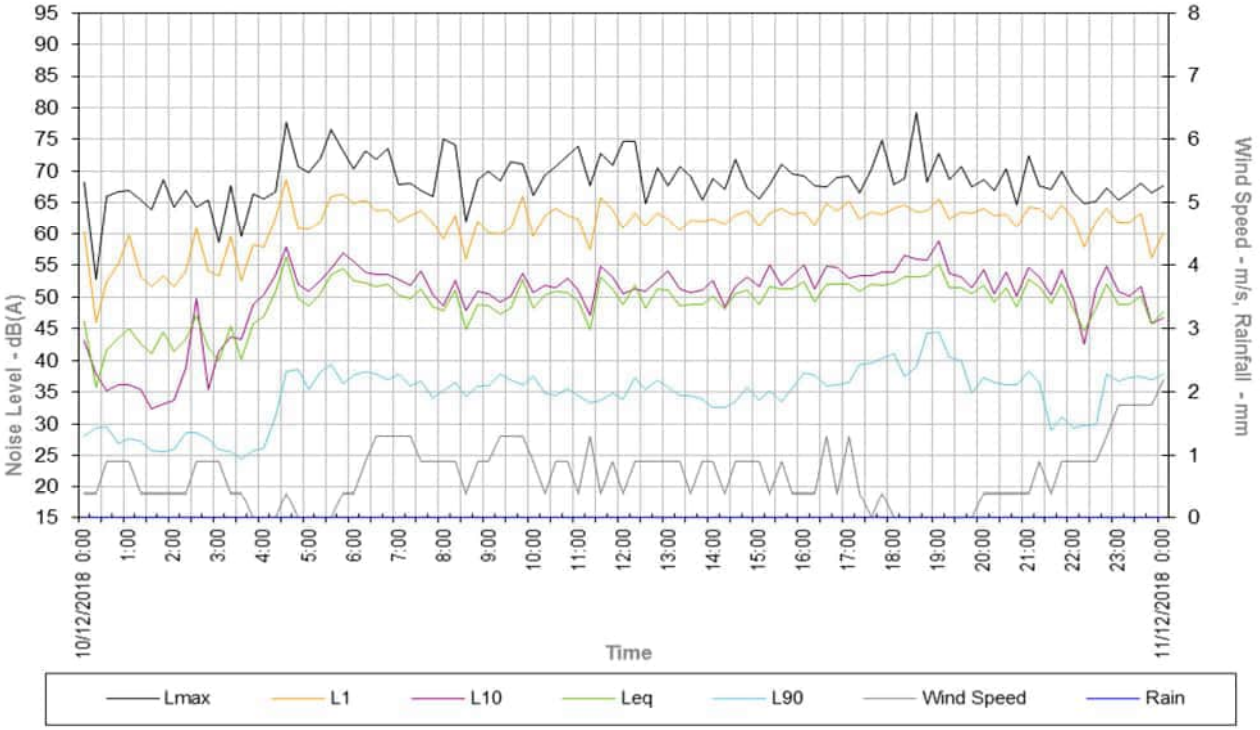




Site Noise and Weather Graphical Analysis

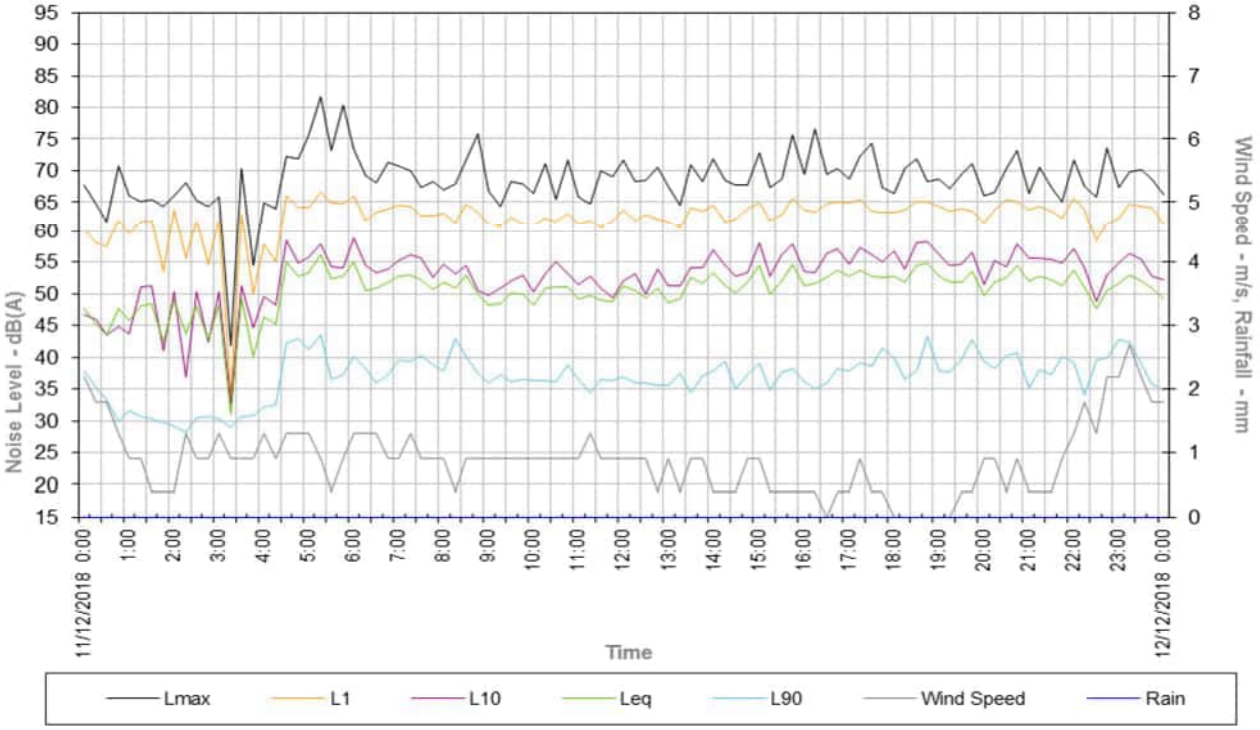
36 Taloom Street

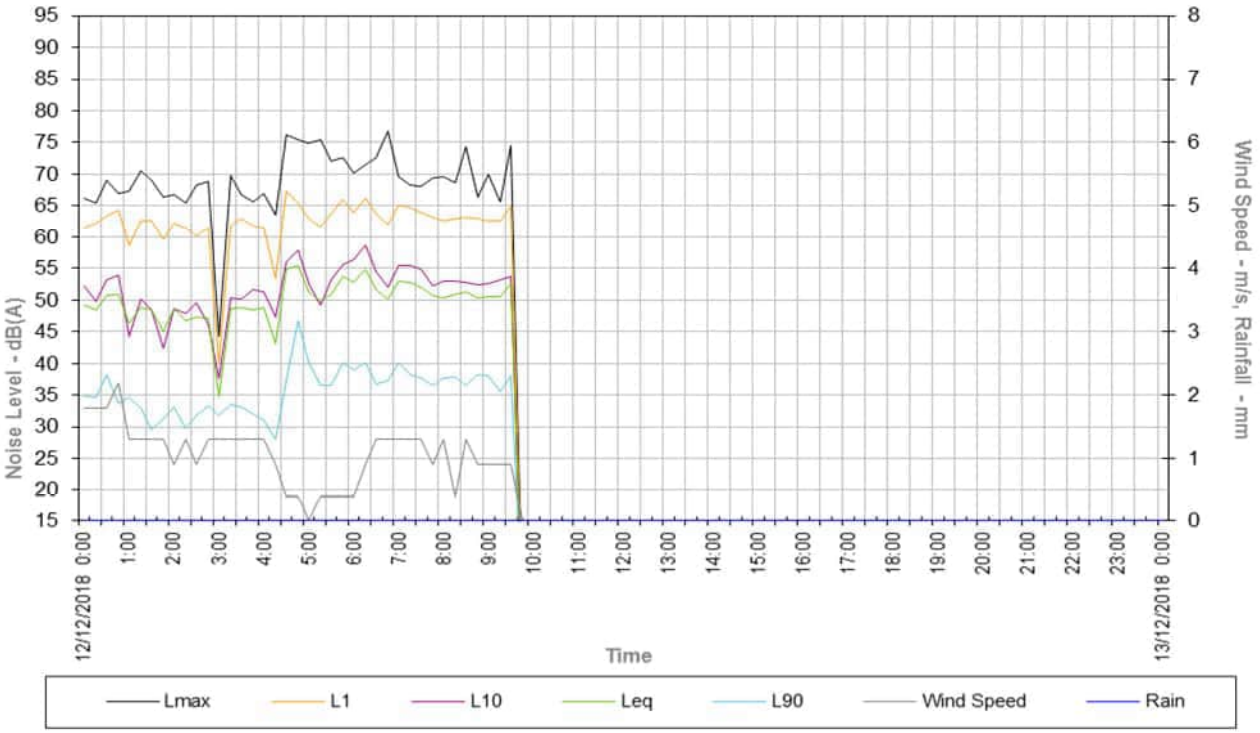




Site Noise and Weather Graphical Analysis

36 Taloom Street





Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
5/12/2018	10:15	56	89	64	56	44	0.0	0.0	0.0	0	29	42	743
5/12/2018	10:30	51	71	61	54	44	0.0	0.0	0.0	0	29	42	743
5/12/2018	10:45	53	70	64	56	44	0.0	0.0	0.0	0	30	42	743
5/12/2018	11:00	52	67	64	55	41	0.2	1.3	4.9	135	33	35	743
5/12/2018	11:15	53	68	65	55	41	0.0	0.9	4.0	68	33	35	742
5/12/2018	11:30	51	66	62	53	42	0.0	0.9	2.7	248	34	34	742
5/12/2018	11:45	51	66	61	54	40	0.0	0.9	3.1	248	34	34	742
5/12/2018	12:00	50	69	62	52	41	0.0	1.3	5.4	248	35	32	742
5/12/2018	12:15	52	67	63	54	43	0.0	1.3	6.3	248	35	31	742
5/12/2018	12:30	53	71	63	55	44	0.0	1.3	4.9	248	35	32	742
5/12/2018	12:45	50	70	63	52	40	0.0	1.3	5.4	135	34	32	741
5/12/2018	13:00	52	76	63	55	37	0.0	1.3	4.9	248	34	32	741
5/12/2018	13:15	52	72	65	53	34	0.0	1.3	5.4	270	35	32	741
5/12/2018	13:30	52	68	63	54	40	0.0	0.9	4.0	248	35	29	741
5/12/2018	13:45	54	71	65	57	36	0.0	1.3	4.0	248	36	30	741
5/12/2018	14:00	52	68	63	55	40	0.0	0.9	2.7	248	36	30	741
5/12/2018	14:15	50	75	61	51	37	0.0	0.9	4.5	135	35	30	741
5/12/2018	14:30	53	69	63	56	38	0.0	0.9	4.5	248	35	29	741
5/12/2018	14:45	51	66	61	53	41	0.0	0.9	4.9	248	35	29	741
5/12/2018	15:00	53	70	65	57	39	0.0	0.9	4.0	248	34	30	740
5/12/2018	15:15	54	74	64	58	39	0.0	0.9	3.6	248	35	28	740
5/12/2018	15:30	52	68	63	55	40	0.0	0.9	4.9	248	34	30	740
5/12/2018	15:45	52	67	63	54	41	0.0	0.4	4.0	225	34	29	740
5/12/2018	16:00	51	71	62	54	37	0.0	1.8	5.8	248	34	30	740
5/12/2018	16:15	55	68	65	59	40	0.0	1.3	5.4	248	33	31	740
5/12/2018	16:30	53	67	64	57	41	0.0	1.3	4.5	270	34	29	740
5/12/2018	16:45	53	71	64	55	42	0.0	1.3	6.3	248	34	29	740
5/12/2018	17:00	56	71	66	60	41	0.0	0.9	3.6	248	33	30	740
5/12/2018	17:15	53	70	64	56	40	0.0	1.3	4.5	248	33	30	740
5/12/2018	17:30	54	69	65	58	44	0.0	0.9	4.9	248	33	31	741
5/12/2018	17:45	53	71	64	56	41	0.0	0.4	3.1	248	33	31	741
5/12/2018	18:00	53	75	65	55	41	0.0	0.9	4.5	248	32	33	741
5/12/2018	18:15	55	76	66	59	43	0.0	0.9	4.9	248	31	34	741
5/12/2018	18:30	55	73	65	58	46	0.0	0.9	2.7	225	31	35	741
5/12/2018	18:45	54	69	64	58	46	0.0	0.9	3.1	248	30	36	742
5/12/2018	19:00	52	68	63	54	42	0.0	0.9	4.5	225	30	38	742
5/12/2018	19:15	53	71	64	56	41	0.0	0.9	4.0	248	29	40	742
5/12/2018	19:30	56	79	66	57	44	0.0	0.4	4.0	248	29	41	742
5/12/2018	19:45	54	72	64	57	44	0.0	0.9	3.1	225	28	43	742
5/12/2018	20:00	57	79	66	57	44	0.0	0.9	4.0	225	27	44	743
5/12/2018	20:15	54	71	64	57	45	0.0	0.9	4.5	225	27	46	743
5/12/2018	20:30	54	67	64	57	47	0.0	0.9	4.9	225	27	47	743
5/12/2018	20:45	55	70	65	58	44	0.0	1.3	5.8	248	26	48	743
5/12/2018	21:00	52	69	64	55	42	0.0	0.9	4.9	225	26	50	744
5/12/2018	21:15	54	69	65	58	44	0.0	0.9	4.5	225	25	51	744
5/12/2018	21:30	55	72	65	58	44	0.0	0.9	4.0	225	25	52	744
5/12/2018	21:45	51	66	62	53	41	0.0	0.9	3.1	225	25	52	744
5/12/2018	22:00	54	71	66	56	42	0.0	0.9	4.0	225	24	53	744
5/12/2018	22:15	52	70	64	54	42	0.0	0.9	4.5	225	24	53	744
5/12/2018	22:30	53	68	64	56	43	0.0	0.9	3.1	225	24	54	744
5/12/2018	22:45	54	73	65	55	42	0.0	0.9	4.0	248	24	54	744
5/12/2018	23:00	50	64	62	54	34	0.0	0.9	4.0	225	24	55	744
5/12/2018	23:15	51	66	64	53	37	0.0	0.4	3.1	225	23	57	745
5/12/2018	23:30	52	74	64	54	34	0.0	0.4	4.0	45	23	57	744
5/12/2018	23:45	51	66	63	55	33	0.0	0.4	5.8	135	23	58	744
6/12/2018	0:00	51	72	64	53	32	0.0	0.4	1.8	135	23	58	744
6/12/2018	0:15	50	66	64	54	31	0.0	0.4	4.0	135	22	59	744
6/12/2018	0:30	50	67	63	53	30	0.0	0.4	4.9	203	22	59	744
6/12/2018	0:45	47	66	61	51	29	0.0	0.4	3.6	135	22	59	744
6/12/2018	1:00	49	67	62	51	28	0.0	0.0	2.7	158	22	60	744
6/12/2018	1:15	36	55	49	37	26	0.0	0.0	1.8	248	21	61	744
6/12/2018	1:30	49	70	63	52	27	0.0	0.0	0.9	225	21	63	744
6/12/2018	1:45	49	68	63	51	27	0.0	0.0	0.4	225	21	63	744
6/12/2018	2:00	48	68	62	50	27	0.0	0.0	0.9	225	21	65	744
6/12/2018	2:15	48	66	62	51	28	0.0	0.0	1.3	225	20	66	744
6/12/2018	2:30	48	72	63	31	26	0.0	0.0	1.8	203	20	66	744
6/12/2018	2:45	47	66	60	49	28	0.0	0.0	0.4	158	20	66	744
6/12/2018	3:00	47	68	60	47	27	0.0	0.0	0.4	225	20	67	744
6/12/2018	3:15	45	65	58	46	26	0.0	0.0	0.9	225	20	68	744
6/12/2018	3:30	49	68	61	51	29	0.0	0.0	2.2	180	20	68	744

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018	3:45	45	62	55	49	26	0.0	0.0	0.4	203	20	68	744
6/12/2018	4:00	47	64	58	51	27	0.0	0.0	0.0	0	20	69	744
6/12/2018	4:15	51	71	63	53	32	0.0	0.0	1.3	203	19	69	744
6/12/2018	4:30	52	71	63	55	39	0.0	0.0	2.2	225	20	69	744
6/12/2018	4:45	55	77	66	57	39	0.0	0.0	2.2	203	20	67	744
6/12/2018	5:00	49	72	61	52	38	0.0	0.0	2.2	203	20	66	744
6/12/2018	5:15	46	67	58	49	34	0.0	0.0	2.2	45	20	64	745
6/12/2018	5:30	50	73	62	53	34	0.0	0.0	1.3	225	21	63	745
6/12/2018	5:45	52	68	64	55	38	0.0	0.0	2.2	248	21	61	745
6/12/2018	6:00	52	71	64	55	37	0.0	0.4	2.7	248	22	59	745
6/12/2018	6:15	52	67	64	54	38	0.0	0.4	2.7	225	23	56	745
6/12/2018	6:30	49	70	62	51	38	0.0	0.4	2.7	248	24	53	745
6/12/2018	6:45	52	72	64	55	40	0.0	0.4	2.7	248	25	50	745
6/12/2018	7:00	53	68	63	55	45	0.0	0.4	2.7	225	25	48	745
6/12/2018	7:15	53	68	62	56	48	0.0	0.9	4.0	225	25	48	745
6/12/2018	7:30	56	76	66	57	45	0.0	1.3	5.8	248	26	48	745
6/12/2018	7:45	55	76	64	57	48	0.0	0.9	4.0	225	26	47	745
6/12/2018	8:00	63	86	77	61	43	0.0	1.3	4.9	225	26	47	745
6/12/2018	8:15	57	79	68	60	44	0.0	0.9	4.5	225	27	47	745
6/12/2018	8:30	62	82	71	65	47	0.0	1.3	4.9	135	27	46	745
6/12/2018	8:45	59	74	66	62	48	0.0	0.9	4.0	135	28	45	745
6/12/2018	9:00	63	78	69	64	60	0.0	1.3	4.9	248	28	45	745
6/12/2018	9:15	69	82	76	73	60	0.0	1.3	4.5	158	28	44	745
6/12/2018	9:30	67	80	77	73	41	0.0	0.9	4.9	180	29	42	745
6/12/2018	9:45	51	71	62	54	41	0.0	0.9	4.5	248	30	41	745
6/12/2018	10:00	52	67	63	55	41	0.0	0.9	4.5	248	30	39	745
6/12/2018	10:15	69	77	74	72	44	0.0	0.9	3.1	248	31	37	745
6/12/2018	10:30	70	79	77	73	61	0.0	0.9	4.5	248	31	35	745
6/12/2018	10:45	72	80	77	75	63	0.0	1.3	4.5	135	31	36	745
6/12/2018	11:00	71	80	78	74	60	0.0	1.3	4.9	158	31	35	745
6/12/2018	11:15	66	79	76	72	50	0.0	0.9	3.1	248	32	35	744
6/12/2018	11:30	56	86	68	58	38	0.0	1.3	3.1	135	32	33	744
6/12/2018	11:45	56	73	69	58	37	0.0	1.3	3.1	135	33	33	744
6/12/2018	12:00	61	80	70	64	47	0.0	0.9	2.7	248	33	32	744
6/12/2018	12:15	61	89	71	63	46	0.0	1.3	4.0	158	33	31	744
6/12/2018	12:30	58	82	70	61	41	0.0	1.3	4.9	158	33	30	744
6/12/2018	12:45	61	81	67	62	51	0.0	0.9	4.5	248	34	29	744
6/12/2018	13:00	56	73	65	61	38	0.0	0.9	5.4	158	34	30	743
6/12/2018	13:15	51	70	63	53	36	0.0	1.8	4.0	135	34	29	743
6/12/2018	13:30	54	71	64	57	37	0.0	1.3	4.9	180	34	29	743
6/12/2018	13:45	52	74	64	54	37	0.0	0.9	4.0	135	35	27	743
6/12/2018	14:00	49	72	61	51	34	0.0	1.3	5.4	158	34	28	743
6/12/2018	14:15	51	69	64	53	39	0.0	1.3	4.0	135	34	28	742
6/12/2018	14:30	51	66	63	54	37	0.0	0.9	5.4	158	35	27	742
6/12/2018	14:45	52	71	64	55	37	0.0	1.3	4.5	135	34	27	742
6/12/2018	15:00	48	64	60	51	38	0.0	0.9	4.0	248	34	27	742
6/12/2018	15:15	53	67	64	57	41	0.0	1.3	3.6	248	34	28	742
6/12/2018	15:30	48	69	60	50	36	0.0	0.9	3.1	135	34	26	742
6/12/2018	15:45	52	72	64	54	39	0.0	0.9	3.1	225	34	27	742
6/12/2018	16:00	51	77	63	53	37	0.0	0.4	3.1	248	33	27	742
6/12/2018	16:15	53	72	64	56	33	0.0	0.4	4.5	248	34	27	742
6/12/2018	16:30	53	68	64	57	39	0.0	0.9	3.1	248	33	28	742
6/12/2018	16:45	55	71	66	58	42	0.0	0.9	4.5	203	33	29	742
6/12/2018	17:00	51	68	63	54	39	0.0	0.9	4.0	225	33	29	742
6/12/2018	17:15	52	67	64	55	39	0.0	0.9	4.9	225	32	29	742
6/12/2018	17:30	54	71	66	57	40	0.0	0.9	4.0	225	32	30	742
6/12/2018	17:45	49	66	61	52	40	0.0	0.9	4.0	248	32	30	743
6/12/2018	18:00	52	66	63	56	42	0.0	0.4	5.4	225	31	31	743
6/12/2018	18:15	54	67	64	58	43	0.0	0.4	2.7	225	31	32	743
6/12/2018	18:30	53	68	64	56	45	0.0	0.9	4.9	248	30	34	743
6/12/2018	18:45	54	67	63	57	48	0.0	0.9	4.0	225	29	36	743
6/12/2018	19:00	55	73	66	58	45	0.0	0.9	4.5	248	29	39	743
6/12/2018	19:15	54	67	63	57	46	0.0	0.4	2.7	248	28	41	744
6/12/2018	19:30	53	71	64	56	45	0.0	0.9	4.5	225	27	42	744
6/12/2018	19:45	54	68	64	57	47	0.0	1.3	5.4	225	27	43	744
6/12/2018	20:00	55	70	66	58	42	0.0	1.3	6.7	225	26	45	744
6/12/2018	20:15	55	70	65	59	41	0.0	0.9	4.5	248	26	45	744
6/12/2018	20:30	53	73	63	54	44	0.0	0.4	5.4	225	25	46	744
6/12/2018	20:45	48	63	60	50	38	0.0	0.9	4.5	225	25	48	745
6/12/2018	21:00	52	69	62	55	43	0.0	0.4	4.0	225	25	48	745

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018 21:15	55	70	66	58	44	0.0	0.9	4.9	248	24	49	745
6/12/2018 21:30	53	69	65	55	41	0.0	0.9	5.4	225	24	50	745
6/12/2018 21:45	55	72	66	58	38	0.0	0.9	4.0	225	24	52	745
6/12/2018 22:00	52	68	64	56	40	0.0	0.9	3.1	113	24	53	745
6/12/2018 22:15	52	67	64	55	41	0.0	0.9	5.8	135	23	54	745
6/12/2018 22:30	52	70	63	54	40	0.0	0.9	5.4	180	23	54	745
6/12/2018 22:45	50	67	62	53	39	0.0	0.4	4.0	180	23	55	745
6/12/2018 23:00	54	71	66	58	38	0.0	0.4	4.5	158	23	56	745
6/12/2018 23:15	48	65	62	51	35	0.0	0.4	2.2	180	22	56	745
6/12/2018 23:30	51	71	64	54	35	0.0	0.4	3.1	203	22	57	745
6/12/2018 23:45	49	68	62	52	33	0.0	0.4	2.7	225	22	58	745
7/12/2018 0:00	44	64	58	46	30	0.0	0.4	2.7	270	22	58	745
7/12/2018 0:15	44	64	59	45	28	0.0	0.4	2.2	180	21	59	745
7/12/2018 0:30	47	64	62	51	28	0.0	0.0	1.8	225	21	59	745
7/12/2018 0:45	50	66	64	52	29	0.0	0.0	3.1	203	21	60	745
7/12/2018 1:00	51	66	63	54	29	0.0	0.4	2.7	203	21	60	745
7/12/2018 1:15	41	62	53	41	26	0.0	0.4	1.8	45	21	60	745
7/12/2018 1:30	42	63	54	40	27	0.0	0.0	2.2	180	20	60	745
7/12/2018 1:45	49	67	63	51	29	0.0	0.0	2.2	225	20	60	745
7/12/2018 2:00	47	64	61	49	27	0.0	0.0	2.2	225	20	60	745
7/12/2018 2:15	44	65	58	40	27	0.0	0.0	2.2	203	20	60	745
7/12/2018 2:30	52	68	64	55	28	0.0	0.0	2.7	225	20	60	745
7/12/2018 2:45	43	65	56	39	26	0.0	0.0	1.8	248	20	61	745
7/12/2018 3:00	40	61	52	37	24	0.0	0.0	1.3	203	20	62	745
7/12/2018 3:15	43	64	54	46	24	0.0	0.0	0.4	248	19	63	745
7/12/2018 3:30	48	67	63	50	25	0.0	0.0	0.0	0	19	64	745
7/12/2018 3:45	46	69	58	50	27	0.0	0.0	0.9	248	18	65	745
7/12/2018 4:00	50	68	63	53	33	0.0	0.0	0.9	270	18	66	745
7/12/2018 4:15	46	63	57	50	31	0.0	0.0	0.9	225	18	66	745
7/12/2018 4:30	54	74	65	58	41	0.0	0.0	0.4	225	18	66	745
7/12/2018 4:45	51	71	63	54	40	0.0	0.0	0.9	225	18	66	745
7/12/2018 5:00	51	69	63	53	39	0.0	0.0	1.3	225	18	67	745
7/12/2018 5:15	53	76	66	55	35	0.0	0.0	1.3	225	18	67	745
7/12/2018 5:30	48	69	60	51	35	0.0	0.4	2.2	248	19	66	745
7/12/2018 5:45	52	69	64	54	36	0.0	0.9	2.2	248	19	64	745
7/12/2018 6:00	50	66	62	53	35	0.0	0.4	2.2	248	20	63	745
7/12/2018 6:15	49	67	61	52	35	0.0	0.9	3.1	45	21	60	746
7/12/2018 6:30	51	66	62	54	41	0.0	0.4	2.7	248	22	57	746
7/12/2018 6:45	50	72	62	53	39	0.0	0.4	3.1	248	23	56	746
7/12/2018 7:00	52	70	65	54	39	0.0	0.4	2.7	248	24	54	746
7/12/2018 7:15	49	66	59	52	41	0.0	0.9	2.7	225	25	53	746
7/12/2018 7:30	53	78	62	52	42	0.0	0.9	4.9	248	25	52	746
7/12/2018 7:45	49	67	59	51	42	0.0	0.9	4.5	225	26	50	746
7/12/2018 8:00	51	74	62	53	40	0.0	0.9	3.1	248	27	47	746
7/12/2018 8:15	53	70	65	55	39	0.0	0.9	3.1	203	27	47	746
7/12/2018 8:30	51	68	63	53	39	0.0	0.9	4.5	248	28	44	746
7/12/2018 8:45	55	70	65	57	47	0.0	0.9	4.5	248	28	40	746
7/12/2018 9:00	54	69	64	56	47	0.0	1.3	5.8	180	29	38	746
7/12/2018 9:15	52	65	62	56	42	0.0	1.3	4.0	248	29	37	746
7/12/2018 9:30	56	77	64	59	49	0.0	1.3	4.5	248	30	36	746
7/12/2018 9:45	71	84	80	75	53	0.0	1.8	5.8	135	29	36	746
7/12/2018 10:00	63	76	74	71	41	0.0	1.3	6.3	248	30	37	746
7/12/2018 10:15	75	88	83	80	46	0.0	1.3	5.4	248	30	38	746
7/12/2018 10:30	65	75	73	69	47	0.0	1.8	4.9	248	31	37	745
7/12/2018 10:45	70	83	81	62	44	0.0	1.3	7.2	248	31	37	745
7/12/2018 11:00	49	64	61	51	38	0.0	1.8	4.9	135	30	38	745
7/12/2018 11:15	53	69	65	56	41	0.0	1.8	4.5	135	30	38	745
7/12/2018 11:30	52	68	64	54	39	0.0	1.3	4.5	158	31	36	745
7/12/2018 11:45	48	66	61	51	38	0.0	1.3	5.4	135	31	35	745
7/12/2018 12:00	51	69	62	54	41	0.0	0.9	4.0	248	32	34	745
7/12/2018 12:15	51	70	63	54	39	0.0	1.3	8.5	135	32	33	745
7/12/2018 12:30	49	66	59	52	41	0.0	1.8	6.3	135	32	33	744
7/12/2018 12:45	51	65	63	53	40	0.0	1.3	4.5	225	33	33	744
7/12/2018 13:00	52	74	64	54	37	0.0	0.9	4.0	248	33	32	744
7/12/2018 13:15	50	66	62	53	39	0.0	0.9	5.8	248	33	33	744
7/12/2018 13:30	55	74	67	57	41	0.0	1.8	4.5	248	33	33	744
7/12/2018 13:45	53	85	61	52	37	0.0	1.3	4.0	248	33	32	744
7/12/2018 14:00	51	70	63	53	38	0.0	1.3	6.7	248	33	31	743
7/12/2018 14:15	50	66	61	52	39	0.0	1.3	5.8	248	33	32	743
7/12/2018 14:30	50	66	62	52	37	0.0	1.3	4.0	225	33	32	743

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018 14:45	52	74	64	54	41	0.0	0.9	5.4	225	33	32	743
7/12/2018 15:00	51	70	63	53	39	0.0	1.3	5.8	135	32	31	743
7/12/2018 15:15	52	73	63	55	38	0.0	1.3	4.5	248	32	31	743
7/12/2018 15:30	49	69	61	51	38	0.0	0.9	5.8	248	32	31	743
7/12/2018 15:45	49	65	60	52	39	0.0	1.3	4.0	293	32	32	743
7/12/2018 16:00	51	68	62	54	38	0.0	0.9	3.6	225	32	32	743
7/12/2018 16:15	52	69	64	55	40	0.0	0.9	4.5	225	32	32	742
7/12/2018 16:30	51	71	63	53	41	0.0	0.9	4.5	225	32	33	743
7/12/2018 16:45	53	68	64	56	45	0.0	1.3	4.9	248	31	34	742
7/12/2018 17:00	52	73	65	54	41	0.0	1.3	4.9	225	31	35	743
7/12/2018 17:15	51	67	64	54	43	0.0	0.9	4.5	225	31	35	743
7/12/2018 17:30	53	69	63	57	44	0.0	1.3	4.9	135	30	37	743
7/12/2018 17:45	54	71	65	57	44	0.0	0.9	5.8	248	30	38	743
7/12/2018 18:00	52	68	64	55	43	0.0	0.9	4.5	225	29	40	743
7/12/2018 18:15	53	67	63	55	46	0.0	0.9	3.1	225	28	41	744
7/12/2018 18:30	54	71	64	56	45	0.0	0.9	4.5	248	28	41	744
7/12/2018 18:45	54	75	66	56	44	0.0	0.9	4.5	248	27	41	744
7/12/2018 19:00	60	79	71	65	41	0.0	0.4	2.7	225	27	42	744
7/12/2018 19:15	51	70	63	53	40	0.0	0.4	2.7	225	27	44	744
7/12/2018 19:30	52	70	64	55	41	0.0	0.4	3.1	225	26	45	744
7/12/2018 19:45	52	65	64	55	38	0.0	0.9	3.1	225	26	45	745
7/12/2018 20:00	49	66	62	52	36	0.0	0.4	3.1	248	26	45	745
7/12/2018 20:15	52	69	64	54	37	0.0	0.4	3.1	225	26	47	745
7/12/2018 20:30	52	69	64	55	38	0.0	0.4	3.1	180	25	48	745
7/12/2018 20:45	51	76	63	53	38	0.0	0.4	4.0	248	25	49	745
7/12/2018 21:00	50	68	63	53	37	0.0	0.4	2.2	225	25	50	745
7/12/2018 21:15	49	64	61	52	34	0.0	0.4	2.2	225	24	53	745
7/12/2018 21:30	43	64	54	43	33	0.0	0.4	1.8	225	24	53	745
7/12/2018 21:45	49	66	61	52	35	0.0	0.4	2.7	248	24	53	746
7/12/2018 22:00	49	70	62	52	34	0.0	0.4	2.7	248	24	55	746
7/12/2018 22:15	50	69	63	53	34	0.0	0.4	2.7	248	23	55	746
7/12/2018 22:30	39	67	52	38	30	0.0	0.4	3.1	225	23	56	746
7/12/2018 22:45	51	68	64	54	30	0.0	0.0	1.3	225	23	57	746
7/12/2018 23:00	48	66	62	49	35	0.0	0.0	1.8	248	23	58	746
7/12/2018 23:15	48	66	61	50	35	0.0	0.4	4.5	248	22	59	746
7/12/2018 23:30	51	72	64	51	35	0.0	0.4	4.9	248	22	59	746
7/12/2018 23:45	44	65	56	43	36	0.0	0.4	4.0	248	22	60	746
8/12/2018 0:00	49	67	62	52	31	0.0	0.4	2.7	225	22	60	746
8/12/2018 0:15	49	66	63	52	29	0.0	0.0	1.8	203	22	61	746
8/12/2018 0:30	48	67	62	49	26	0.0	0.0	1.3	225	21	62	745
8/12/2018 0:45	42	65	53	37	25	0.0	0.0	1.3	180	21	64	745
8/12/2018 1:00	51	68	63	53	28	0.0	0.0	0.9	225	21	65	745
8/12/2018 1:15	47	67	61	49	27	0.0	0.0	0.9	203	21	65	745
8/12/2018 1:30	43	64	54	42	25	0.0	0.0	0.9	248	20	66	745
8/12/2018 1:45	49	66	63	51	26	0.0	0.0	1.8	248	20	67	745
8/12/2018 2:00	48	68	62	50	25	0.0	0.0	0.9	135	20	67	745
8/12/2018 2:15	47	67	62	50	24	0.0	0.0	0.4	270	20	67	745
8/12/2018 2:30	47	67	62	49	24	0.0	0.0	0.0	0	19	68	745
8/12/2018 2:45	48	67	62	50	24	0.0	0.0	0.4	270	19	68	745
8/12/2018 3:00	48	67	61	49	24	0.0	0.0	0.9	270	19	68	745
8/12/2018 3:15	44	64	56	48	24	0.0	0.0	0.0	0	19	70	745
8/12/2018 3:30	44	63	55	48	25	0.0	0.0	0.0	0	19	71	745
8/12/2018 3:45	44	63	54	48	24	0.0	0.0	0.0	0	19	70	745
8/12/2018 4:00	48	66	59	51	25	0.0	0.0	0.0	0	18	71	745
8/12/2018 4:15	47	65	59	51	29	0.0	0.0	0.0	0	18	71	745
8/12/2018 4:30	55	80	67	56	38	0.0	0.0	0.4	270	18	71	745
8/12/2018 4:45	54	75	65	57	43	0.0	0.0	0.0	0	18	72	745
8/12/2018 5:00	51	79	63	52	40	0.0	0.0	0.0	0	18	73	746
8/12/2018 5:15	48	65	59	50	36	0.0	0.0	0.0	0	18	72	746
8/12/2018 5:30	48	69	61	50	36	0.0	0.0	0.0	0	18	72	746
8/12/2018 5:45	48	72	60	51	35	0.0	0.0	0.4	270	19	69	746
8/12/2018 6:00	49	67	63	50	34	0.0	0.0	0.4	270	20	67	746
8/12/2018 6:15	49	75	62	51	34	0.0	0.0	1.3	270	22	63	746
8/12/2018 6:30	50	70	63	53	34	0.0	0.4	2.7	248	23	60	746
8/12/2018 6:45	46	62	58	50	34	0.0	0.4	4.0	248	23	58	746
8/12/2018 7:00	49	71	61	50	36	0.0	0.9	3.1	248	24	55	746
8/12/2018 7:15	50	69	62	53	39	0.0	0.4	2.2	225	25	54	746
8/12/2018 7:30	48	70	60	50	39	0.0	0.9	4.5	225	25	53	746
8/12/2018 7:45	65	88	79	55	42	0.0	0.9	4.5	248	26	52	746
8/12/2018 8:00	51	75	61	52	42	0.0	0.9	4.0	248	27	48	746

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018 8:15	48	63	57	50	42	0.0	1.3	4.5	248	27	48	746
8/12/2018 8:30	52	70	62	55	40	0.0	1.3	4.5	135	27	49	746
8/12/2018 8:45	54	68	63	59	41	0.0	0.9	2.7	135	27	48	746
8/12/2018 9:00	50	66	61	52	41	0.0	1.8	5.4	158	28	45	746
8/12/2018 9:15	50	67	63	52	39	0.0	1.3	4.9	113	29	43	746
8/12/2018 9:30	50	66	62	53	37	0.0	1.8	5.8	135	29	42	745
8/12/2018 9:45	51	68	62	53	41	0.0	1.8	5.4	135	29	41	745
8/12/2018 10:00	51	66	64	54	40	0.0	1.8	7.2	135	30	40	745
8/12/2018 10:15	50	66	61	52	38	0.0	1.8	4.9	135	30	39	745
8/12/2018 10:30	51	68	62	55	41	0.0	1.3	4.9	225	31	38	745
8/12/2018 10:45	48	71	60	50	38	0.0	1.3	4.5	225	31	37	745
8/12/2018 11:00	50	69	62	52	36	0.0	1.3	4.5	248	32	36	745
8/12/2018 11:15	50	71	62	53	37	0.0	1.3	6.7	135	32	37	744
8/12/2018 11:30	52	69	63	54	40	0.0	1.8	5.4	135	31	36	744
8/12/2018 11:45	52	68	65	53	36	0.0	1.3	5.4	135	32	35	744
8/12/2018 12:00	50	67	63	52	38	0.0	0.9	3.6	135	33	34	744
8/12/2018 12:15	48	69	61	50	34	0.0	1.8	4.5	135	33	34	744
8/12/2018 12:30	48	65	61	50	36	0.0	1.3	4.5	135	33	33	743
8/12/2018 12:45	49	65	61	52	37	0.0	1.3	5.4	135	34	32	743
8/12/2018 13:00	46	67	60	48	33	0.0	1.8	7.6	135	34	31	743
8/12/2018 13:15	46	62	55	50	36	0.0	1.3	4.5	158	34	31	743
8/12/2018 13:30	50	72	62	51	35	0.0	1.8	5.4	158	34	30	743
8/12/2018 13:45	48	70	61	50	37	0.0	1.8	4.5	158	34	31	743
8/12/2018 14:00	51	69	63	53	38	0.0	1.3	4.5	135	35	32	742
8/12/2018 14:15	50	67	63	52	34	0.0	0.9	3.1	248	34	32	742
8/12/2018 14:30	51	67	63	53	35	0.0	0.9	2.7	248	34	31	742
8/12/2018 14:45	52	72	64	53	36	0.0	0.4	2.2	315	35	31	742
8/12/2018 15:00	44	59	55	47	35	0.0	0.9	4.9	248	34	32	742
8/12/2018 15:15	47	68	60	49	35	0.0	0.4	4.0	270	34	32	742
8/12/2018 15:30	50	67	62	52	37	0.0	0.4	2.7	158	34	32	742
8/12/2018 15:45	50	67	62	51	35	0.0	1.3	3.1	248	34	33	742
8/12/2018 16:00	53	73	65	54	38	0.0	0.4	4.0	248	33	34	742
8/12/2018 16:15	49	65	62	51	38	0.0	0.9	3.6	248	34	34	742
8/12/2018 16:30	49	67	63	51	32	0.0	0.4	3.1	248	33	34	741
8/12/2018 16:45	50	67	62	53	39	0.0	0.4	2.2	135	34	34	741
8/12/2018 17:00	52	67	64	54	36	0.0	0.9	4.0	135	34	33	742
8/12/2018 17:15	50	68	62	53	37	0.0	1.8	5.4	158	33	36	742
8/12/2018 17:30	51	66	62	53	39	0.0	1.3	4.5	135	32	38	742
8/12/2018 17:45	53	67	64	56	43	0.0	1.8	4.9	135	32	39	742
8/12/2018 18:00	50	70	62	52	41	0.0	2.7	6.7	135	31	40	742
8/12/2018 18:15	53	70	64	56	39	0.0	1.8	4.5	135	31	41	743
8/12/2018 18:30	54	67	64	58	44	0.0	1.8	5.4	135	30	42	743
8/12/2018 18:45	55	69	64	58	49	0.0	1.8	5.8	135	30	43	743
8/12/2018 19:00	53	70	64	56	44	0.0	1.8	7.2	135	29	45	743
8/12/2018 19:15	50	66	61	53	41	0.0	1.8	5.8	135	28	46	744
8/12/2018 19:30	51	66	62	54	42	0.0	2.2	7.6	135	28	48	744
8/12/2018 19:45	51	69	63	55	42	0.0	1.8	5.8	135	27	48	744
8/12/2018 20:00	48	62	59	50	40	0.0	2.2	6.3	135	27	49	744
8/12/2018 20:15	51	67	63	55	39	0.0	1.8	5.4	135	27	49	744
8/12/2018 20:30	52	67	63	55	41	0.0	1.3	4.9	135	26	49	744
8/12/2018 20:45	49	65	61	51	41	0.0	1.8	4.9	135	26	50	745
8/12/2018 21:00	45	64	58	47	36	0.0	1.8	5.4	135	26	51	745
8/12/2018 21:15	49	67	63	52	36	0.0	0.9	5.4	158	26	51	745
8/12/2018 21:30	48	64	60	50	38	0.0	0.9	5.4	135	25	51	745
8/12/2018 21:45	51	66	63	54	36	0.0	1.3	4.5	135	25	52	745
8/12/2018 22:00	49	68	61	52	35	0.0	0.4	2.7	180	25	53	745
8/12/2018 22:15	49	71	62	50	34	0.0	0.4	2.7	135	25	54	745
8/12/2018 22:30	47	64	60	49	33	0.0	0.4	2.7	135	24	55	744
8/12/2018 22:45	45	68	56	45	34	0.0	0.4	3.1	158	24	56	744
8/12/2018 23:00	54	71	65	58	38	0.0	0.4	4.9	113	24	57	744
8/12/2018 23:15	45	66	55	44	35	0.0	0.9	4.0	135	24	58	744
8/12/2018 23:30	47	68	58	48	37	0.0	0.9	4.0	135	23	59	744
8/12/2018 23:45	48	64	60	51	36	0.0	1.3	4.5	135	23	59	744
9/12/2018 0:00	43	63	54	42	34	0.0	1.8	4.9	135	23	60	744
9/12/2018 0:15	50	69	63	49	35	0.0	1.3	3.1	135	23	61	744
9/12/2018 0:30	43	65	55	42	32	0.0	1.8	4.5	135	23	62	744
9/12/2018 0:45	45	65	59	46	27	0.0	1.3	3.1	135	23	62	744
9/12/2018 1:00	47	68	59	48	26	0.0	0.4	4.9	135	22	62	744
9/12/2018 1:15	42	62	56	43	26	0.0	0.0	1.3	180	22	63	744
9/12/2018 1:30	43	66	54	35	25	0.0	0.0	0.9	293	22	64	744

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018 1:45	45	63	58	45	29	0.0	0.0	0.4	180	21	65	744
9/12/2018 2:00	43	63	56	43	27	0.0	0.0	2.7	158	21	65	743
9/12/2018 2:15	45	65	58	46	26	0.0	0.4	2.2	113	21	65	743
9/12/2018 2:30	28	45	35	29	25	0.0	0.0	1.8	225	21	66	743
9/12/2018 2:45	36	56	48	38	25	0.0	0.0	0.9	158	21	67	743
9/12/2018 3:00	33	50	46	31	24	0.0	0.0	0.0	0	20	68	743
9/12/2018 3:15	44	64	58	46	25	0.0	0.0	0.4	203	20	69	743
9/12/2018 3:30	50	67	64	52	29	0.0	0.0	0.0	0	20	71	743
9/12/2018 3:45	38	59	49	41	25	0.0	0.0	0.0	0	20	71	743
9/12/2018 4:00	51	66	63	54	30	0.0	0.0	0.0	0	19	72	744
9/12/2018 4:15	46	59	53	49	33	0.0	0.0	0.0	0	19	72	744
9/12/2018 4:30	55	77	67	57	43	0.0	0.0	0.0	0	19	73	744
9/12/2018 4:45	53	72	64	56	44	0.0	0.0	0.4	203	19	74	744
9/12/2018 5:00	51	71	62	52	40	0.0	0.0	0.4	203	19	74	744
9/12/2018 5:15	48	69	60	50	36	0.0	0.0	0.4	203	19	74	744
9/12/2018 5:30	52	70	64	55	37	0.0	0.0	1.3	203	19	73	744
9/12/2018 5:45	50	73	63	51	36	0.0	0.0	1.3	225	20	71	744
9/12/2018 6:00	44	69	56	46	32	0.0	0.4	1.8	248	21	69	744
9/12/2018 6:15	50	73	63	51	33	0.0	0.4	2.2	248	22	65	744
9/12/2018 6:30	46	66	58	49	35	0.0	0.4	2.7	248	23	62	744
9/12/2018 6:45	47	65	60	50	34	0.0	0.4	2.7	248	24	59	744
9/12/2018 7:00	49	69	62	50	36	0.0	0.4	2.2	248	25	56	744
9/12/2018 7:15	50	66	62	52	36	0.0	0.4	2.7	248	25	55	744
9/12/2018 7:30	43	62	54	47	35	0.0	0.4	2.2	248	27	53	744
9/12/2018 7:45	48	64	59	50	38	0.0	0.4	2.2	203	27	51	744
9/12/2018 8:00	50	68	63	52	37	0.0	0.4	2.2	225	28	50	744
9/12/2018 8:15	47	71	57	51	37	0.0	0.9	4.5	135	27	52	744
9/12/2018 8:30	47	68	58	49	36	0.0	0.9	3.1	158	28	49	744
9/12/2018 8:45	47	64	59	49	36	0.0	0.9	2.7	135	29	48	744
9/12/2018 9:00	47	78	57	48	37	0.0	0.4	3.1	203	30	46	744
9/12/2018 9:15	48	69	59	51	35	0.0	0.9	3.1	135	30	45	744
9/12/2018 9:30	49	64	61	52	35	0.0	0.9	4.0	135	31	44	744
9/12/2018 9:45	43	60	54	47	35	0.0	0.9	4.9	180	31	42	744
9/12/2018 10:00	49	71	61	50	35	0.0	0.9	4.5	135	32	40	743
9/12/2018 10:15	48	71	61	49	34	0.0	0.9	4.5	158	32	40	743
9/12/2018 10:30	50	69	63	52	36	0.0	0.9	3.1	135	33	38	743
9/12/2018 10:45	49	67	63	51	35	0.0	0.4	2.7	135	34	36	743
9/12/2018 11:00	50	70	62	51	36	0.0	1.8	4.9	135	33	37	743
9/12/2018 11:15	47	65	60	49	35	0.0	0.9	2.7	180	34	36	743
9/12/2018 11:30	49	66	62	51	35	0.0	0.4	2.7	248	35	34	742
9/12/2018 11:45	49	67	62	51	34	0.0	1.3	4.0	248	35	34	742
9/12/2018 12:00	50	75	62	52	35	0.0	0.9	6.3	135	35	33	742
9/12/2018 12:15	50	66	63	52	36	0.0	0.9	3.1	135	35	32	742
9/12/2018 12:30	50	70	63	50	35	0.0	0.4	3.1	113	36	32	742
9/12/2018 12:45	50	68	63	52	33	0.0	0.9	3.1	225	36	32	742
9/12/2018 13:00	50	67	63	52	36	0.0	1.3	4.9	135	36	31	741
9/12/2018 13:15	52	79	65	54	36	0.0	0.9	4.9	248	36	30	741
9/12/2018 13:30	50	65	63	51	36	0.0	0.9	4.5	135	36	30	741
9/12/2018 13:45	48	66	61	50	36	0.0	1.3	3.1	135	36	30	741
9/12/2018 14:00	50	68	62	51	36	0.0	0.9	6.3	248	36	30	741
9/12/2018 14:15	50	69	63	52	36	0.0	0.9	3.1	315	36	29	740
9/12/2018 14:30	48	74	60	49	37	0.0	0.9	2.7	135	36	30	740
9/12/2018 14:45	51	67	62	53	36	0.0	0.9	4.5	248	37	29	740
9/12/2018 15:00	51	75	64	52	40	0.0	0.9	3.1	135	36	30	740
9/12/2018 15:15	54	70	64	58	40	0.0	0.9	5.8	270	37	28	740
9/12/2018 15:30	52	70	65	53	36	0.0	0.9	3.1	135	37	27	740
9/12/2018 15:45	52	69	63	54	42	0.0	0.9	2.7	315	35	29	739
9/12/2018 16:00	52	71	65	55	38	0.0	0.4	4.0	180	36	28	739
9/12/2018 16:15	54	68	64	57	42	0.0	0.4	2.2	248	36	27	739
9/12/2018 16:30	51	67	63	54	38	0.0	0.9	4.9	203	36	27	739
9/12/2018 16:45	53	72	65	57	38	0.0	0.4	3.1	248	36	27	739
9/12/2018 17:00	52	67	64	55	39	0.0	0.4	2.7	248	36	28	739
9/12/2018 17:15	52	71	62	55	40	0.0	0.9	4.5	135	35	28	739
9/12/2018 17:30	53	73	65	56	41	0.0	0.9	3.1	135	35	29	739
9/12/2018 17:45	54	71	65	57	42	0.0	0.9	4.5	135	35	30	740
9/12/2018 18:00	52	68	63	56	41	0.0	1.8	5.4	135	34	30	740
9/12/2018 18:15	54	69	65	58	43	0.0	1.3	4.0	135	34	30	740
9/12/2018 18:30	55	72	65	59	46	0.0	1.8	4.9	135	33	31	740
9/12/2018 18:45	56	72	67	60	43	0.0	1.8	4.5	135	33	31	740
9/12/2018 19:00	53	71	65	56	36	0.0	1.3	3.1	135	33	32	740

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	19:15	51	70	63	53	34	0.0	1.3	3.6	135	32	32	740
9/12/2018	19:30	54	75	66	55	33	0.0	0.9	2.7	135	32	33	740
9/12/2018	19:45	49	65	62	53	33	0.0	0.9	2.2	135	32	34	741
9/12/2018	20:00	45	63	59	45	32	0.0	0.9	2.7	135	31	35	741
9/12/2018	20:15	51	69	63	54	32	0.0	1.3	2.7	135	31	36	741
9/12/2018	20:30	40	58	47	43	34	0.0	0.9	3.1	135	31	36	741
9/12/2018	20:45	51	73	64	51	36	0.0	1.3	4.5	135	30	38	741
9/12/2018	21:00	51	72	64	53	37	0.0	1.8	4.5	135	30	41	741
9/12/2018	21:15	51	68	63	54	37	0.0	1.8	4.9	135	29	43	742
9/12/2018	21:30	48	65	60	50	38	0.0	1.8	4.5	135	29	47	742
9/12/2018	21:45	51	70	63	52	37	0.0	1.8	4.9	135	28	50	742
9/12/2018	22:00	47	66	61	49	35	0.0	1.8	4.5	135	28	52	742
9/12/2018	22:15	45	62	57	48	35	0.0	1.3	3.1	135	27	53	742
9/12/2018	22:30	48	70	62	46	31	0.0	1.3	4.5	135	27	54	743
9/12/2018	22:45	46	65	60	46	32	0.0	0.9	2.7	135	27	55	743
9/12/2018	23:00	45	66	56	42	33	0.0	1.3	4.5	135	26	56	743
9/12/2018	23:15	41	62	54	41	29	0.0	1.3	4.5	135	26	57	743
9/12/2018	23:30	47	67	61	48	27	0.0	0.9	2.2	135	26	59	743
9/12/2018	23:45	45	68	58	46	28	0.0	0.4	3.1	135	26	59	743
10/12/2018	0:00	46	68	60	43	28	0.0	0.4	2.7	135	25	60	743
10/12/2018	0:15	36	53	46	38	29	0.0	0.4	2.2	158	25	61	743
10/12/2018	0:30	42	66	52	35	30	0.0	0.9	3.1	135	25	62	742
10/12/2018	0:45	44	67	55	36	27	0.0	0.9	2.7	135	25	63	742
10/12/2018	1:00	45	67	60	36	28	0.0	0.9	2.7	135	24	64	742
10/12/2018	1:15	43	66	53	35	27	0.0	0.4	2.2	158	24	65	742
10/12/2018	1:30	41	64	52	32	26	0.0	0.4	1.8	135	24	65	742
10/12/2018	1:45	44	69	53	33	26	0.0	0.4	1.8	135	24	66	742
10/12/2018	2:00	41	64	52	34	26	0.0	0.4	1.8	135	23	67	742
10/12/2018	2:15	43	67	54	39	29	0.0	0.4	4.0	135	23	68	742
10/12/2018	2:30	47	64	61	50	29	0.0	0.9	2.2	135	23	67	742
10/12/2018	2:45	42	66	54	35	28	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:00	40	59	53	42	26	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:15	45	68	60	44	26	0.0	0.4	2.2	158	23	69	742
10/12/2018	3:30	40	60	53	43	25	0.0	0.4	2.2	158	22	69	742
10/12/2018	3:45	46	66	58	49	26	0.0	0.0	1.3	158	22	70	742
10/12/2018	4:00	47	66	58	50	26	0.0	0.0	1.3	158	22	71	742
10/12/2018	4:15	51	67	63	54	31	0.0	0.0	1.8	135	22	71	742
10/12/2018	4:30	56	78	69	58	38	0.0	0.4	1.8	135	22	71	742
10/12/2018	4:45	50	71	61	52	39	0.0	0.0	0.9	135	22	72	742
10/12/2018	5:00	49	70	61	51	35	0.0	0.0	0.9	180	21	73	742
10/12/2018	5:15	51	72	62	53	38	0.0	0.0	2.2	158	21	73	742
10/12/2018	5:30	54	77	66	55	39	0.0	0.0	1.3	158	21	73	742
10/12/2018	5:45	54	73	66	57	36	0.0	0.4	2.2	135	22	71	742
10/12/2018	6:00	53	70	65	56	38	0.0	0.4	2.2	135	23	69	742
10/12/2018	6:15	52	73	65	54	38	0.0	0.9	4.0	135	24	66	742
10/12/2018	6:30	52	72	64	54	38	0.0	1.3	4.5	135	24	64	743
10/12/2018	6:45	52	74	64	54	37	0.0	1.3	3.1	135	25	63	743
10/12/2018	7:00	50	68	62	53	38	0.0	1.3	3.1	135	26	61	743
10/12/2018	7:15	50	68	63	52	36	0.0	1.3	4.5	135	26	60	743
10/12/2018	7:30	51	67	64	54	37	0.0	0.9	2.7	135	27	58	743
10/12/2018	7:45	48	66	62	50	34	0.0	0.9	2.7	135	27	56	743
10/12/2018	8:00	48	75	59	49	35	0.0	0.9	2.7	135	28	54	743
10/12/2018	8:15	51	74	63	53	37	0.0	0.9	3.1	158	28	53	743
10/12/2018	8:30	45	62	56	48	34	0.0	0.4	2.7	203	29	51	743
10/12/2018	8:45	49	69	62	51	36	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:00	49	70	60	51	36	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:15	47	69	60	49	38	0.0	1.3	4.5	158	31	46	742
10/12/2018	9:30	48	71	61	50	37	0.0	1.3	4.0	135	31	45	742
10/12/2018	9:45	53	71	66	54	36	0.0	1.3	3.1	135	31	43	742
10/12/2018	10:00	48	66	60	51	37	0.0	0.9	3.1	180	32	41	742
10/12/2018	10:15	50	69	63	52	35	0.0	0.4	3.1	270	33	40	742
10/12/2018	10:30	51	71	64	51	35	0.0	0.9	4.0	135	33	39	742
10/12/2018	10:45	51	72	63	53	36	0.0	0.9	3.6	180	33	36	742
10/12/2018	11:00	49	74	62	51	34	0.0	0.4	4.9	135	34	34	742
10/12/2018	11:15	45	68	58	47	33	0.0	1.3	4.5	135	34	33	742
10/12/2018	11:30	53	73	66	55	34	0.0	0.4	3.1	68	34	34	741
10/12/2018	11:45	51	71	64	53	35	0.0	0.9	2.7	135	35	33	741
10/12/2018	12:00	49	75	61	51	34	0.0	0.4	1.8	180	35	32	741
10/12/2018	12:15	52	75	63	51	37	0.0	0.9	3.1	248	36	30	741
10/12/2018	12:30	48	65	61	51	35	0.0	0.9	2.7	248	36	31	741

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	12:45	51	71	63	53	37	0.0	0.9	3.1	293	35	32	740
10/12/2018	13:00	51	68	63	54	36	0.0	0.9	3.6	158	35	31	740
10/12/2018	13:15	49	71	61	51	34	0.0	0.9	3.1	225	36	31	740
10/12/2018	13:30	49	69	62	51	35	0.0	0.4	2.2	158	36	30	740
10/12/2018	13:45	49	65	62	51	34	0.0	0.9	3.1	135	37	30	739
10/12/2018	14:00	50	69	62	53	33	0.0	0.9	4.5	248	36	30	739
10/12/2018	14:15	48	67	62	49	33	0.0	0.4	2.2	225	37	29	739
10/12/2018	14:30	51	72	63	52	34	0.0	0.9	2.7	135	38	28	739
10/12/2018	14:45	51	67	64	53	36	0.0	0.9	2.7	248	37	29	739
10/12/2018	15:00	49	66	61	52	34	0.0	0.9	3.1	248	37	29	738
10/12/2018	15:15	52	68	63	55	35	0.0	0.4	2.7	158	37	28	738
10/12/2018	15:30	51	71	64	52	34	0.0	0.9	3.1	113	37	28	738
10/12/2018	15:45	51	70	63	53	36	0.0	0.4	2.2	315	37	27	738
10/12/2018	16:00	52	69	64	55	38	0.0	0.4	1.8	225	37	27	738
10/12/2018	16:15	49	68	62	51	38	0.0	0.4	2.7	270	37	27	738
10/12/2018	16:30	52	68	65	55	36	0.0	1.3	3.1	293	36	27	738
10/12/2018	16:45	52	69	64	55	36	0.0	0.4	1.8	248	37	26	738
10/12/2018	17:00	52	69	65	53	37	0.0	1.3	2.7	113	36	26	738
10/12/2018	17:15	51	67	62	53	39	0.0	0.4	2.2	113	36	26	738
10/12/2018	17:30	52	70	64	53	40	0.0	0.0	1.8	203	36	26	738
10/12/2018	17:45	52	75	63	54	40	0.0	0.4	3.1	225	36	26	738
10/12/2018	18:00	52	68	64	54	41	0.0	0.0	0.9	135	36	27	739
10/12/2018	18:15	53	69	65	57	37	0.0	0.0	2.2	135	36	27	739
10/12/2018	18:30	53	79	64	56	39	0.0	0.0	1.3	158	35	27	739
10/12/2018	18:45	53	68	64	56	44	0.0	0.0	0.4	135	35	28	739
10/12/2018	19:00	55	73	66	59	45	0.0	0.0	0.0	0	34	29	739
10/12/2018	19:15	52	69	62	54	41	0.0	0.0	0.0	0	33	30	739
10/12/2018	19:30	52	71	64	53	40	0.0	0.0	0.0	0	33	31	739
10/12/2018	19:45	51	68	63	51	35	0.0	0.0	0.4	135	33	31	739
10/12/2018	20:00	52	69	64	54	37	0.0	0.4	1.8	135	33	31	739
10/12/2018	20:15	49	67	63	51	37	0.0	0.4	1.8	135	33	32	740
10/12/2018	20:30	51	70	63	54	36	0.0	0.4	2.2	135	32	33	740
10/12/2018	20:45	49	65	61	50	36	0.0	0.4	2.2	158	32	36	740
10/12/2018	21:00	53	73	64	55	38	0.0	0.4	2.2	158	32	38	740
10/12/2018	21:15	52	68	64	53	37	0.0	0.9	3.1	135	31	39	740
10/12/2018	21:30	49	67	62	50	29	0.0	0.4	2.2	135	31	40	741
10/12/2018	21:45	52	70	65	54	31	0.0	0.9	2.7	158	31	40	741
10/12/2018	22:00	48	67	62	50	29	0.0	0.9	3.1	135	31	41	741
10/12/2018	22:15	45	65	58	43	30	0.0	0.9	2.7	158	30	42	741
10/12/2018	22:30	48	65	62	51	30	0.0	0.9	3.1	135	30	43	741
10/12/2018	22:45	52	67	64	55	38	0.0	1.3	4.9	135	30	45	741
10/12/2018	23:00	49	65	62	51	37	0.0	1.8	6.7	135	29	47	741
10/12/2018	23:15	49	67	62	50	37	0.0	1.8	5.8	135	29	49	741
10/12/2018	23:30	50	68	63	52	38	0.0	1.8	5.8	135	28	51	741
10/12/2018	23:45	46	67	56	46	37	0.0	1.8	5.8	135	28	53	741
11/12/2018	0:00	48	68	60	47	38	0.0	2.2	5.8	135	28	55	741
11/12/2018	0:15	45	65	58	46	35	0.0	1.8	4.9	135	27	56	741
11/12/2018	0:30	44	62	58	44	33	0.0	1.8	4.9	135	27	57	741
11/12/2018	0:45	48	71	62	45	30	0.0	1.3	4.5	135	27	58	741
11/12/2018	1:00	46	66	60	44	32	0.0	0.9	2.7	135	26	59	741
11/12/2018	1:15	48	65	62	51	31	0.0	0.9	2.7	135	26	60	741
11/12/2018	1:30	48	66	62	51	30	0.0	0.4	2.2	135	26	61	741
11/12/2018	1:45	42	64	54	41	30	0.0	0.4	2.2	135	26	62	741
11/12/2018	2:00	49	66	64	50	29	0.0	0.4	3.1	135	25	63	741
11/12/2018	2:15	44	68	56	37	28	0.0	1.3	2.7	135	25	63	741
11/12/2018	2:30	48	65	62	50	31	0.0	0.9	2.2	135	25	64	741
11/12/2018	2:45	43	64	55	42	31	0.0	0.9	2.7	135	25	65	741
11/12/2018	3:00	48	66	62	50	30	0.0	1.3	2.7	135	25	65	741
11/12/2018	3:15	31	42	34	33	29	0.0	0.9	2.7	135	24	66	741
11/12/2018	3:30	49	70	63	51	31	0.0	0.9	2.2	135	24	67	741
11/12/2018	3:45	40	54	50	45	31	0.0	0.9	4.0	158	24	67	741
11/12/2018	4:00	46	65	58	50	32	0.0	1.3	3.1	135	24	67	741
11/12/2018	4:15	45	64	55	48	33	0.0	0.9	2.7	135	23	68	741
11/12/2018	4:30	55	72	66	58	42	0.0	1.3	4.0	135	23	68	741
11/12/2018	4:45	53	72	64	55	43	0.0	1.3	3.6	135	23	68	741
11/12/2018	5:00	53	76	64	56	41	0.0	1.3	3.1	135	23	68	741
11/12/2018	5:15	56	82	67	58	44	0.0	0.9	3.1	135	23	68	741
11/12/2018	5:30	52	73	65	54	37	0.0	0.4	2.2	135	23	67	742
11/12/2018	5:45	53	80	65	54	37	0.0	0.9	2.2	158	24	67	742
11/12/2018	6:00	55	73	66	59	40	0.0	1.3	4.5	135	24	66	742

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018 6:15	51	69	62	54	38	0.0	1.3	4.5	135	25	64	742
11/12/2018 6:30	51	68	63	53	36	0.0	1.3	3.1	135	25	62	742
11/12/2018 6:45	52	71	64	54	37	0.0	0.9	2.7	135	26	58	743
11/12/2018 7:00	53	71	65	55	40	0.0	0.9	4.0	135	27	56	742
11/12/2018 7:15	53	70	64	56	39	0.0	1.3	4.0	135	27	54	742
11/12/2018 7:30	52	67	63	56	40	0.0	0.9	4.0	135	28	52	742
11/12/2018 7:45	51	68	63	53	39	0.0	0.9	4.0	135	28	53	742
11/12/2018 8:00	52	67	63	55	38	0.0	0.9	3.1	135	27	54	742
11/12/2018 8:15	51	68	62	53	43	0.0	0.4	2.2	135	29	51	742
11/12/2018 8:30	53	72	65	55	40	0.0	0.9	4.0	135	30	49	742
11/12/2018 8:45	50	76	63	51	37	0.0	0.9	3.1	158	31	46	742
11/12/2018 9:00	48	67	61	50	36	0.0	0.9	3.6	158	31	46	742
11/12/2018 9:15	49	64	61	51	37	0.0	0.9	3.1	135	32	45	742
11/12/2018 9:30	50	68	63	52	36	0.0	0.9	2.7	135	32	42	742
11/12/2018 9:45	50	68	61	53	37	0.0	0.9	4.0	135	32	42	742
11/12/2018 10:00	48	66	61	50	36	0.0	0.9	2.7	225	33	42	742
11/12/2018 10:15	51	71	62	53	36	0.0	0.9	2.7	248	33	40	742
11/12/2018 10:30	51	66	62	55	36	0.0	0.9	3.1	293	32	41	742
11/12/2018 10:45	51	72	63	53	39	0.0	0.9	3.1	293	32	41	742
11/12/2018 11:00	49	66	61	52	37	0.0	0.9	5.4	248	33	40	742
11/12/2018 11:15	50	65	62	53	35	0.0	1.3	4.5	248	33	40	742
11/12/2018 11:30	49	70	61	51	37	0.0	0.9	2.7	293	33	39	742
11/12/2018 11:45	49	69	62	49	36	0.0	0.9	3.1	248	34	36	741
11/12/2018 12:00	51	72	64	52	37	0.0	0.9	3.1	248	35	36	741
11/12/2018 12:15	51	68	62	53	36	0.0	0.9	3.1	315	35	36	741
11/12/2018 12:30	49	68	63	50	36	0.0	0.9	3.1	248	35	35	740
11/12/2018 12:45	51	71	62	54	36	0.0	0.4	3.1	225	35	34	740
11/12/2018 13:00	49	68	62	51	36	0.0	0.9	9.8	203	35	33	740
11/12/2018 13:15	49	65	61	51	37	0.0	0.4	2.2	248	36	31	740
11/12/2018 13:30	53	71	64	54	35	0.0	0.9	2.7	248	35	32	740
11/12/2018 13:45	52	68	64	54	37	0.0	0.9	4.0	248	35	32	740
11/12/2018 14:00	53	72	65	57	38	0.0	0.4	4.0	158	35	32	739
11/12/2018 14:15	51	68	62	54	39	0.0	0.4	2.2	270	35	32	739
11/12/2018 14:30	50	68	62	53	35	0.0	0.4	2.7	225	37	29	739
11/12/2018 14:45	52	68	64	53	37	0.0	0.9	3.1	135	37	29	739
11/12/2018 15:00	55	73	65	58	39	0.0	0.9	3.1	225	37	29	739
11/12/2018 15:15	50	67	62	53	35	0.0	0.4	2.2	135	37	28	739
11/12/2018 15:30	52	69	63	56	38	0.0	0.4	2.7	248	36	29	738
11/12/2018 15:45	55	76	66	58	38	0.0	0.4	2.7	248	36	28	738
11/12/2018 16:00	51	70	64	54	36	0.0	0.4	2.7	135	36	29	738
11/12/2018 16:15	52	77	63	53	35	0.0	0.4	2.2	158	36	29	738
11/12/2018 16:30	53	70	65	56	36	0.0	0.0	1.8	248	36	30	738
11/12/2018 16:45	54	70	65	57	38	0.0	0.4	1.8	270	36	30	738
11/12/2018 17:00	53	69	65	55	38	0.0	0.4	1.8	248	36	30	738
11/12/2018 17:15	54	72	65	57	39	0.0	0.9	2.7	135	36	30	738
11/12/2018 17:30	53	74	64	56	39	0.0	0.4	2.2	158	36	30	738
11/12/2018 17:45	53	67	63	55	41	0.0	0.4	2.7	135	36	30	738
11/12/2018 18:00	53	66	63	57	40	0.0	0.0	1.3	248	35	31	738
11/12/2018 18:15	52	70	64	54	37	0.0	0.0	0.9	248	35	31	738
11/12/2018 18:30	54	72	65	58	38	0.0	0.0	0.4	248	35	31	738
11/12/2018 18:45	55	68	65	58	43	0.0	0.0	1.8	203	34	31	738
11/12/2018 19:00	53	69	64	56	38	0.0	0.0	3.1	203	34	31	739
11/12/2018 19:15	52	67	64	55	38	0.0	0.0	1.8	0	34	33	739
11/12/2018 19:30	52	69	64	55	40	0.0	0.4	2.7	225	33	35	739
11/12/2018 19:45	54	71	64	57	43	0.0	0.4	3.6	225	33	37	739
11/12/2018 20:00	50	66	62	52	39	0.0	0.9	3.6	225	32	38	739
11/12/2018 20:15	52	67	64	55	38	0.0	0.9	3.1	225	31	39	739
11/12/2018 20:30	53	70	66	54	40	0.0	0.4	3.1	248	31	41	740
11/12/2018 20:45	55	73	65	58	41	0.0	0.9	4.5	225	30	42	740
11/12/2018 21:00	52	66	64	56	35	0.0	0.4	4.5	248	30	43	740
11/12/2018 21:15	53	71	64	56	38	0.0	0.4	3.1	225	30	44	740
11/12/2018 21:30	52	67	64	56	37	0.0	0.4	4.5	203	29	45	740
11/12/2018 21:45	51	65	62	55	40	0.0	0.9	5.4	135	29	46	740
11/12/2018 22:00	54	72	66	57	39	0.0	1.3	6.3	135	29	48	740
11/12/2018 22:15	51	68	64	54	34	0.0	1.8	4.9	135	29	49	740
11/12/2018 22:30	48	66	59	49	40	0.0	1.3	3.1	135	29	50	741
11/12/2018 22:45	51	74	62	53	40	0.0	2.2	5.8	135	28	50	741
11/12/2018 23:00	52	67	62	55	43	0.0	2.2	5.4	135	28	51	741
11/12/2018 23:15	53	70	65	56	42	0.0	2.7	6.3	135	28	53	741
11/12/2018 23:30	52	70	64	55	39	0.0	2.2	6.7	135	27	55	741

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018 23:45	51	69	64	53	36	0.0	1.8	5.4	135	27	56	741
12/12/2018 0:00	49	66	62	52	35	0.0	1.8	5.4	135	27	57	741
12/12/2018 0:15	48	65	62	50	35	0.0	1.8	4.5	135	26	58	740
12/12/2018 0:30	51	69	63	53	38	0.0	1.8	4.0	135	26	58	740
12/12/2018 0:45	51	67	64	54	34	0.0	2.2	4.9	135	26	59	740
12/12/2018 1:00	46	67	59	44	35	0.0	1.3	3.6	135	26	59	740
12/12/2018 1:15	49	71	63	50	33	0.0	1.3	3.1	158	26	60	740
12/12/2018 1:30	49	69	63	48	30	0.0	1.3	3.1	135	25	61	740
12/12/2018 1:45	45	66	60	42	31	0.0	1.3	3.6	135	25	62	740
12/12/2018 2:00	49	67	62	49	33	0.0	0.9	4.9	135	25	64	740
12/12/2018 2:15	47	66	62	48	30	0.0	1.3	4.9	135	25	65	740
12/12/2018 2:30	47	68	60	50	32	0.0	0.9	2.7	135	25	65	740
12/12/2018 2:45	47	69	61	46	33	0.0	1.3	4.0	158	24	66	740
12/12/2018 3:00	35	44	40	38	32	0.0	1.3	4.5	135	24	66	740
12/12/2018 3:15	49	70	62	50	34	0.0	1.3	3.1	135	24	67	740
12/12/2018 3:30	49	67	63	50	33	0.0	1.3	3.1	135	24	68	740
12/12/2018 3:45	48	66	62	52	32	0.0	1.3	3.1	135	24	68	740
12/12/2018 4:00	49	67	61	51	31	0.0	1.3	3.1	135	24	69	739
12/12/2018 4:15	43	64	53	47	28	0.0	0.9	2.7	135	23	69	740
12/12/2018 4:30	55	76	67	56	37	0.0	0.4	2.2	158	23	69	740
12/12/2018 4:45	55	75	65	58	47	0.0	0.4	1.8	135	23	69	740
12/12/2018 5:00	51	75	63	53	40	0.0	0.0	1.8	158	23	70	740
12/12/2018 5:15	50	75	62	49	37	0.0	0.4	2.2	135	23	70	740
12/12/2018 5:30	51	72	64	53	37	0.0	0.4	1.8	135	23	70	740
12/12/2018 5:45	54	73	66	56	40	0.0	0.4	2.7	135	24	70	740
12/12/2018 6:00	53	70	64	56	39	0.0	0.4	2.2	135	24	69	740
12/12/2018 6:15	55	71	66	59	40	0.0	0.9	3.1	135	24	68	741
12/12/2018 6:30	52	73	64	54	37	0.0	1.3	4.0	135	25	67	741
12/12/2018 6:45	50	77	62	52	37	0.0	1.3	4.0	158	25	66	741
12/12/2018 7:00	53	70	65	55	40	0.0	1.3	4.9	135	26	64	741
12/12/2018 7:15	53	68	65	56	38	0.0	1.3	4.5	158	26	62	741
12/12/2018 7:30	52	68	64	55	38	0.0	1.3	4.0	135	27	60	741
12/12/2018 7:45	51	69	63	52	37	0.0	0.9	4.0	135	27	58	741
12/12/2018 8:00	50	70	63	53	38	0.0	1.3	4.0	135	28	56	741
12/12/2018 8:15	51	69	63	53	38	0.0	0.4	3.1	180	29	52	741
12/12/2018 8:30	51	74	63	53	37	0.0	1.3	3.1	135	29	53	741
12/12/2018 8:45	50	66	63	52	38	0.0	0.9	4.5	135	30	50	741
12/12/2018 9:00	51	70	63	53	38	0.0	0.9	3.1	135	31	48	740
12/12/2018 9:15	51	66	63	53	36	0.0	0.9	4.9	158	31	46	740
12/12/2018 9:30	53	75	65	54	38	0.0	0.9	4.5	135	32	44	740

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_03

From	Wednesday 5/12/2018 11:30	Meas. Type	Free Field	Package	Border to Gowrie
To	Wednesday 12/12/2018 10:30	Mic. Height (m)	1.8	Address	23 Lagoon Street
Instrument Type	Larson Davis 831	Weather Station	No	Suburb	Yelarbon
Instrument Serial #	2578	Operator	JR	Land Use	Residential
Inst. Cal. Date	20/6/2017	Sample Int.	15 min	Latitude	28°34'34.10"S
Pre Calibration	94	RP Lot#	13/Y56915	Longitude	150°45'18.50"E
Post Calibration	94				

Daytime		Evening		Night	
RBL	**41.4 dB(A)**	RBL	**40.1 dB(A)**	RBL	**23.8 dB(A)**

ABLs Day (Mon-Fri 7am - 6 pm)

ABLs Day (Sat 8 am - 1 pm)

Wednesday 5/12/2018	41.5	dB(A)
Thursday 6/12/2018	41.4	dB(A)
Friday 7/12/2018	42.4	dB(A)
Saturday 8/12/2018	41	dB(A)
Monday 10/12/2018	40.5	dB(A)
Tuesday 11/12/2018	43.2	dB(A)
Wednesday 12/12/2018	41.4	dB(A)

ABLs Evening (Mon-Fri 6 pm - 10 pm)

ABLs Evening (Sat 1 pm - 10 pm)

ABLs Evening (Sun 7 am - 10 pm)

Wednesday 5/12/2018	40.9	dB(A)
Thursday 6/12/2018	40.9	dB(A)
Friday 7/12/2018	38.8	dB(A)
Saturday 8/12/2018	40.1	dB(A)
Sunday 9/12/2018	40.1	dB(A)
Monday 10/12/2018	39.1	dB(A)
Tuesday 11/12/2018	36.2	dB(A)

ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)

ABLs Night (Fri 6pm - 8am)

Wednesday 5/12/2018	23.8	dB(A)
Thursday 6/12/2018	<23	dB(A)
Friday 7/12/2018	<23	dB(A)
Saturday 8/12/2018	<23	dB(A)
Sunday 9/12/2018	25.7	dB(A)
Monday 10/12/2018	30.6	dB(A)
Tuesday 11/12/2018	32.8	dB(A)

Site Diagram - Diagram

Future Freight
Integrating Community, Environment and Engineering

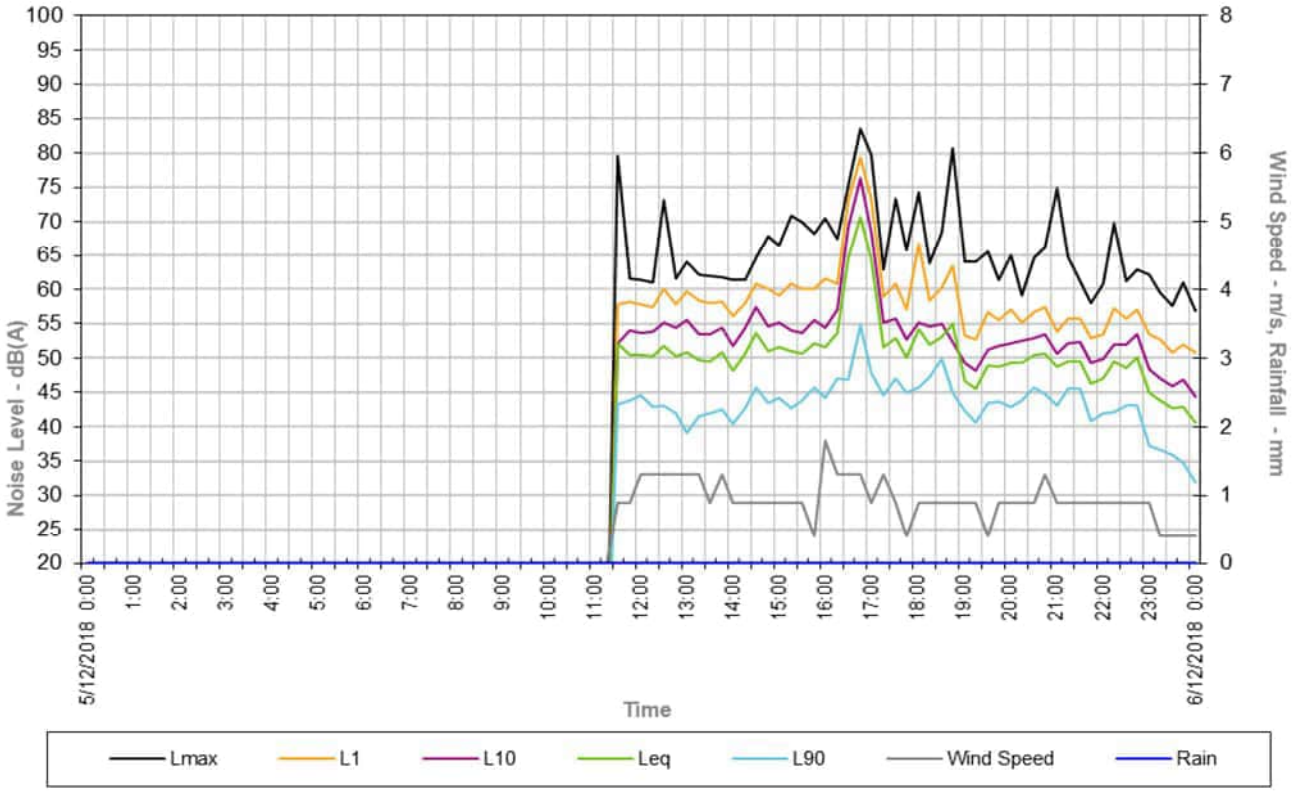
Site Attended Measurements Summary

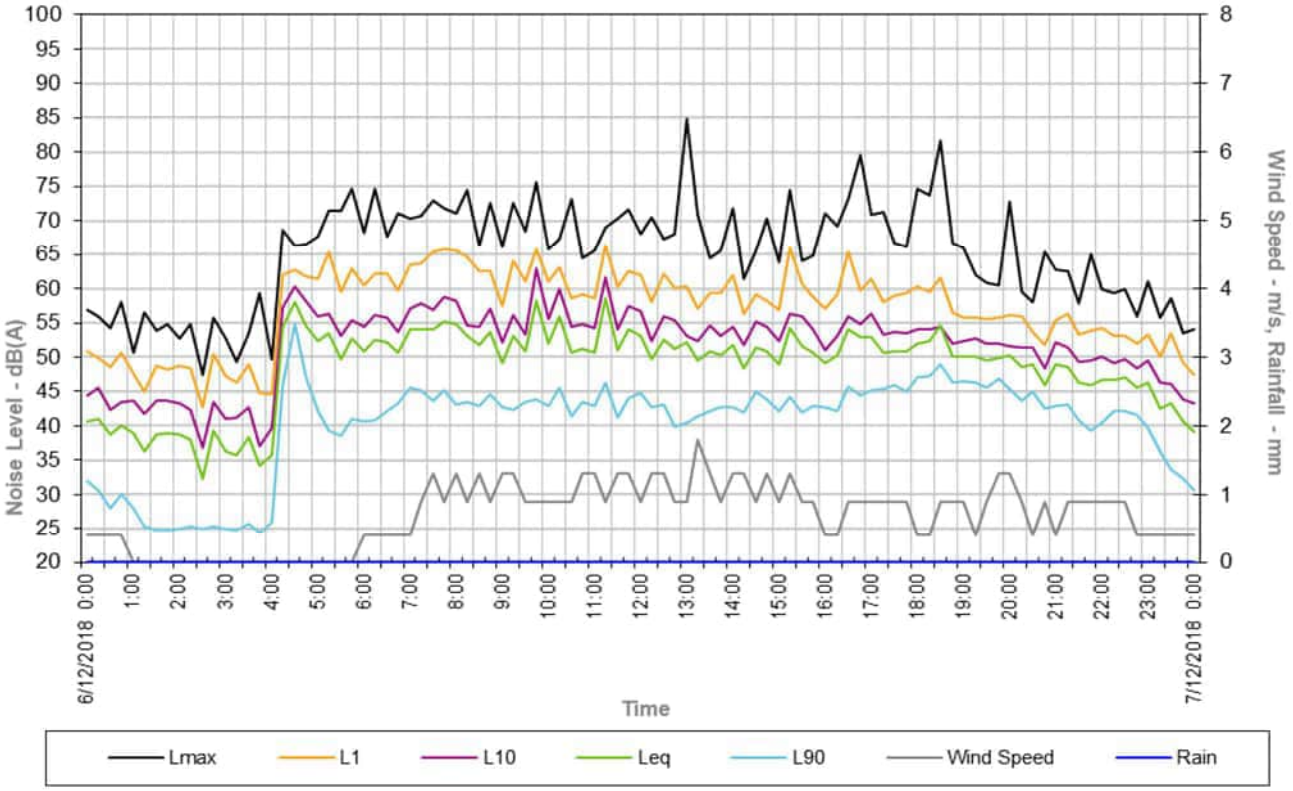
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
5/12/2018	11:15 AM	Attended	96.0	55.5	49.7	38.6	58.7	Pass	11:30 AM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Attended measurement started before the start of the logging period. Background is distant road traffic noise barely audible at 45-43 dB(A). Angle grinder next door at 55 dB(A).								
12/12/2018	10:30 AM	Attended	100.6	59.3	53.2	38.0	63.9	Pass	10:45 AM
		Logged	66.5	63.0	55.2	44.6	52.5		
		Difference	34.1	-3.7	-2.0	-6.6	11.4		
Comments	Lmax differenced caused by accidental bump on meter. Background is bird and insect noise at 45-46 dB(A). Dog barking next door at 47-66 dB(A). Angle grinder next door at 59-60 dB(A).								

Photos

Site Noise and Weather Graphical Analysis

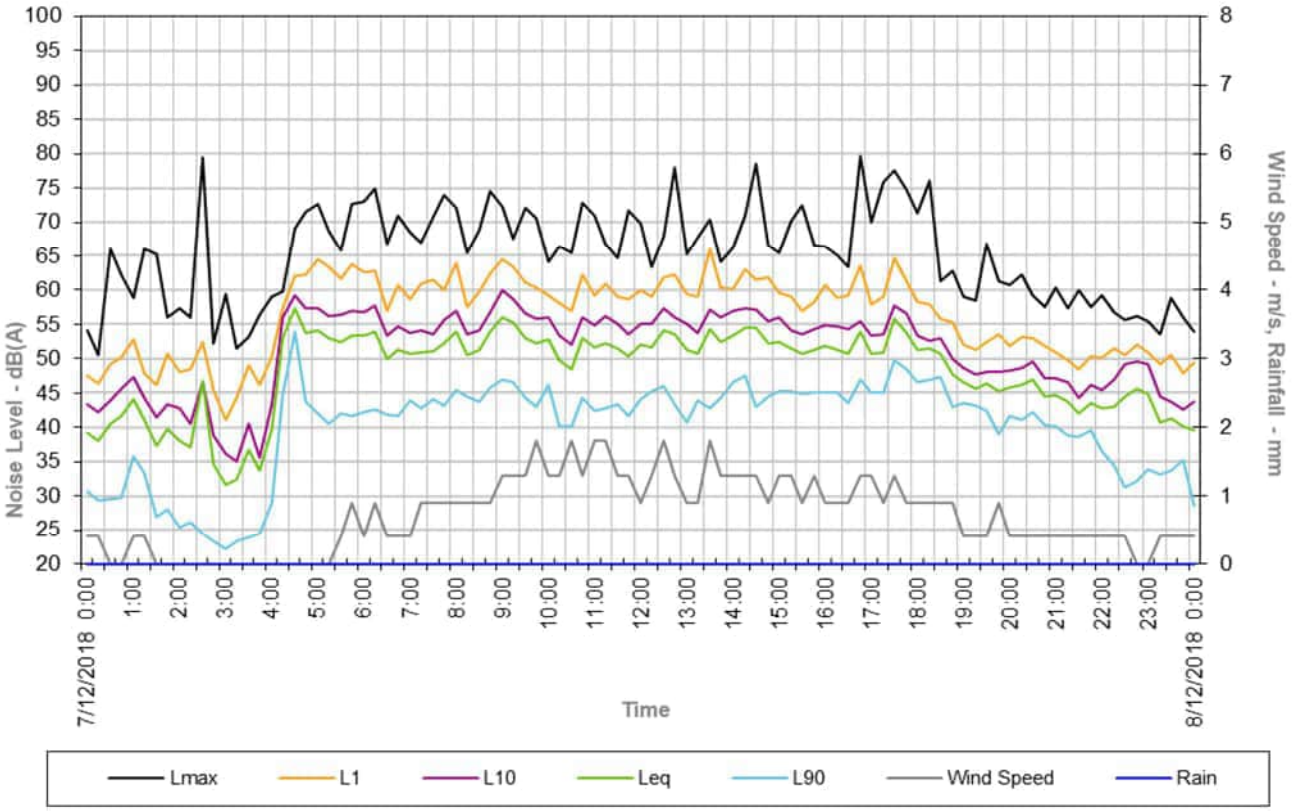
23 Lagoon Street

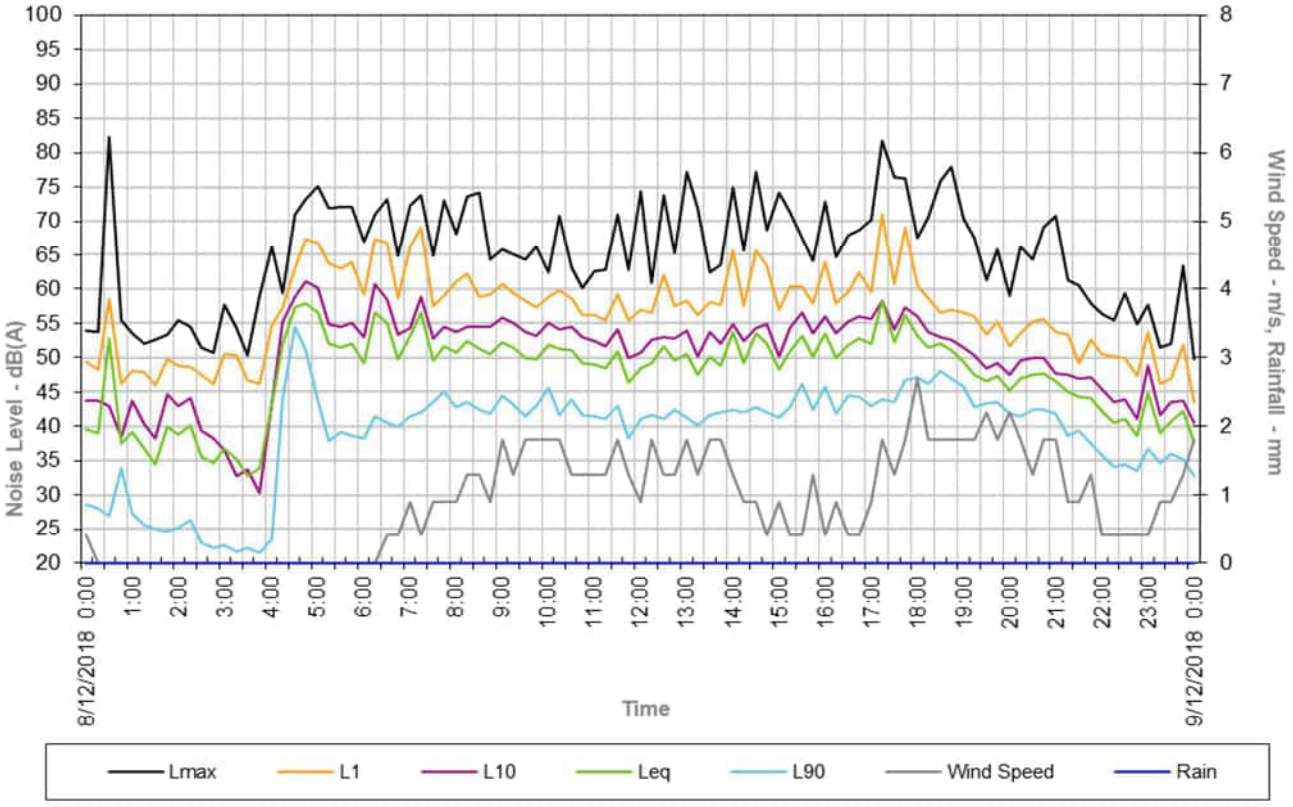




Site Noise and Weather Graphical Analysis

23 Lagoon Street

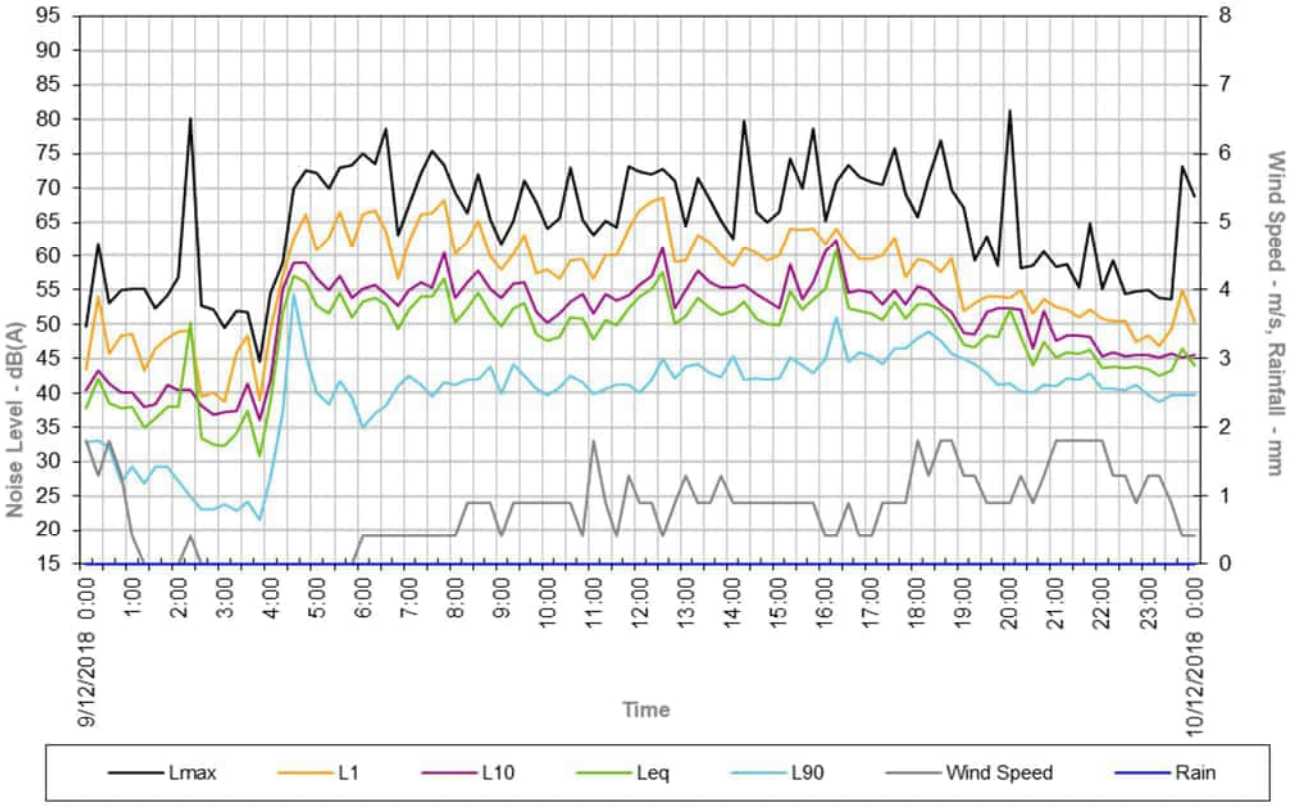


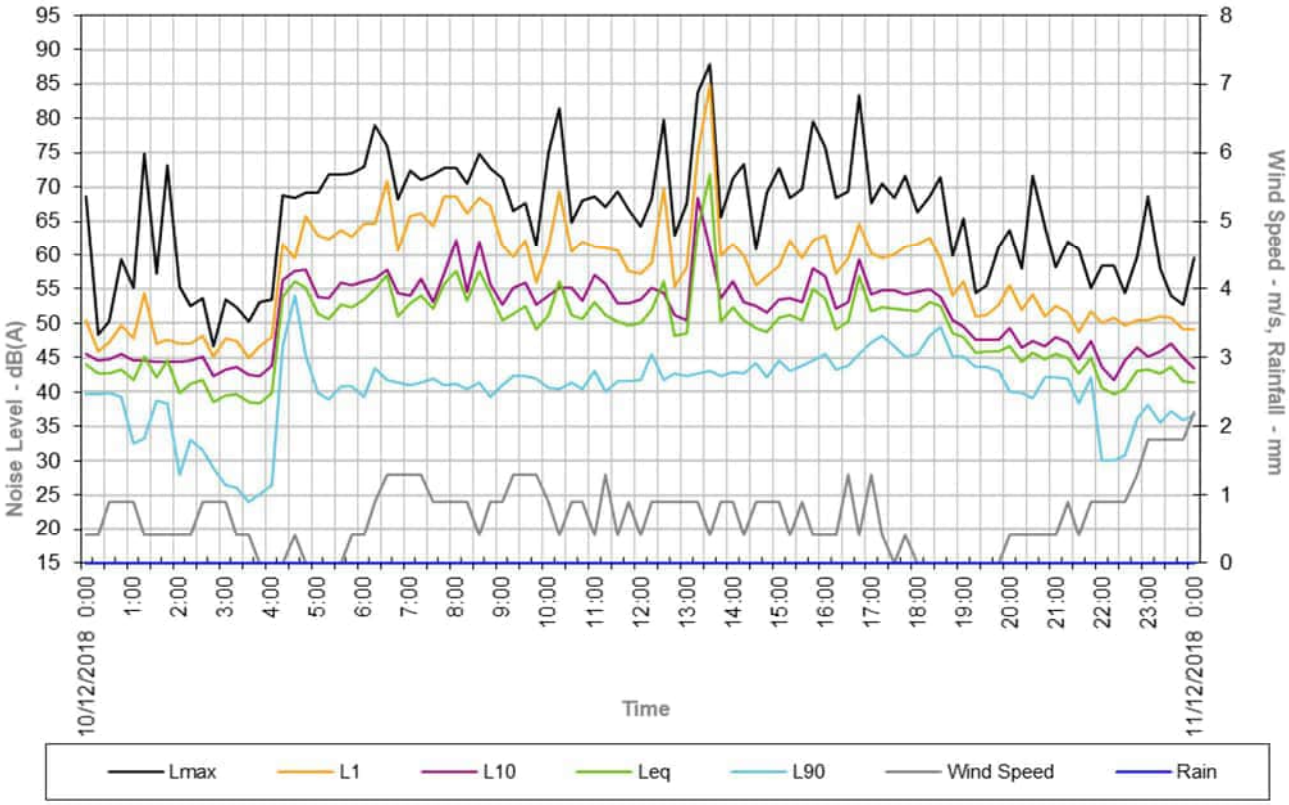


Future Freight
Integrating Community, Environment and Engineering

Site Noise and Weather Graphical Analysis

23 Lagoon Street

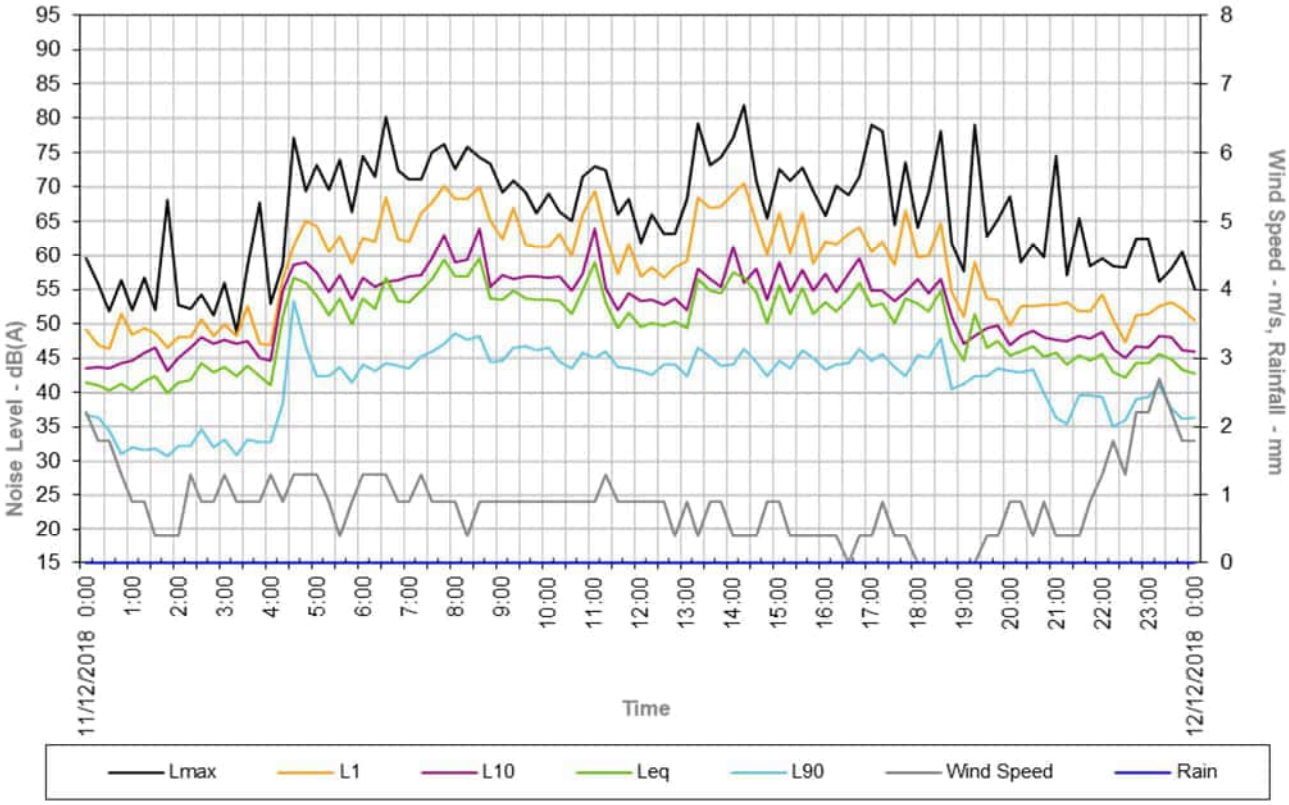


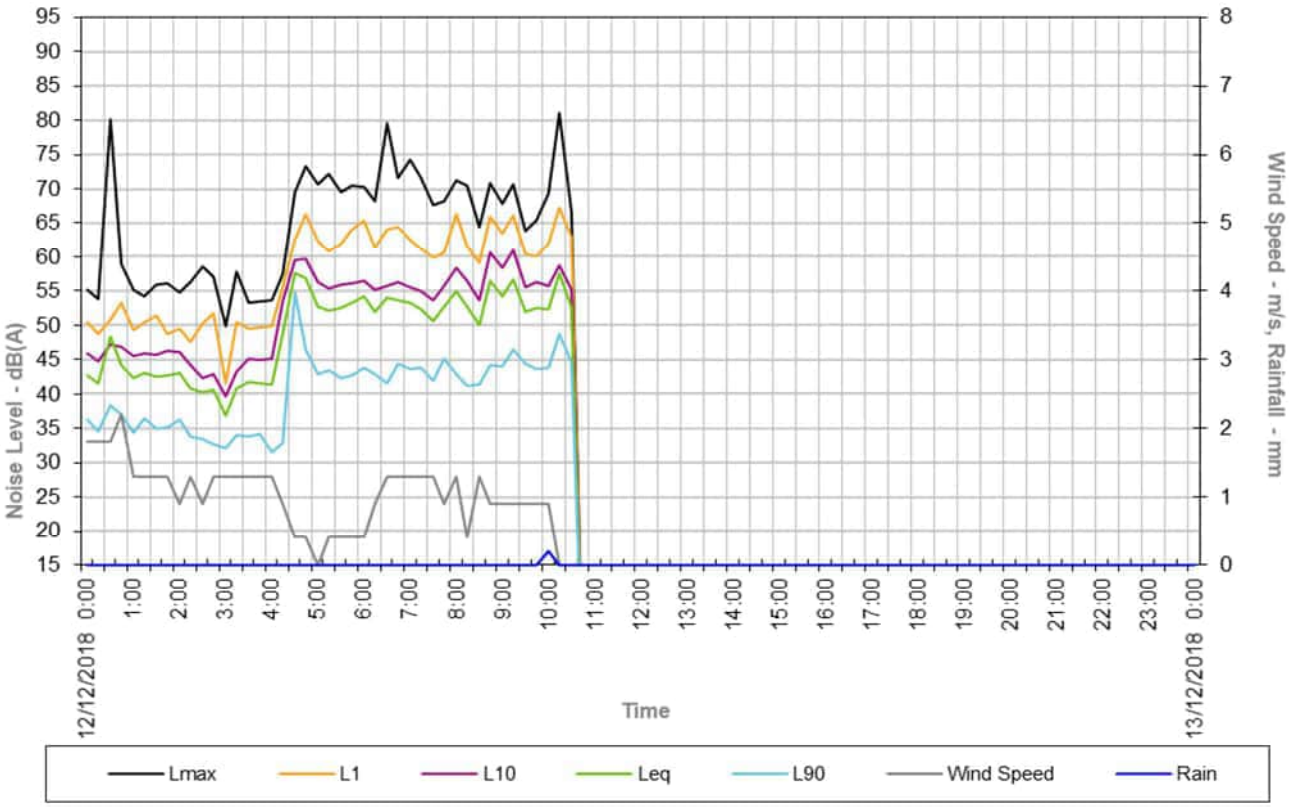


Future Freight
Integrating Community, Environment and Engineering

Site Noise and Weather Graphical Analysis

23 Lagoon Street





Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
5/12/2018	11:30	52	80	58	52	43	0.0	0.9	2.7	248	34	34	742
5/12/2018	11:45	50	62	58	54	44	0.0	0.9	3.1	248	34	34	742
5/12/2018	12:00	50	62	58	54	45	0.0	1.3	5.4	248	35	32	742
5/12/2018	12:15	50	61	57	54	43	0.0	1.3	6.3	248	35	31	742
5/12/2018	12:30	52	73	60	55	43	0.0	1.3	4.9	248	35	32	742
5/12/2018	12:45	50	62	58	54	42	0.0	1.3	5.4	135	34	32	741
5/12/2018	13:00	51	64	60	56	39	0.0	1.3	4.9	248	34	32	741
5/12/2018	13:15	50	62	58	54	42	0.0	1.3	5.4	270	35	32	741
5/12/2018	13:30	50	62	58	54	42	0.0	0.9	4.0	248	35	29	741
5/12/2018	13:45	51	62	58	55	43	0.0	1.3	4.0	248	36	30	741
5/12/2018	14:00	48	62	56	52	40	0.0	0.9	2.7	248	36	30	741
5/12/2018	14:15	51	61	58	55	43	0.0	0.9	4.5	135	35	30	741
5/12/2018	14:30	54	65	61	58	46	0.0	0.9	4.5	248	35	29	741
5/12/2018	14:45	51	68	60	55	43	0.0	0.9	4.9	248	35	29	741
5/12/2018	15:00	52	67	59	55	44	0.0	0.9	4.0	248	34	30	740
5/12/2018	15:15	51	71	61	54	43	0.0	0.9	3.6	248	35	28	740
5/12/2018	15:30	51	70	60	54	44	0.0	0.9	4.9	248	34	30	740
5/12/2018	15:45	52	68	60	56	46	0.0	0.4	4.0	225	34	29	740
5/12/2018	16:00	52	71	62	55	44	0.0	1.8	5.8	248	34	30	740
5/12/2018	16:15	54	67	61	57	47	0.0	1.3	5.4	248	33	31	740
5/12/2018	16:30	65	75	73	69	47	0.0	1.3	4.5	270	34	29	740
5/12/2018	16:45	71	84	79	76	55	0.0	1.3	6.3	248	34	29	740
5/12/2018	17:00	65	80	73	68	48	0.0	0.9	3.6	248	33	30	740
5/12/2018	17:15	52	63	59	55	45	0.0	1.3	4.5	248	33	30	740
5/12/2018	17:30	53	73	61	56	47	0.0	0.9	4.9	248	33	31	741
5/12/2018	17:45	50	66	57	53	45	0.0	0.4	3.1	248	33	31	741
5/12/2018	18:00	54	74	67	55	46	0.0	0.9	4.5	248	32	33	741
5/12/2018	18:15	52	64	58	55	47	0.0	0.9	4.9	248	31	34	741
5/12/2018	18:30	53	69	60	55	50	0.0	0.9	2.7	225	31	35	741
5/12/2018	18:45	55	81	64	52	45	0.0	0.9	3.1	248	30	36	742
5/12/2018	19:00	47	64	53	49	42	0.0	0.9	4.5	225	30	38	742
5/12/2018	19:15	46	64	53	48	41	0.0	0.9	4.0	248	29	40	742
5/12/2018	19:30	49	66	57	51	44	0.0	0.4	4.0	248	29	41	742
5/12/2018	19:45	49	62	56	52	44	0.0	0.9	3.1	225	28	43	742
5/12/2018	20:00	49	65	57	52	43	0.0	0.9	4.0	225	27	44	743
5/12/2018	20:15	49	59	55	53	44	0.0	0.9	4.5	225	27	46	743
5/12/2018	20:30	50	65	57	53	46	0.0	0.9	4.9	225	27	47	743
5/12/2018	20:45	51	66	58	54	45	0.0	1.3	5.8	248	26	48	743
5/12/2018	21:00	49	75	54	51	43	0.0	0.9	4.9	225	26	50	744
5/12/2018	21:15	50	65	56	52	46	0.0	0.9	4.5	225	25	51	744
5/12/2018	21:30	50	61	56	52	46	0.0	0.9	4.0	225	25	52	744
5/12/2018	21:45	46	58	53	49	41	0.0	0.9	3.1	225	25	52	744
5/12/2018	22:00	47	61	53	50	42	0.0	0.9	4.0	225	24	53	744
5/12/2018	22:15	50	70	57	52	42	0.0	0.9	4.5	225	24	53	744
5/12/2018	22:30	49	61	56	52	43	0.0	0.9	3.1	225	24	54	744
5/12/2018	22:45	50	63	57	53	43	0.0	0.9	4.0	248	24	54	744
5/12/2018	23:00	45	62	53	48	37	0.0	0.9	4.0	225	24	55	744
5/12/2018	23:15	44	60	53	47	37	0.0	0.4	3.1	225	23	57	745
5/12/2018	23:30	43	58	51	46	36	0.0	0.4	4.0	45	23	57	744
5/12/2018	23:45	43	61	52	47	35	0.0	0.4	5.8	135	23	58	744
6/12/2018	0:00	41	57	51	45	32	0.0	0.4	1.8	135	23	58	744
6/12/2018	0:15	41	56	50	46	31	0.0	0.4	4.0	135	22	59	744
6/12/2018	0:30	39	54	49	42	28	0.0	0.4	4.9	203	22	59	744
6/12/2018	0:45	40	58	51	43	30	0.0	0.4	3.6	135	22	59	744
6/12/2018	1:00	39	51	48	44	28	0.0	0.0	2.7	158	22	60	744
6/12/2018	1:15	36	57	45	42	25	0.0	0.0	1.8	248	21	61	744
6/12/2018	1:30	39	54	49	44	25	0.0	0.0	0.9	225	21	63	744
6/12/2018	1:45	39	55	48	44	25	0.0	0.0	0.4	225	21	63	744
6/12/2018	2:00	39	53	49	43	25	0.0	0.0	0.9	225	21	65	744
6/12/2018	2:15	38	55	48	42	25	0.0	0.0	1.3	225	20	66	744
6/12/2018	2:30	32	48	43	37	25	0.0	0.0	1.8	203	20	66	744
6/12/2018	2:45	39	56	51	44	25	0.0	0.0	0.4	158	20	66	744
6/12/2018	3:00	36	53	47	41	25	0.0	0.0	0.4	225	20	67	744
6/12/2018	3:15	36	49	46	41	25	0.0	0.0	0.9	225	20	68	744
6/12/2018	3:30	38	53	49	43	26	0.0	0.0	2.2	180	20	68	744
6/12/2018	3:45	34	59	45	37	24	0.0	0.0	0.4	203	20	68	744
6/12/2018	4:00	36	50	45	40	26	0.0	0.0	0.0	0	20	69	744
6/12/2018	4:15	54	69	62	57	46	0.0	0.0	1.3	203	19	69	744
6/12/2018	4:30	58	66	63	60	55	0.0	0.0	2.2	225	20	69	744
6/12/2018	4:45	55	67	62	58	47	0.0	0.0	2.2	203	20	67	744

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018	5:00	52	68	61	56	42	0.0	0.0	2.2	203	20	66	744
6/12/2018	5:15	54	71	65	56	39	0.0	0.0	2.2	45	20	64	745
6/12/2018	5:30	50	72	60	53	39	0.0	0.0	1.3	225	21	63	745
6/12/2018	5:45	53	75	63	55	41	0.0	0.0	2.2	248	21	61	745
6/12/2018	6:00	51	68	60	55	41	0.0	0.4	2.7	248	22	59	745
6/12/2018	6:15	53	75	62	56	41	0.0	0.4	2.7	225	23	56	745
6/12/2018	6:30	52	68	62	56	42	0.0	0.4	2.7	248	24	53	745
6/12/2018	6:45	51	71	60	54	43	0.0	0.4	2.7	248	25	50	745
6/12/2018	7:00	54	70	64	57	46	0.0	0.4	2.7	225	25	48	745
6/12/2018	7:15	54	71	64	58	45	0.0	0.9	4.0	225	25	48	745
6/12/2018	7:30	54	73	65	57	44	0.0	1.3	5.8	248	26	48	745
6/12/2018	7:45	55	72	66	59	45	0.0	0.9	4.0	225	26	47	745
6/12/2018	8:00	55	71	66	58	43	0.0	1.3	4.9	225	26	47	745
6/12/2018	8:15	53	75	65	55	44	0.0	0.9	4.5	225	27	47	745
6/12/2018	8:30	52	66	63	55	43	0.0	1.3	4.9	135	27	46	745
6/12/2018	8:45	54	73	63	57	45	0.0	0.9	4.0	135	28	45	745
6/12/2018	9:00	49	66	57	52	43	0.0	1.3	4.9	248	28	45	745
6/12/2018	9:15	53	73	64	56	42	0.0	1.3	4.5	158	28	44	745
6/12/2018	9:30	51	69	61	53	44	0.0	0.9	4.9	180	29	42	745
6/12/2018	9:45	58	76	66	63	44	0.0	0.9	4.5	248	30	41	745
6/12/2018	10:00	52	66	61	56	43	0.0	0.9	4.5	248	30	39	745
6/12/2018	10:15	56	67	63	60	46	0.0	0.9	3.1	248	31	37	745
6/12/2018	10:30	51	73	59	55	41	0.0	0.9	4.5	248	31	35	745
6/12/2018	10:45	51	64	59	55	44	0.0	1.3	4.5	135	31	36	745
6/12/2018	11:00	51	66	59	54	43	0.0	1.3	4.9	158	31	35	745
6/12/2018	11:15	59	69	66	62	46	0.0	0.9	3.1	248	32	35	744
6/12/2018	11:30	51	70	60	54	41	0.0	1.3	3.1	135	32	33	744
6/12/2018	11:45	54	72	63	58	44	0.0	1.3	3.1	135	33	33	744
6/12/2018	12:00	53	68	62	57	45	0.0	0.9	2.7	248	33	32	744
6/12/2018	12:15	50	71	58	52	43	0.0	1.3	4.0	158	33	31	744
6/12/2018	12:30	53	67	62	56	43	0.0	1.3	4.9	158	33	30	744
6/12/2018	12:45	51	68	60	55	40	0.0	0.9	4.5	248	34	29	744
6/12/2018	13:00	52	85	60	53	40	0.0	0.9	5.4	158	34	30	743
6/12/2018	13:15	50	71	57	52	41	0.0	1.8	4.0	135	34	29	743
6/12/2018	13:30	51	64	59	55	42	0.0	1.3	4.9	180	34	29	743
6/12/2018	13:45	50	66	59	53	43	0.0	0.9	4.0	135	35	27	743
6/12/2018	14:00	52	72	62	54	43	0.0	1.3	5.4	158	34	28	743
6/12/2018	14:15	48	62	56	52	42	0.0	1.3	4.0	135	34	28	742
6/12/2018	14:30	52	66	59	55	45	0.0	0.9	5.4	158	35	27	742
6/12/2018	14:45	51	70	58	55	44	0.0	1.3	4.5	135	34	27	742
6/12/2018	15:00	49	64	57	52	42	0.0	0.9	4.0	248	34	27	742
6/12/2018	15:15	54	74	66	56	44	0.0	1.3	3.6	248	34	28	742
6/12/2018	15:30	52	64	61	56	42	0.0	0.9	3.1	135	34	26	742
6/12/2018	15:45	51	65	59	54	43	0.0	0.9	3.1	225	34	27	742
6/12/2018	16:00	49	71	57	51	43	0.0	0.4	3.1	248	33	27	742
6/12/2018	16:15	50	69	59	53	42	0.0	0.4	4.5	248	34	27	742
6/12/2018	16:30	54	73	65	56	46	0.0	0.9	3.1	248	33	28	742
6/12/2018	16:45	53	80	60	55	45	0.0	0.9	4.5	203	33	29	742
6/12/2018	17:00	53	71	62	56	45	0.0	0.9	4.0	225	33	29	742
6/12/2018	17:15	51	71	58	53	45	0.0	0.9	4.9	225	32	29	742
6/12/2018	17:30	51	67	59	54	46	0.0	0.9	4.0	225	32	30	742
6/12/2018	17:45	51	66	59	54	45	0.0	0.9	4.0	248	32	30	743
6/12/2018	18:00	52	75	60	54	47	0.0	0.4	5.4	225	31	31	743
6/12/2018	18:15	52	74	60	54	47	0.0	0.4	2.7	225	31	32	743
6/12/2018	18:30	55	82	62	54	49	0.0	0.9	4.9	248	30	34	743
6/12/2018	18:45	50	67	57	52	46	0.0	0.9	4.0	225	29	36	743
6/12/2018	19:00	50	66	56	52	47	0.0	0.9	4.5	248	29	39	743
6/12/2018	19:15	50	62	56	53	46	0.0	0.4	2.7	248	28	41	744
6/12/2018	19:30	50	61	56	52	46	0.0	0.9	4.5	225	27	42	744
6/12/2018	19:45	50	60	56	52	47	0.0	1.3	5.4	225	27	43	744
6/12/2018	20:00	50	73	56	52	45	0.0	1.3	6.7	225	26	45	744
6/12/2018	20:15	49	60	56	51	44	0.0	0.9	4.5	248	26	45	744
6/12/2018	20:30	49	58	54	52	45	0.0	0.4	5.4	225	25	46	744
6/12/2018	20:45	46	65	52	48	43	0.0	0.9	4.5	225	25	48	745
6/12/2018	21:00	49	63	55	52	43	0.0	0.4	4.0	225	25	48	745
6/12/2018	21:15	49	63	56	52	43	0.0	0.9	4.9	248	24	49	745
6/12/2018	21:30	46	58	53	49	41	0.0	0.9	5.4	225	24	50	745
6/12/2018	21:45	46	65	54	50	39	0.0	0.9	4.0	225	24	52	745
6/12/2018	22:00	47	60	54	50	41	0.0	0.9	3.1	113	24	53	745
6/12/2018	22:15	47	59	53	49	42	0.0	0.9	5.8	135	23	54	745

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018	22:30	47	60	53	50	42	0.0	0.9	5.4	180	23	54	745
6/12/2018	22:45	46	56	52	48	42	0.0	0.4	4.0	180	23	55	745
6/12/2018	23:00	46	61	53	50	40	0.0	0.4	4.5	158	23	56	745
6/12/2018	23:15	43	56	50	46	36	0.0	0.4	2.2	180	22	56	745
6/12/2018	23:30	43	59	53	46	34	0.0	0.4	3.1	203	22	57	745
6/12/2018	23:45	41	53	49	44	32	0.0	0.4	2.7	225	22	58	745
7/12/2018	0:00	39	54	48	43	31	0.0	0.4	2.7	270	22	58	745
7/12/2018	0:15	38	51	46	42	29	0.0	0.4	2.2	180	21	59	745
7/12/2018	0:30	41	66	49	44	30	0.0	0.0	1.8	225	21	59	745
7/12/2018	0:45	42	62	50	46	30	0.0	0.0	3.1	203	21	60	745
7/12/2018	1:00	44	59	53	47	36	0.0	0.4	2.7	203	21	60	745
7/12/2018	1:15	41	66	48	44	33	0.0	0.4	1.8	45	21	60	745
7/12/2018	1:30	37	65	46	41	27	0.0	0.0	2.2	180	20	60	745
7/12/2018	1:45	40	56	51	43	28	0.0	0.0	2.2	225	20	60	745
7/12/2018	2:00	38	57	48	43	25	0.0	0.0	2.2	225	20	60	745
7/12/2018	2:15	37	56	48	41	26	0.0	0.0	2.2	203	20	60	745
7/12/2018	2:30	47	79	53	47	25	0.0	0.0	2.7	225	20	60	745
7/12/2018	2:45	35	52	45	39	23	0.0	0.0	1.8	248	20	61	745
7/12/2018	3:00	32	59	41	36	22	0.0	0.0	1.3	203	20	62	745
7/12/2018	3:15	32	51	44	35	23	0.0	0.0	0.4	248	19	63	745
7/12/2018	3:30	37	53	49	41	24	0.0	0.0	0.0	0	19	64	745
7/12/2018	3:45	34	56	46	36	24	0.0	0.0	0.9	248	18	65	745
7/12/2018	4:00	40	59	50	43	29	0.0	0.0	0.9	270	18	66	745
7/12/2018	4:15	53	60	57	56	45	0.0	0.0	0.9	225	18	66	745
7/12/2018	4:30	57	69	62	59	54	0.0	0.0	0.4	225	18	66	745
7/12/2018	4:45	54	72	62	57	44	0.0	0.0	0.9	225	18	66	745
7/12/2018	5:00	54	73	65	57	42	0.0	0.0	1.3	225	18	67	745
7/12/2018	5:15	53	69	63	56	41	0.0	0.0	1.3	225	18	67	745
7/12/2018	5:30	53	66	62	56	42	0.0	0.4	2.2	248	19	66	745
7/12/2018	5:45	53	73	64	57	42	0.0	0.9	2.2	248	19	64	745
7/12/2018	6:00	53	73	63	57	42	0.0	0.4	2.2	248	20	63	745
7/12/2018	6:15	54	75	63	58	43	0.0	0.9	3.1	45	21	60	746
7/12/2018	6:30	50	67	57	53	42	0.0	0.4	2.7	248	22	57	746
7/12/2018	6:45	51	71	61	55	42	0.0	0.4	3.1	248	23	56	746
7/12/2018	7:00	51	68	59	54	44	0.0	0.4	2.7	248	24	54	746
7/12/2018	7:15	51	67	61	54	43	0.0	0.9	2.7	225	25	53	746
7/12/2018	7:30	51	71	62	54	44	0.0	0.9	4.9	248	25	52	746
7/12/2018	7:45	52	74	60	56	43	0.0	0.9	4.5	225	26	50	746
7/12/2018	8:00	54	72	64	57	45	0.0	0.9	3.1	248	27	47	746
7/12/2018	8:15	51	65	58	54	45	0.0	0.9	3.1	203	27	47	746
7/12/2018	8:30	51	69	60	54	44	0.0	0.9	4.5	248	28	44	746
7/12/2018	8:45	54	75	62	57	46	0.0	0.9	4.5	248	28	40	746
7/12/2018	9:00	56	72	65	60	47	0.0	1.3	5.8	180	29	38	746
7/12/2018	9:15	55	68	63	59	47	0.0	1.3	4.0	248	29	37	746
7/12/2018	9:30	53	72	61	57	44	0.0	1.3	4.5	248	30	36	746
7/12/2018	9:45	52	71	60	56	43	0.0	1.8	5.8	135	29	36	746
7/12/2018	10:00	53	64	59	56	46	0.0	1.3	6.3	248	30	37	746
7/12/2018	10:15	50	66	58	53	40	0.0	1.3	5.4	248	30	38	746
7/12/2018	10:30	49	65	57	52	40	0.0	1.8	4.9	248	31	37	745
7/12/2018	10:45	53	73	62	56	44	0.0	1.3	7.2	248	31	37	745
7/12/2018	11:00	52	71	59	55	42	0.0	1.8	4.9	135	30	38	745
7/12/2018	11:15	52	67	61	56	43	0.0	1.8	4.5	135	30	38	745
7/12/2018	11:30	52	65	59	55	43	0.0	1.3	4.5	158	31	36	745
7/12/2018	11:45	50	72	59	54	42	0.0	1.3	5.4	135	31	35	745
7/12/2018	12:00	52	70	60	55	44	0.0	0.9	4.0	248	32	34	745
7/12/2018	12:15	52	63	59	55	45	0.0	1.3	8.5	135	32	33	745
7/12/2018	12:30	54	68	62	57	46	0.0	1.8	6.3	135	32	33	744
7/12/2018	12:45	54	78	62	56	43	0.0	1.3	4.5	225	33	33	744
7/12/2018	13:00	51	65	60	55	41	0.0	0.9	4.0	248	33	32	744
7/12/2018	13:15	51	68	59	54	44	0.0	0.9	5.8	248	33	33	744
7/12/2018	13:30	54	70	66	57	43	0.0	1.8	4.5	248	33	33	744
7/12/2018	13:45	52	64	60	56	44	0.0	1.3	4.0	248	33	32	744
7/12/2018	14:00	53	66	60	57	47	0.0	1.3	6.7	248	33	31	743
7/12/2018	14:15	55	71	63	57	48	0.0	1.3	5.8	248	33	32	743
7/12/2018	14:30	55	79	62	57	43	0.0	1.3	4.0	225	33	32	743
7/12/2018	14:45	52	67	62	55	44	0.0	0.9	5.4	225	33	32	743
7/12/2018	15:00	53	66	60	56	45	0.0	1.3	5.8	135	32	31	743
7/12/2018	15:15	52	70	59	54	45	0.0	1.3	4.5	248	32	31	743
7/12/2018	15:30	51	73	57	54	45	0.0	0.9	5.8	248	32	31	743
7/12/2018	15:45	51	67	58	54	45	0.0	1.3	4.0	293	32	32	743

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018	16:00	52	67	61	55	45	0.0	0.9	3.6	225	32	32	743
7/12/2018	16:15	51	65	59	55	45	0.0	0.9	4.5	225	32	32	742
7/12/2018	16:30	51	63	59	54	44	0.0	0.9	4.5	225	32	33	743
7/12/2018	16:45	54	80	64	56	47	0.0	1.3	4.9	248	31	34	742
7/12/2018	17:00	51	70	58	53	45	0.0	1.3	4.9	225	31	35	743
7/12/2018	17:15	51	76	59	54	45	0.0	0.9	4.5	225	31	35	743
7/12/2018	17:30	56	78	65	58	50	0.0	1.3	4.9	135	30	37	743
7/12/2018	17:45	54	75	61	57	49	0.0	0.9	5.8	248	30	38	743
7/12/2018	18:00	51	71	58	53	47	0.0	0.9	4.5	225	29	40	743
7/12/2018	18:15	51	76	58	53	47	0.0	0.9	3.1	225	28	41	744
7/12/2018	18:30	51	61	56	53	47	0.0	0.9	4.5	248	28	41	744
7/12/2018	18:45	48	63	55	50	43	0.0	0.9	4.5	248	27	41	744
7/12/2018	19:00	47	59	52	49	44	0.0	0.4	2.7	225	27	42	744
7/12/2018	19:15	46	59	51	48	43	0.0	0.4	2.7	225	27	44	744
7/12/2018	19:30	46	67	52	48	42	0.0	0.4	3.1	225	26	45	744
7/12/2018	19:45	45	61	54	48	39	0.0	0.9	3.1	225	26	45	745
7/12/2018	20:00	46	61	52	48	42	0.0	0.4	3.1	248	26	45	745
7/12/2018	20:15	46	62	53	49	41	0.0	0.4	3.1	225	26	47	745
7/12/2018	20:30	47	59	53	50	42	0.0	0.4	3.1	180	25	48	745
7/12/2018	20:45	45	58	52	47	40	0.0	0.4	4.0	248	25	49	745
7/12/2018	21:00	45	60	51	47	40	0.0	0.4	2.2	225	25	50	745
7/12/2018	21:15	44	57	50	47	39	0.0	0.4	2.2	225	24	53	745
7/12/2018	21:30	42	60	49	44	39	0.0	0.4	1.8	225	24	53	745
7/12/2018	21:45	44	58	50	46	40	0.0	0.4	2.7	248	24	53	746
7/12/2018	22:00	43	59	50	46	37	0.0	0.4	2.7	248	24	55	746
7/12/2018	22:15	43	57	52	47	35	0.0	0.4	2.7	248	23	55	746
7/12/2018	22:30	44	56	51	49	31	0.0	0.4	3.1	225	23	56	746
7/12/2018	22:45	46	56	52	50	32	0.0	0.0	1.3	225	23	57	746
7/12/2018	23:00	45	56	51	49	34	0.0	0.0	1.8	248	23	58	746
7/12/2018	23:15	41	54	49	44	33	0.0	0.4	4.5	248	22	59	746
7/12/2018	23:30	41	59	51	44	34	0.0	0.4	4.9	248	22	59	746
7/12/2018	23:45	40	56	48	43	35	0.0	0.4	4.0	248	22	60	746
8/12/2018	0:00	40	54	49	44	29	0.0	0.4	2.7	225	22	60	746
8/12/2018	0:15	39	54	48	44	28	0.0	0.0	1.8	203	22	61	746
8/12/2018	0:30	53	82	59	43	27	0.0	0.0	1.3	225	21	62	745
8/12/2018	0:45	38	56	46	38	34	0.0	0.0	1.3	180	21	64	745
8/12/2018	1:00	39	54	48	44	27	0.0	0.0	0.9	225	21	65	745
8/12/2018	1:15	37	52	48	40	26	0.0	0.0	0.9	203	21	65	745
8/12/2018	1:30	35	53	46	38	25	0.0	0.0	0.9	248	20	66	745
8/12/2018	1:45	40	53	50	45	25	0.0	0.0	1.8	248	20	67	745
8/12/2018	2:00	39	56	49	43	25	0.0	0.0	0.9	135	20	67	745
8/12/2018	2:15	40	55	49	44	26	0.0	0.0	0.4	270	20	67	745
8/12/2018	2:30	36	51	48	39	23	0.0	0.0	0.0	0	19	68	745
8/12/2018	2:45	35	51	46	38	22	0.0	0.0	0.4	270	19	68	745
8/12/2018	3:00	37	58	51	37	23	0.0	0.0	0.9	270	19	68	745
8/12/2018	3:15	35	54	50	33	22	0.0	0.0	0.0	0	19	70	745
8/12/2018	3:30	33	50	47	34	22	0.0	0.0	0.0	0	19	71	745
8/12/2018	3:45	34	59	46	30	21	0.0	0.0	0.0	0	19	70	745
8/12/2018	4:00	43	66	55	43	24	0.0	0.0	0.0	0	18	71	745
8/12/2018	4:15	52	60	57	55	44	0.0	0.0	0.0	0	18	71	745
8/12/2018	4:30	57	71	63	59	55	0.0	0.0	0.4	270	18	71	745
8/12/2018	4:45	58	73	67	61	51	0.0	0.0	0.0	0	18	72	745
8/12/2018	5:00	57	75	67	60	44	0.0	0.0	0.0	0	18	73	746
8/12/2018	5:15	52	72	64	55	38	0.0	0.0	0.0	0	18	72	746
8/12/2018	5:30	52	72	63	55	39	0.0	0.0	0.0	0	18	72	746
8/12/2018	5:45	52	72	64	55	39	0.0	0.0	0.4	270	19	69	746
8/12/2018	6:00	49	67	59	53	38	0.0	0.0	0.4	270	20	67	746
8/12/2018	6:15	57	71	67	61	41	0.0	0.0	1.3	270	22	63	746
8/12/2018	6:30	55	73	67	59	41	0.0	0.4	2.7	248	23	60	746
8/12/2018	6:45	50	65	59	53	40	0.0	0.4	4.0	248	23	58	746
8/12/2018	7:00	53	72	66	54	42	0.0	0.9	3.1	248	24	55	746
8/12/2018	7:15	57	74	69	59	42	0.0	0.4	2.2	225	25	54	746
8/12/2018	7:30	50	65	58	53	44	0.0	0.9	4.5	225	25	53	746
8/12/2018	7:45	52	73	59	55	45	0.0	0.9	4.5	248	26	52	746
8/12/2018	8:00	51	68	61	54	43	0.0	0.9	4.0	248	27	48	746
8/12/2018	8:15	52	74	62	55	44	0.0	1.3	4.5	248	27	48	746
8/12/2018	8:30	51	74	59	55	42	0.0	1.3	4.5	135	27	49	746
8/12/2018	8:45	51	64	59	55	42	0.0	0.9	2.7	135	27	48	746
8/12/2018	9:00	52	66	61	56	44	0.0	1.8	5.4	158	28	45	746
8/12/2018	9:15	52	65	60	55	43	0.0	1.3	4.9	113	29	43	746

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	9:30	50	64	58	54	42	0.0	1.8	5.8	135	29	42	745
8/12/2018	9:45	50	66	57	53	43	0.0	1.8	5.4	135	29	41	745
8/12/2018	10:00	52	63	59	55	46	0.0	1.8	7.2	135	30	40	745
8/12/2018	10:15	51	71	60	54	42	0.0	1.8	4.9	135	30	39	745
8/12/2018	10:30	51	63	59	55	44	0.0	1.3	4.9	225	31	38	745
8/12/2018	10:45	49	60	56	53	42	0.0	1.3	4.5	225	31	37	745
8/12/2018	11:00	49	63	56	53	41	0.0	1.3	4.5	248	32	36	745
8/12/2018	11:15	48	63	55	52	41	0.0	1.3	6.7	135	32	37	744
8/12/2018	11:30	51	71	59	54	43	0.0	1.8	5.4	135	31	36	744
8/12/2018	11:45	46	63	56	50	38	0.0	1.3	5.4	135	32	35	744
8/12/2018	12:00	49	74	57	51	41	0.0	0.9	3.6	135	33	34	744
8/12/2018	12:15	49	61	57	53	42	0.0	1.8	4.5	135	33	34	744
8/12/2018	12:30	52	74	62	53	41	0.0	1.3	4.5	135	33	33	743
8/12/2018	12:45	50	65	58	53	43	0.0	1.3	5.4	135	34	32	743
8/12/2018	13:00	51	77	58	54	41	0.0	1.8	7.6	135	34	31	743
8/12/2018	13:15	48	72	56	50	40	0.0	1.3	4.5	158	34	31	743
8/12/2018	13:30	50	62	58	54	42	0.0	1.8	5.4	158	34	30	743
8/12/2018	13:45	49	64	58	52	42	0.0	1.8	4.5	158	34	31	743
8/12/2018	14:00	54	75	66	55	43	0.0	1.3	4.5	135	35	32	742
8/12/2018	14:15	49	66	58	52	42	0.0	0.9	3.1	248	34	32	742
8/12/2018	14:30	54	77	66	54	43	0.0	0.9	2.7	248	34	31	742
8/12/2018	14:45	52	69	63	55	42	0.0	0.4	2.2	315	35	31	742
8/12/2018	15:00	48	74	57	50	41	0.0	0.9	4.9	248	34	32	742
8/12/2018	15:15	51	71	60	54	43	0.0	0.4	4.0	270	34	32	742
8/12/2018	15:30	53	68	60	57	46	0.0	0.4	2.7	158	34	32	742
8/12/2018	15:45	50	64	58	54	42	0.0	1.3	3.1	248	34	33	742
8/12/2018	16:00	54	73	64	56	46	0.0	0.4	4.0	248	33	34	742
8/12/2018	16:15	50	65	58	54	42	0.0	0.9	3.6	248	34	34	742
8/12/2018	16:30	52	68	60	55	45	0.0	0.4	3.1	248	33	34	741
8/12/2018	16:45	53	69	62	56	44	0.0	0.4	2.2	135	34	34	741
8/12/2018	17:00	52	70	60	56	43	0.0	0.9	4.0	135	34	33	742
8/12/2018	17:15	58	82	71	58	44	0.0	1.8	5.4	158	33	36	742
8/12/2018	17:30	52	76	61	54	44	0.0	1.3	4.5	135	32	38	742
8/12/2018	17:45	56	76	69	57	47	0.0	1.8	4.9	135	32	39	742
8/12/2018	18:00	53	68	61	56	47	0.0	2.7	6.7	135	31	40	742
8/12/2018	18:15	51	71	59	54	46	0.0	1.8	4.5	135	31	41	743
8/12/2018	18:30	52	76	57	53	48	0.0	1.8	5.4	135	30	42	743
8/12/2018	18:45	51	78	57	53	47	0.0	1.8	5.8	135	30	43	743
8/12/2018	19:00	49	70	57	51	46	0.0	1.8	7.2	135	29	45	743
8/12/2018	19:15	48	68	56	50	43	0.0	1.8	5.8	135	28	46	744
8/12/2018	19:30	47	61	53	48	43	0.0	2.2	7.6	135	28	48	744
8/12/2018	19:45	47	66	55	49	44	0.0	1.8	5.8	135	27	48	744
8/12/2018	20:00	45	59	52	48	42	0.0	2.2	6.3	135	27	49	744
8/12/2018	20:15	47	66	54	50	41	0.0	1.8	5.4	135	27	49	744
8/12/2018	20:30	48	64	55	50	42	0.0	1.3	4.9	135	26	49	744
8/12/2018	20:45	48	69	56	50	42	0.0	1.8	4.9	135	26	50	745
8/12/2018	21:00	47	71	54	48	42	0.0	1.8	5.4	135	26	51	745
8/12/2018	21:15	45	61	53	48	39	0.0	0.9	5.4	158	26	51	745
8/12/2018	21:30	44	61	49	47	39	0.0	0.9	5.4	135	25	51	745
8/12/2018	21:45	44	58	53	47	38	0.0	1.3	4.5	135	25	52	745
8/12/2018	22:00	42	56	51	46	36	0.0	0.4	2.7	180	25	53	745
8/12/2018	22:15	41	56	50	44	34	0.0	0.4	2.7	135	25	54	745
8/12/2018	22:30	41	59	50	44	34	0.0	0.4	2.7	135	24	55	744
8/12/2018	22:45	39	55	47	41	34	0.0	0.4	3.1	158	24	56	744
8/12/2018	23:00	45	58	54	49	37	0.0	0.4	4.9	113	24	57	744
8/12/2018	23:15	39	52	46	42	35	0.0	0.9	4.0	135	24	58	744
8/12/2018	23:30	41	52	47	44	36	0.0	0.9	4.0	135	23	59	744
8/12/2018	23:45	42	63	52	44	35	0.0	1.3	4.5	135	23	59	744
9/12/2018	0:00	38	50	44	41	33	0.0	1.8	4.9	135	23	60	744
9/12/2018	0:15	42	62	54	43	33	0.0	1.3	3.1	135	23	61	744
9/12/2018	0:30	39	53	46	41	32	0.0	1.8	4.5	135	23	62	744
9/12/2018	0:45	38	55	48	40	27	0.0	1.3	3.1	135	23	62	744
9/12/2018	1:00	38	55	49	40	29	0.0	0.4	4.9	135	22	62	744
9/12/2018	1:15	35	55	43	38	27	0.0	0.0	1.3	180	22	63	744
9/12/2018	1:30	36	52	47	38	29	0.0	0.0	0.9	293	22	64	744
9/12/2018	1:45	38	54	48	41	29	0.0	0.0	0.4	180	21	65	744
9/12/2018	2:00	38	57	49	41	27	0.0	0.0	2.7	158	21	65	743
9/12/2018	2:15	50	80	49	41	25	0.0	0.4	2.2	113	21	65	743
9/12/2018	2:30	34	53	40	38	23	0.0	0.0	1.8	225	21	66	743
9/12/2018	2:45	33	52	40	37	23	0.0	0.0	0.9	158	21	67	743

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	3:00	32	50	39	37	24	0.0	0.0	0.0	0	20	68	743
9/12/2018	3:15	34	52	46	38	23	0.0	0.0	0.4	203	20	69	743
9/12/2018	3:30	38	52	48	41	24	0.0	0.0	0.0	0	20	71	743
9/12/2018	3:45	31	45	39	36	22	0.0	0.0	0.0	0	20	71	743
9/12/2018	4:00	39	55	49	42	28	0.0	0.0	0.0	0	19	72	744
9/12/2018	4:15	52	59	57	55	37	0.0	0.0	0.0	0	19	72	744
9/12/2018	4:30	57	70	63	59	54	0.0	0.0	0.0	0	19	73	744
9/12/2018	4:45	56	73	66	59	46	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:00	53	72	61	57	40	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:15	52	70	63	55	38	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:30	55	73	67	57	42	0.0	0.0	1.3	203	19	73	744
9/12/2018	5:45	51	73	61	54	39	0.0	0.0	1.3	225	20	71	744
9/12/2018	6:00	53	75	66	55	35	0.0	0.4	1.8	248	21	69	744
9/12/2018	6:15	54	74	67	56	37	0.0	0.4	2.2	248	22	65	744
9/12/2018	6:30	53	79	64	55	38	0.0	0.4	2.7	248	23	62	744
9/12/2018	6:45	49	63	57	53	41	0.0	0.4	2.7	248	24	59	744
9/12/2018	7:00	52	67	62	55	43	0.0	0.4	2.2	248	25	56	744
9/12/2018	7:15	54	72	66	56	41	0.0	0.4	2.7	248	25	55	744
9/12/2018	7:30	54	75	66	55	40	0.0	0.4	2.2	248	27	53	744
9/12/2018	7:45	57	73	68	61	42	0.0	0.4	2.2	203	27	51	744
9/12/2018	8:00	50	69	60	54	41	0.0	0.4	2.2	225	28	50	744
9/12/2018	8:15	52	66	62	56	42	0.0	0.9	4.5	135	27	52	744
9/12/2018	8:30	55	72	65	58	42	0.0	0.9	3.1	158	28	49	744
9/12/2018	8:45	52	65	60	55	44	0.0	0.9	2.7	135	29	48	744
9/12/2018	9:00	50	62	58	54	40	0.0	0.4	3.1	203	30	46	744
9/12/2018	9:15	52	65	60	56	44	0.0	0.9	3.1	135	30	45	744
9/12/2018	9:30	53	71	63	56	43	0.0	0.9	4.0	135	31	44	744
9/12/2018	9:45	49	68	57	52	41	0.0	0.9	4.9	180	31	42	744
9/12/2018	10:00	48	64	58	50	40	0.0	0.9	4.5	135	32	40	743
9/12/2018	10:15	48	66	57	52	41	0.0	0.9	4.5	158	32	40	743
9/12/2018	10:30	51	73	59	53	43	0.0	0.9	3.1	135	33	38	743
9/12/2018	10:45	51	65	60	54	42	0.0	0.4	2.7	135	34	36	743
9/12/2018	11:00	48	63	57	52	40	0.0	1.8	4.9	135	33	37	743
9/12/2018	11:15	51	65	60	54	41	0.0	0.9	2.7	180	34	36	743
9/12/2018	11:30	50	64	60	53	41	0.0	0.4	2.7	248	35	34	742
9/12/2018	11:45	52	73	64	54	41	0.0	1.3	4.0	248	35	34	742
9/12/2018	12:00	54	72	67	56	40	0.0	0.9	6.3	135	35	33	742
9/12/2018	12:15	55	72	68	57	42	0.0	0.9	3.1	135	35	32	742
9/12/2018	12:30	58	73	69	61	45	0.0	0.4	3.1	113	36	32	742
9/12/2018	12:45	50	71	59	52	42	0.0	0.9	3.1	225	36	32	742
9/12/2018	13:00	51	64	59	55	44	0.0	1.3	4.9	135	36	31	741
9/12/2018	13:15	54	72	63	58	44	0.0	0.9	4.9	248	36	30	741
9/12/2018	13:30	52	68	62	56	43	0.0	0.9	4.5	135	36	30	741
9/12/2018	13:45	51	65	60	55	42	0.0	1.3	3.1	135	36	30	741
9/12/2018	14:00	52	63	59	55	45	0.0	0.9	6.3	248	36	30	741
9/12/2018	14:15	53	80	61	56	42	0.0	0.9	3.1	315	36	29	740
9/12/2018	14:30	51	67	61	54	42	0.0	0.9	2.7	135	36	30	740
9/12/2018	14:45	50	65	59	54	42	0.0	0.9	4.5	248	37	29	740
9/12/2018	15:00	50	67	60	52	42	0.0	0.9	3.1	135	36	30	740
9/12/2018	15:15	55	74	64	59	45	0.0	0.9	5.8	270	37	28	740
9/12/2018	15:30	52	70	64	54	44	0.0	0.9	3.1	135	37	27	740
9/12/2018	15:45	54	79	64	56	43	0.0	0.9	2.7	315	35	29	739
9/12/2018	16:00	55	65	62	61	45	0.0	0.4	4.0	180	36	28	739
9/12/2018	16:15	61	71	64	62	51	0.0	0.4	2.2	248	36	27	739
9/12/2018	16:30	52	73	62	55	45	0.0	0.9	4.9	203	36	27	739
9/12/2018	16:45	52	72	60	55	46	0.0	0.4	3.1	248	36	27	739
9/12/2018	17:00	52	71	60	55	45	0.0	0.4	2.7	248	36	28	739
9/12/2018	17:15	51	71	60	53	44	0.0	0.9	4.5	135	35	28	739
9/12/2018	17:30	53	76	63	55	47	0.0	0.9	3.1	135	35	29	739
9/12/2018	17:45	51	69	57	53	47	0.0	0.9	4.5	135	35	30	740
9/12/2018	18:00	53	66	60	56	48	0.0	1.8	5.4	135	34	30	740
9/12/2018	18:15	53	72	59	55	49	0.0	1.3	4.0	135	34	30	740
9/12/2018	18:30	52	77	58	53	48	0.0	1.8	4.9	135	33	31	740
9/12/2018	18:45	50	70	60	52	46	0.0	1.8	4.5	135	33	31	740
9/12/2018	19:00	47	67	52	49	45	0.0	1.3	3.1	135	33	32	740
9/12/2018	19:15	47	59	53	49	44	0.0	1.3	3.6	135	32	32	740
9/12/2018	19:30	48	63	54	52	43	0.0	0.9	2.7	135	32	33	740
9/12/2018	19:45	48	59	54	52	41	0.0	0.9	2.2	135	32	34	741
9/12/2018	20:00	52	81	54	52	41	0.0	0.9	2.7	135	31	35	741
9/12/2018	20:15	48	58	55	52	40	0.0	1.3	2.7	135	31	36	741

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	20:30	44	59	52	46	40	0.0	0.9	3.1	135	31	36	741
9/12/2018	20:45	47	61	54	52	41	0.0	1.3	4.5	135	30	38	741
9/12/2018	21:00	45	58	53	48	41	0.0	1.8	4.5	135	30	41	741
9/12/2018	21:15	46	59	52	48	42	0.0	1.8	4.9	135	29	43	742
9/12/2018	21:30	46	55	51	48	42	0.0	1.8	4.5	135	29	47	742
9/12/2018	21:45	46	65	52	48	43	0.0	1.8	4.9	135	28	50	742
9/12/2018	22:00	44	55	51	45	41	0.0	1.8	4.5	135	28	52	742
9/12/2018	22:15	44	59	51	46	41	0.0	1.3	3.1	135	27	53	742
9/12/2018	22:30	44	55	51	45	40	0.0	1.3	4.5	135	27	54	743
9/12/2018	22:45	44	55	48	46	41	0.0	0.9	2.7	135	27	55	743
9/12/2018	23:00	43	55	48	46	40	0.0	1.3	4.5	135	26	56	743
9/12/2018	23:15	43	54	47	45	39	0.0	1.3	4.5	135	26	57	743
9/12/2018	23:30	43	54	49	46	40	0.0	0.9	2.2	135	26	59	743
9/12/2018	23:45	47	73	55	45	40	0.0	0.4	3.1	135	26	59	743
10/12/2018	0:00	44	69	50	46	40	0.0	0.4	2.7	135	25	60	743
10/12/2018	0:15	43	48	46	45	40	0.0	0.4	2.2	158	25	61	743
10/12/2018	0:30	43	50	47	45	40	0.0	0.9	3.1	135	25	62	742
10/12/2018	0:45	43	59	50	46	39	0.0	0.9	2.7	135	25	63	742
10/12/2018	1:00	42	55	48	45	33	0.0	0.9	2.7	135	24	64	742
10/12/2018	1:15	45	75	55	45	33	0.0	0.4	2.2	158	24	65	742
10/12/2018	1:30	42	57	47	44	39	0.0	0.4	1.8	135	24	65	742
10/12/2018	1:45	45	73	48	44	38	0.0	0.4	1.8	135	24	66	742
10/12/2018	2:00	40	55	47	44	28	0.0	0.4	1.8	135	23	67	742
10/12/2018	2:15	41	53	47	45	33	0.0	0.4	4.0	135	23	68	742
10/12/2018	2:30	42	54	48	45	32	0.0	0.9	2.2	135	23	67	742
10/12/2018	2:45	39	47	45	42	29	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:00	40	53	48	43	26	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:15	40	52	47	44	26	0.0	0.4	2.2	158	23	69	742
10/12/2018	3:30	39	50	45	43	24	0.0	0.4	2.2	158	22	69	742
10/12/2018	3:45	38	53	47	42	25	0.0	0.0	1.3	158	22	70	742
10/12/2018	4:00	40	53	48	44	27	0.0	0.0	1.3	158	22	71	742
10/12/2018	4:15	54	69	62	56	47	0.0	0.0	1.8	135	22	71	742
10/12/2018	4:30	56	69	60	58	54	0.0	0.4	1.8	135	22	71	742
10/12/2018	4:45	55	69	66	58	45	0.0	0.0	0.9	135	22	72	742
10/12/2018	5:00	51	69	63	54	40	0.0	0.0	0.9	180	21	73	742
10/12/2018	5:15	51	72	62	54	39	0.0	0.0	2.2	158	21	73	742
10/12/2018	5:30	53	72	64	56	41	0.0	0.0	1.3	158	21	73	742
10/12/2018	5:45	52	72	63	56	41	0.0	0.4	2.2	135	22	71	742
10/12/2018	6:00	53	73	65	56	39	0.0	0.4	2.2	135	23	69	742
10/12/2018	6:15	55	79	65	57	44	0.0	0.9	4.0	135	24	66	742
10/12/2018	6:30	57	76	71	58	42	0.0	1.3	4.5	135	24	64	743
10/12/2018	6:45	51	68	61	54	41	0.0	1.3	3.1	135	25	63	743
10/12/2018	7:00	53	72	66	54	41	0.0	1.3	3.1	135	26	61	743
10/12/2018	7:15	54	71	66	57	41	0.0	1.3	4.5	135	26	60	743
10/12/2018	7:30	52	72	64	53	42	0.0	0.9	2.7	135	27	58	743
10/12/2018	7:45	56	73	69	57	41	0.0	0.9	2.7	135	27	56	743
10/12/2018	8:00	58	73	69	62	41	0.0	0.9	2.7	135	28	54	743
10/12/2018	8:15	53	71	66	55	41	0.0	0.9	3.1	158	28	53	743
10/12/2018	8:30	58	75	69	62	41	0.0	0.4	2.7	203	29	51	743
10/12/2018	8:45	55	73	67	56	39	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:00	51	71	61	53	41	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:15	52	67	60	55	42	0.0	1.3	4.5	158	31	46	742
10/12/2018	9:30	53	68	62	56	42	0.0	1.3	4.0	135	31	45	742
10/12/2018	9:45	49	62	56	53	42	0.0	1.3	3.1	135	31	43	742
10/12/2018	10:00	51	75	61	54	41	0.0	0.9	3.1	180	32	41	742
10/12/2018	10:15	56	82	69	55	40	0.0	0.4	3.1	270	33	40	742
10/12/2018	10:30	51	65	61	55	41	0.0	0.9	4.0	135	33	39	742
10/12/2018	10:45	51	68	62	53	41	0.0	0.9	3.6	180	33	36	742
10/12/2018	11:00	53	69	61	57	43	0.0	0.4	4.9	135	34	34	742
10/12/2018	11:15	51	67	61	56	40	0.0	1.3	4.5	135	34	33	742
10/12/2018	11:30	50	69	61	53	42	0.0	0.4	3.1	68	34	34	741
10/12/2018	11:45	50	67	58	53	42	0.0	0.9	2.7	135	35	33	741
10/12/2018	12:00	50	64	57	54	42	0.0	0.4	1.8	180	35	32	741
10/12/2018	12:15	52	68	59	55	46	0.0	0.9	3.1	248	36	30	741
10/12/2018	12:30	56	80	70	55	42	0.0	0.9	2.7	248	36	31	741
10/12/2018	12:45	48	63	55	51	43	0.0	0.9	3.1	293	35	32	740
10/12/2018	13:00	49	68	58	51	42	0.0	0.9	3.6	158	35	31	740
10/12/2018	13:15	64	84	75	68	43	0.0	0.9	3.1	225	36	31	740
10/12/2018	13:30	72	88	85	61	43	0.0	0.4	2.2	158	36	30	740
10/12/2018	13:45	50	66	60	54	42	0.0	0.9	3.1	135	37	30	739

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	14:00	52	71	62	56	43	0.0	0.9	4.5	248	36	30	739
10/12/2018	14:15	51	73	60	53	43	0.0	0.4	2.2	225	37	29	739
10/12/2018	14:30	49	61	56	53	44	0.0	0.9	2.7	135	38	28	739
10/12/2018	14:45	49	69	57	52	42	0.0	0.9	2.7	248	37	29	739
10/12/2018	15:00	51	73	58	54	45	0.0	0.9	3.1	248	37	29	738
10/12/2018	15:15	51	69	62	54	43	0.0	0.4	2.7	158	37	28	738
10/12/2018	15:30	51	70	60	53	44	0.0	0.9	3.1	113	37	28	738
10/12/2018	15:45	55	80	62	58	45	0.0	0.4	2.2	315	37	27	738
10/12/2018	16:00	54	76	63	57	46	0.0	0.4	1.8	225	37	27	738
10/12/2018	16:15	49	68	57	52	43	0.0	0.4	2.7	270	37	27	738
10/12/2018	16:30	50	69	60	53	44	0.0	1.3	3.1	293	36	27	738
10/12/2018	16:45	57	83	65	59	46	0.0	0.4	1.8	248	37	26	738
10/12/2018	17:00	52	68	60	54	47	0.0	1.3	2.7	113	36	26	738
10/12/2018	17:15	52	71	60	55	48	0.0	0.4	2.2	113	36	26	738
10/12/2018	17:30	52	69	60	55	47	0.0	0.0	1.8	203	36	26	738
10/12/2018	17:45	52	72	61	54	45	0.0	0.4	3.1	225	36	26	738
10/12/2018	18:00	52	66	62	55	46	0.0	0.0	0.9	135	36	27	739
10/12/2018	18:15	53	69	63	55	48	0.0	0.0	2.2	135	36	27	739
10/12/2018	18:30	53	72	60	54	50	0.0	0.0	1.3	158	35	27	739
10/12/2018	18:45	49	60	54	51	45	0.0	0.0	0.4	135	35	28	739
10/12/2018	19:00	48	65	56	50	45	0.0	0.0	0.0	0	34	29	739
10/12/2018	19:15	46	55	51	48	44	0.0	0.0	0.0	0	33	30	739
10/12/2018	19:30	46	56	51	48	44	0.0	0.0	0.0	0	33	31	739
10/12/2018	19:45	46	61	53	48	43	0.0	0.0	0.4	135	33	31	739
10/12/2018	20:00	47	64	56	49	40	0.0	0.4	1.8	135	33	31	739
10/12/2018	20:15	45	58	52	47	40	0.0	0.4	1.8	135	33	32	740
10/12/2018	20:30	46	72	54	47	39	0.0	0.4	2.2	135	32	33	740
10/12/2018	20:45	45	64	51	47	42	0.0	0.4	2.2	158	32	36	740
10/12/2018	21:00	46	58	53	48	42	0.0	0.4	2.2	158	32	38	740
10/12/2018	21:15	45	62	52	47	42	0.0	0.9	3.1	135	31	39	740
10/12/2018	21:30	43	61	49	45	38	0.0	0.4	2.2	135	31	40	741
10/12/2018	21:45	45	55	52	48	42	0.0	0.9	2.7	158	31	40	741
10/12/2018	22:00	41	58	50	44	30	0.0	0.9	3.1	135	31	41	741
10/12/2018	22:15	40	58	51	42	30	0.0	0.9	2.7	158	30	42	741
10/12/2018	22:30	40	54	50	45	31	0.0	0.9	3.1	135	30	43	741
10/12/2018	22:45	43	60	51	47	36	0.0	1.3	4.9	135	30	45	741
10/12/2018	23:00	43	69	51	45	38	0.0	1.8	6.7	135	29	47	741
10/12/2018	23:15	43	58	51	46	36	0.0	1.8	5.8	135	29	49	741
10/12/2018	23:30	44	54	51	47	37	0.0	1.8	5.8	135	28	51	741
10/12/2018	23:45	42	53	49	45	36	0.0	1.8	5.8	135	28	53	741
11/12/2018	0:00	41	60	49	44	37	0.0	2.2	5.8	135	28	55	741
11/12/2018	0:15	41	56	47	44	36	0.0	1.8	4.9	135	27	56	741
11/12/2018	0:30	40	52	46	44	34	0.0	1.8	4.9	135	27	57	741
11/12/2018	0:45	41	56	52	44	31	0.0	1.3	4.5	135	27	58	741
11/12/2018	1:00	40	52	49	45	32	0.0	0.9	2.7	135	26	59	741
11/12/2018	1:15	42	57	49	46	32	0.0	0.9	2.7	135	26	60	741
11/12/2018	1:30	42	52	49	47	32	0.0	0.4	2.2	135	26	61	741
11/12/2018	1:45	40	68	47	43	31	0.0	0.4	2.2	135	26	62	741
11/12/2018	2:00	42	53	48	45	32	0.0	0.4	3.1	135	25	63	741
11/12/2018	2:15	42	52	48	47	32	0.0	1.3	2.7	135	25	63	741
11/12/2018	2:30	44	54	51	48	35	0.0	0.9	2.2	135	25	64	741
11/12/2018	2:45	43	51	48	47	32	0.0	0.9	2.7	135	25	65	741
11/12/2018	3:00	44	56	50	48	33	0.0	1.3	2.7	135	25	65	741
11/12/2018	3:15	42	49	48	47	31	0.0	0.9	2.7	135	24	66	741
11/12/2018	3:30	44	58	53	47	33	0.0	0.9	2.2	135	24	67	741
11/12/2018	3:45	42	68	47	45	33	0.0	0.9	4.0	158	24	67	741
11/12/2018	4:00	41	53	47	45	33	0.0	1.3	3.1	135	24	67	741
11/12/2018	4:15	51	59	57	55	38	0.0	0.9	2.7	135	23	68	741
11/12/2018	4:30	57	77	61	59	53	0.0	1.3	4.0	135	23	68	741
11/12/2018	4:45	56	69	65	59	47	0.0	1.3	3.6	135	23	68	741
11/12/2018	5:00	54	73	64	58	42	0.0	1.3	3.1	135	23	68	741
11/12/2018	5:15	51	70	61	55	42	0.0	0.9	3.1	135	23	68	741
11/12/2018	5:30	54	74	63	57	44	0.0	0.4	2.2	135	23	67	742
11/12/2018	5:45	50	66	59	54	41	0.0	0.9	2.2	158	24	67	742
11/12/2018	6:00	54	75	63	57	44	0.0	1.3	4.5	135	24	66	742
11/12/2018	6:15	52	71	62	56	43	0.0	1.3	4.5	135	25	64	742
11/12/2018	6:30	57	80	69	56	44	0.0	1.3	3.1	135	25	62	742
11/12/2018	6:45	53	72	62	56	44	0.0	0.9	2.7	135	26	58	743
11/12/2018	7:00	53	71	62	57	44	0.0	0.9	4.0	135	27	56	742
11/12/2018	7:15	55	71	66	57	45	0.0	1.3	4.0	135	27	54	742

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	7:30	57	75	68	60	46	0.0	0.9	4.0	135	28	52	742
11/12/2018	7:45	59	76	70	63	47	0.0	0.9	4.0	135	28	53	742
11/12/2018	8:00	57	73	68	59	49	0.0	0.9	3.1	135	27	54	742
11/12/2018	8:15	57	76	68	59	48	0.0	0.4	2.2	135	29	51	742
11/12/2018	8:30	60	74	70	64	48	0.0	0.9	4.0	135	30	49	742
11/12/2018	8:45	54	73	65	56	45	0.0	0.9	3.1	158	31	46	742
11/12/2018	9:00	54	69	63	57	45	0.0	0.9	3.6	158	31	46	742
11/12/2018	9:15	55	71	67	57	47	0.0	0.9	3.1	135	32	45	742
11/12/2018	9:30	54	69	62	57	47	0.0	0.9	2.7	135	32	42	742
11/12/2018	9:45	54	66	61	57	46	0.0	0.9	4.0	135	32	42	742
11/12/2018	10:00	54	69	61	57	47	0.0	0.9	2.7	225	33	42	742
11/12/2018	10:15	53	66	63	57	44	0.0	0.9	2.7	248	33	40	742
11/12/2018	10:30	52	65	60	55	44	0.0	0.9	3.1	293	32	41	742
11/12/2018	10:45	55	72	66	57	46	0.0	0.9	3.1	293	32	41	742
11/12/2018	11:00	59	73	70	64	45	0.0	0.9	5.4	248	33	40	742
11/12/2018	11:15	53	72	63	55	46	0.0	1.3	4.5	248	33	40	742
11/12/2018	11:30	49	66	57	52	44	0.0	0.9	2.7	293	33	39	742
11/12/2018	11:45	52	68	62	55	44	0.0	0.9	3.1	248	34	36	741
11/12/2018	12:00	50	62	57	53	43	0.0	0.9	3.1	248	35	36	741
11/12/2018	12:15	50	66	58	54	43	0.0	0.9	3.1	315	35	36	741
11/12/2018	12:30	50	63	57	53	44	0.0	0.9	3.1	248	35	35	740
11/12/2018	12:45	50	63	58	54	44	0.0	0.4	3.1	225	35	34	740
11/12/2018	13:00	49	68	59	52	42	0.0	0.9	9.8	203	35	33	740
11/12/2018	13:15	57	79	69	58	47	0.0	0.4	2.2	248	36	31	740
11/12/2018	13:30	55	73	67	57	45	0.0	0.9	2.7	248	35	32	740
11/12/2018	13:45	55	74	67	55	44	0.0	0.9	4.0	248	35	32	740
11/12/2018	14:00	58	77	69	61	44	0.0	0.4	4.0	158	35	32	739
11/12/2018	14:15	57	82	71	56	46	0.0	0.4	2.2	270	35	32	739
11/12/2018	14:30	55	71	65	58	45	0.0	0.4	2.7	225	37	29	739
11/12/2018	14:45	50	65	60	54	42	0.0	0.9	3.1	135	37	29	739
11/12/2018	15:00	56	73	66	59	45	0.0	0.9	3.1	225	37	29	739
11/12/2018	15:15	51	71	60	55	44	0.0	0.4	2.2	135	37	28	739
11/12/2018	15:30	55	73	66	58	46	0.0	0.4	2.7	248	36	29	738
11/12/2018	15:45	52	70	59	55	45	0.0	0.4	2.7	248	36	28	738
11/12/2018	16:00	53	66	62	57	43	0.0	0.4	2.7	135	36	29	738
11/12/2018	16:15	52	70	62	55	44	0.0	0.4	2.2	158	36	29	738
11/12/2018	16:30	54	69	63	57	44	0.0	0.0	1.8	248	36	30	738
11/12/2018	16:45	56	71	64	60	46	0.0	0.4	1.8	270	36	30	738
11/12/2018	17:00	53	79	61	55	45	0.0	0.4	1.8	248	36	30	738
11/12/2018	17:15	53	78	62	55	46	0.0	0.9	2.7	135	36	30	738
11/12/2018	17:30	50	64	59	53	44	0.0	0.4	2.2	158	36	30	738
11/12/2018	17:45	54	74	67	55	42	0.0	0.4	2.7	135	36	30	738
11/12/2018	18:00	53	64	60	57	45	0.0	0.0	1.3	248	35	31	738
11/12/2018	18:15	52	69	60	54	45	0.0	0.0	0.9	248	35	31	738
11/12/2018	18:30	55	78	65	57	48	0.0	0.0	0.4	248	35	31	738
11/12/2018	18:45	48	62	55	51	41	0.0	0.0	1.8	203	34	31	738
11/12/2018	19:00	45	58	51	47	41	0.0	0.0	3.1	203	34	31	739
11/12/2018	19:15	51	79	59	48	42	0.0	0.0	1.8	0	34	33	739
11/12/2018	19:30	47	63	54	49	42	0.0	0.4	2.7	225	33	35	739
11/12/2018	19:45	47	65	54	50	44	0.0	0.4	3.6	225	33	37	739
11/12/2018	20:00	45	69	50	47	43	0.0	0.9	3.6	225	32	38	739
11/12/2018	20:15	46	59	53	48	43	0.0	0.9	3.1	225	31	39	739
11/12/2018	20:30	47	62	53	49	43	0.0	0.4	3.1	248	31	41	740
11/12/2018	20:45	45	60	53	48	40	0.0	0.9	4.5	225	30	42	740
11/12/2018	21:00	46	75	53	48	36	0.0	0.4	4.5	248	30	43	740
11/12/2018	21:15	44	57	53	48	35	0.0	0.4	3.1	225	30	44	740
11/12/2018	21:30	45	66	52	48	40	0.0	0.4	4.5	203	29	45	740
11/12/2018	21:45	45	59	52	48	40	0.0	0.9	5.4	135	29	46	740
11/12/2018	22:00	46	60	54	49	39	0.0	1.3	6.3	135	29	48	740
11/12/2018	22:15	43	59	51	46	35	0.0	1.8	4.9	135	29	49	740
11/12/2018	22:30	42	58	47	45	36	0.0	1.3	3.1	135	29	50	741
11/12/2018	22:45	44	62	51	47	39	0.0	2.2	5.8	135	28	50	741
11/12/2018	23:00	44	62	51	47	39	0.0	2.2	5.4	135	28	51	741
11/12/2018	23:15	46	56	53	48	41	0.0	2.7	6.3	135	28	53	741
11/12/2018	23:30	45	58	53	48	38	0.0	2.2	6.7	135	27	55	741
11/12/2018	23:45	43	61	52	46	36	0.0	1.8	5.4	135	27	56	741
12/12/2018	0:00	43	55	51	46	36	0.0	1.8	5.4	135	27	57	741
12/12/2018	0:15	42	54	49	45	35	0.0	1.8	4.5	135	26	58	740
12/12/2018	0:30	48	80	51	47	38	0.0	1.8	4.0	135	26	58	740
12/12/2018	0:45	44	59	53	47	37	0.0	2.2	4.9	135	26	59	740

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018	1:00	42	55	49	46	34	0.0	1.3	3.6	135	26	59	740
12/12/2018	1:15	43	54	51	46	36	0.0	1.3	3.1	158	26	60	740
12/12/2018	1:30	43	56	51	46	35	0.0	1.3	3.1	135	25	61	740
12/12/2018	1:45	43	56	49	46	35	0.0	1.3	3.6	135	25	62	740
12/12/2018	2:00	43	55	50	46	36	0.0	0.9	4.9	135	25	64	740
12/12/2018	2:15	41	56	48	44	34	0.0	1.3	4.9	135	25	65	740
12/12/2018	2:30	40	59	50	42	34	0.0	0.9	2.7	135	25	65	740
12/12/2018	2:45	41	57	52	43	33	0.0	1.3	4.0	158	24	66	740
12/12/2018	3:00	37	50	42	40	32	0.0	1.3	4.5	135	24	66	740
12/12/2018	3:15	41	58	50	43	34	0.0	1.3	3.1	135	24	67	740
12/12/2018	3:30	42	53	50	45	34	0.0	1.3	3.1	135	24	68	740
12/12/2018	3:45	42	54	50	45	34	0.0	1.3	3.1	135	24	68	740
12/12/2018	4:00	41	54	50	45	32	0.0	1.3	3.1	135	24	69	739
12/12/2018	4:15	49	58	56	53	33	0.0	0.9	2.7	135	23	69	740
12/12/2018	4:30	58	70	63	60	55	0.0	0.4	2.2	158	23	69	740
12/12/2018	4:45	57	73	66	60	46	0.0	0.4	1.8	135	23	69	740
12/12/2018	5:00	53	71	62	56	43	0.0	0.0	1.8	158	23	70	740
12/12/2018	5:15	52	72	61	55	43	0.0	0.4	2.2	135	23	70	740
12/12/2018	5:30	53	70	62	56	42	0.0	0.4	1.8	135	23	70	740
12/12/2018	5:45	53	71	64	56	43	0.0	0.4	2.7	135	24	70	740
12/12/2018	6:00	54	70	65	57	44	0.0	0.4	2.2	135	24	69	740
12/12/2018	6:15	52	68	62	55	43	0.0	0.9	3.1	135	24	68	741
12/12/2018	6:30	54	80	64	56	42	0.0	1.3	4.0	135	25	67	741
12/12/2018	6:45	54	72	64	56	44	0.0	1.3	4.0	158	25	66	741
12/12/2018	7:00	53	74	63	56	44	0.0	1.3	4.9	135	26	64	741
12/12/2018	7:15	52	72	61	55	44	0.0	1.3	4.5	158	26	62	741
12/12/2018	7:30	51	68	60	54	42	0.0	1.3	4.0	135	27	60	741
12/12/2018	7:45	53	68	61	56	45	0.0	0.9	4.0	135	27	58	741
12/12/2018	8:00	55	71	66	58	43	0.0	1.3	4.0	135	28	56	741
12/12/2018	8:15	53	70	62	57	41	0.0	0.4	3.1	180	29	52	741
12/12/2018	8:30	50	64	59	54	41	0.0	1.3	3.1	135	29	53	741
12/12/2018	8:45	56	71	66	61	44	0.0	0.9	4.5	135	30	50	741
12/12/2018	9:00	54	68	64	58	44	0.0	0.9	3.1	135	31	48	740
12/12/2018	9:15	57	71	66	61	46	0.0	0.9	4.9	158	31	46	740
12/12/2018	9:30	52	64	61	56	44	0.0	0.9	4.5	135	32	44	740
12/12/2018	9:45	53	65	60	56	44	0.0	0.9	4.0	135	32	43	740
12/12/2018	10:00	52	69	62	56	44	0.2	0.9	3.1	135	34	39	739
12/12/2018	10:15	58	81	67	59	49	0.0	0.0	0.0	0	34	39	739
12/12/2018	10:30	53	67	63	55	45	0.0	0.0	0.0	0	35	36	739

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_04

From	Wednesday 5/12/2018 12:15	Meas. Type	Free Field	Package	Border to Gowrie
To	Wednesday 12/12/2018 11:15	Mic. Height (m)	1.8	Address	71 Kaboom Street
Instrument Type	Larson Davis 831	Weather Station	No	Suburb	Yelarbon
Instrument Serial #	3339	Operator	JR	Land Use	Residential
Inst. Cal. Date	13/7/2017	Sample Int.	15 min	Latitude	28°34'27.36"S
Pre Calibration	94	RP Lot#	12Y5699	Longitude	150°45'28.73"E
Post Calibration	94				

Daytime		Evening		Night	
RBL	**32.4 dB(A)**	RBL	**33.8 dB(A)**	RBL	**23.0 dB(A)**
ABLs Day (Mon-Fri 7am - 6 pm)		ABLs Evening (Mon-Fri 6 pm - 10 pm)		ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)	
ABLs Day (Sat 8 am - 1 pm)		ABLs Evening (Sat 1 pm - 10 pm)		ABLs Night (Fri 6pm - 8am)	
		ABLs Evening (Sun 7 am - 10 pm)			
Wednesday 5/12/2018	34.7 dB(A)	Wednesday 5/12/2018	39.1 dB(A)	Wednesday 5/12/2018	24.4 dB(A)
Thursday 6/12/2018	32 dB(A)	Thursday 6/12/2018	37.2 dB(A)	Thursday 6/12/2018	<23 dB(A)
Friday 7/12/2018	35.5 dB(A)	Friday 7/12/2018	33.8 dB(A)	Friday 7/12/2018	<23 dB(A)
Saturday 8/12/2018	34.3 dB(A)	Saturday 8/12/2018	31.0 dB(A)	Saturday 8/12/2018	<23 dB(A)
		Sunday 9/12/2018	30.2 dB(A)	Sunday 9/12/2018	<23 dB(A)
Monday 10/12/2018	31.3 dB(A)	Monday 10/12/2018	30.5 dB(A)	Monday 10/12/2018	26.9 dB(A)
Tuesday 11/12/2018	31 dB(A)	Tuesday 11/12/2018	34.9 dB(A)	Tuesday 11/12/2018	29.7 dB(A)
Wednesday 12/12/2018	32.4 dB(A)				

Site Diagram - Diagram

Future Freight
Integrating Community, Environment and Engineering

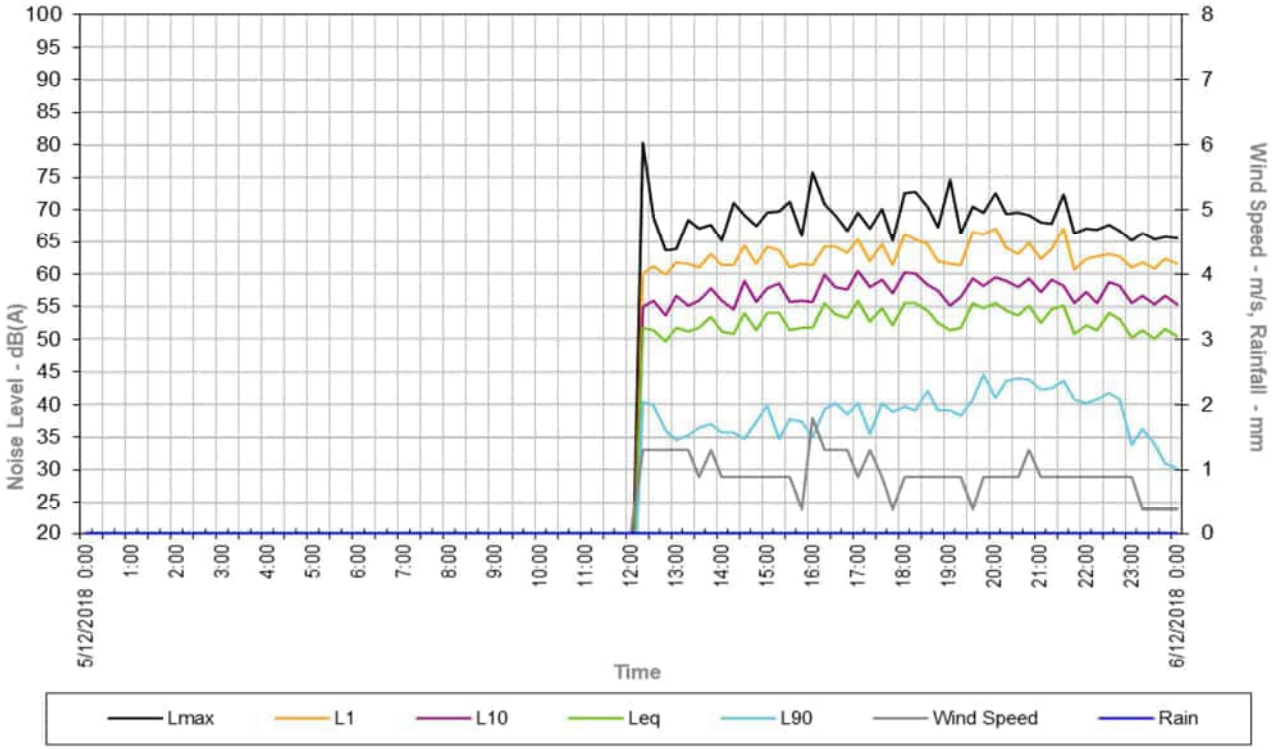
Site Attended Measurements Summary

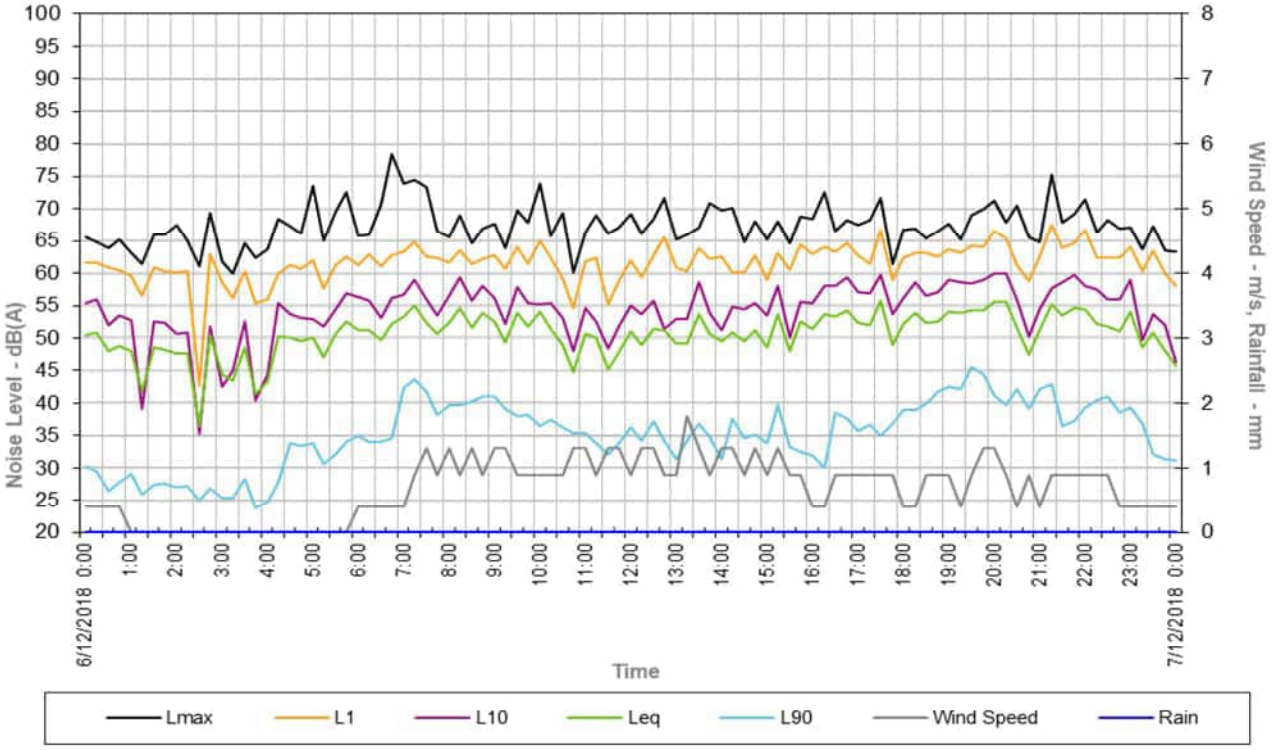
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
5/12/2018	12:00 PM	Attended	77.3	57.9	52.8	34.3	49.5	Pass	12:15 PM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Attended measurement started before noise logger. Background is moderate wind noise in trees at 43 dB(A). Residents talking in shed just audible. Occasional buzzing insects at 45 dB(A). Truck pass bys at 56-77 dB(A).							
12/12/2018	11:15 AM	Attended	79.3	62.5	51.9	31.5	52.2	Pass	11:30 AM
		Logged	78.8	63.5	54.3	34.1	51.9		
		Difference	0.5	-1.0	-2.4	-2.6	0.3		
Comments	Background is road traffic noise from main road. Truck pass bys at 60 dB(A). Resident coughing inside house 57 dB(A). Car pass bys at 46 dB(A). Insect noise at 30-32 dB(A). Plane at 37 dB(A). Truck engine breaking at 64-79 dB(A).								

Photos

Site Noise and Weather Graphical Analysis

71 Kaboom Street

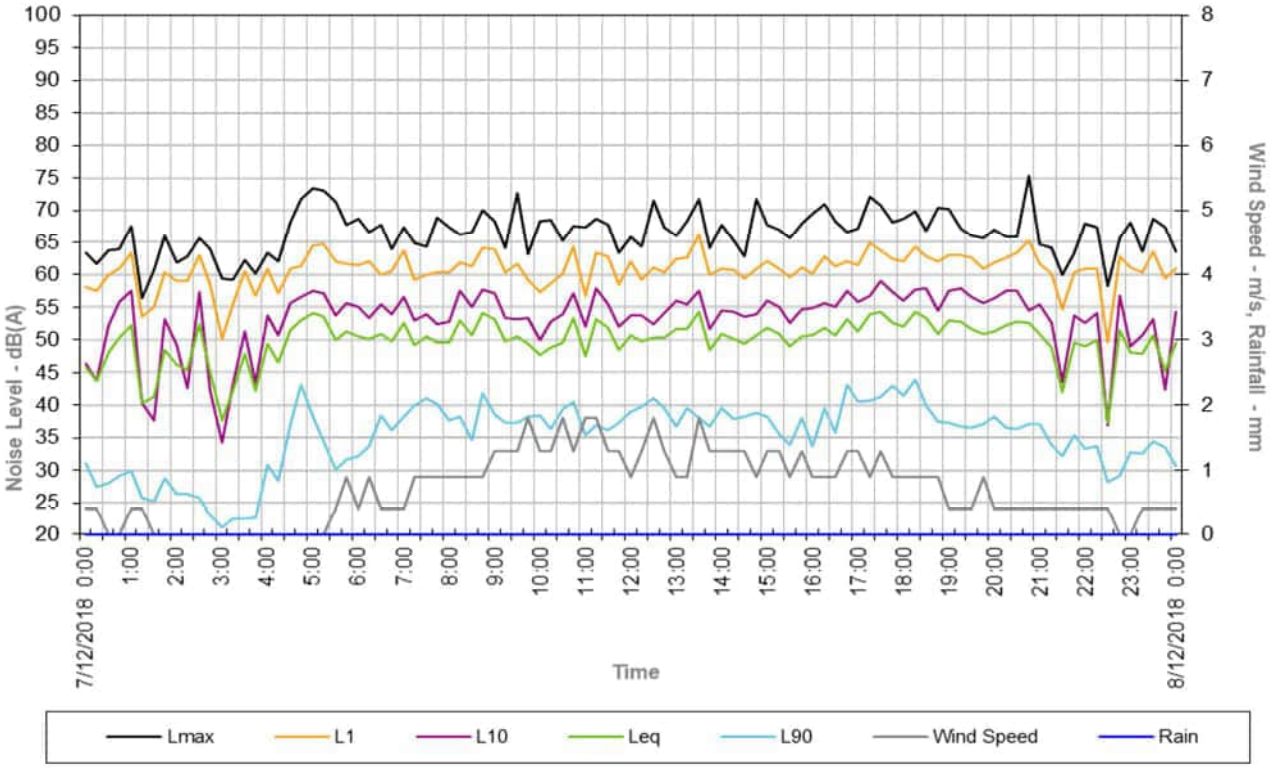


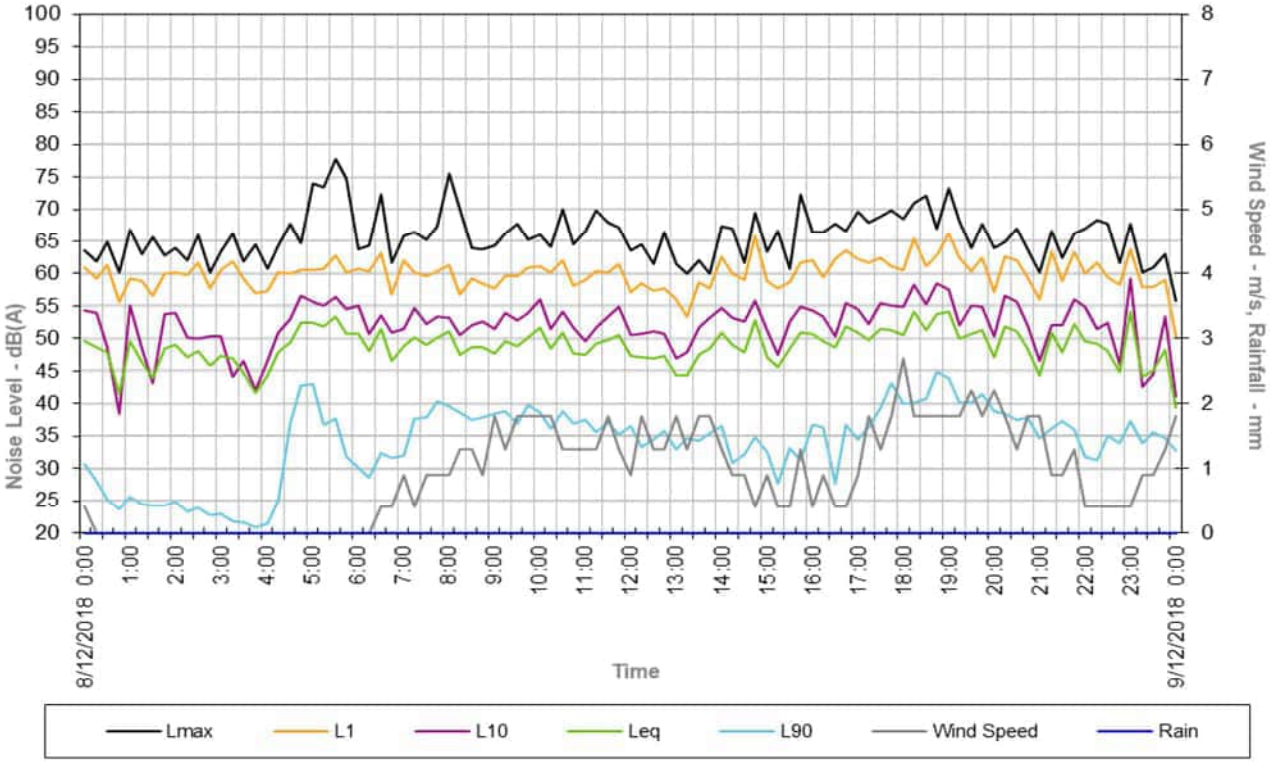


Future Freight
Integrating Community, Environment and Engineering

Site Noise and Weather Graphical Analysis

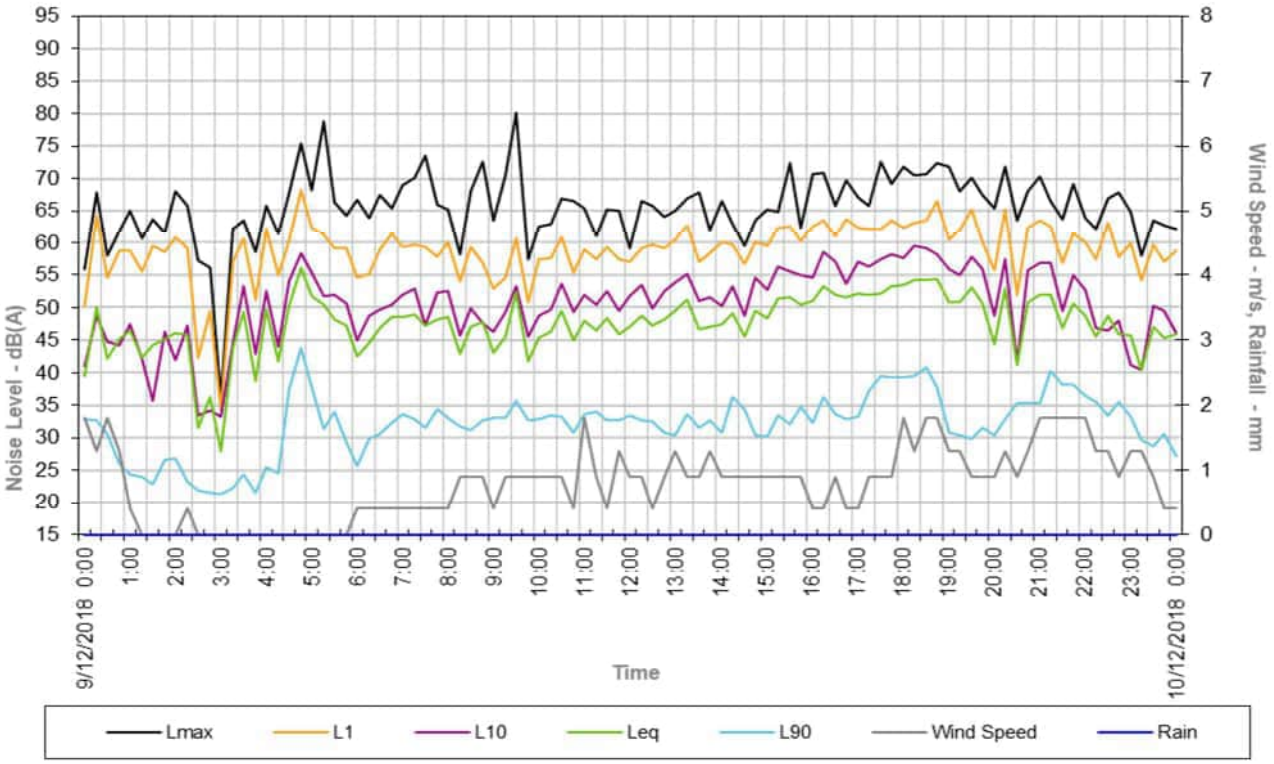
71 Kaboom Street

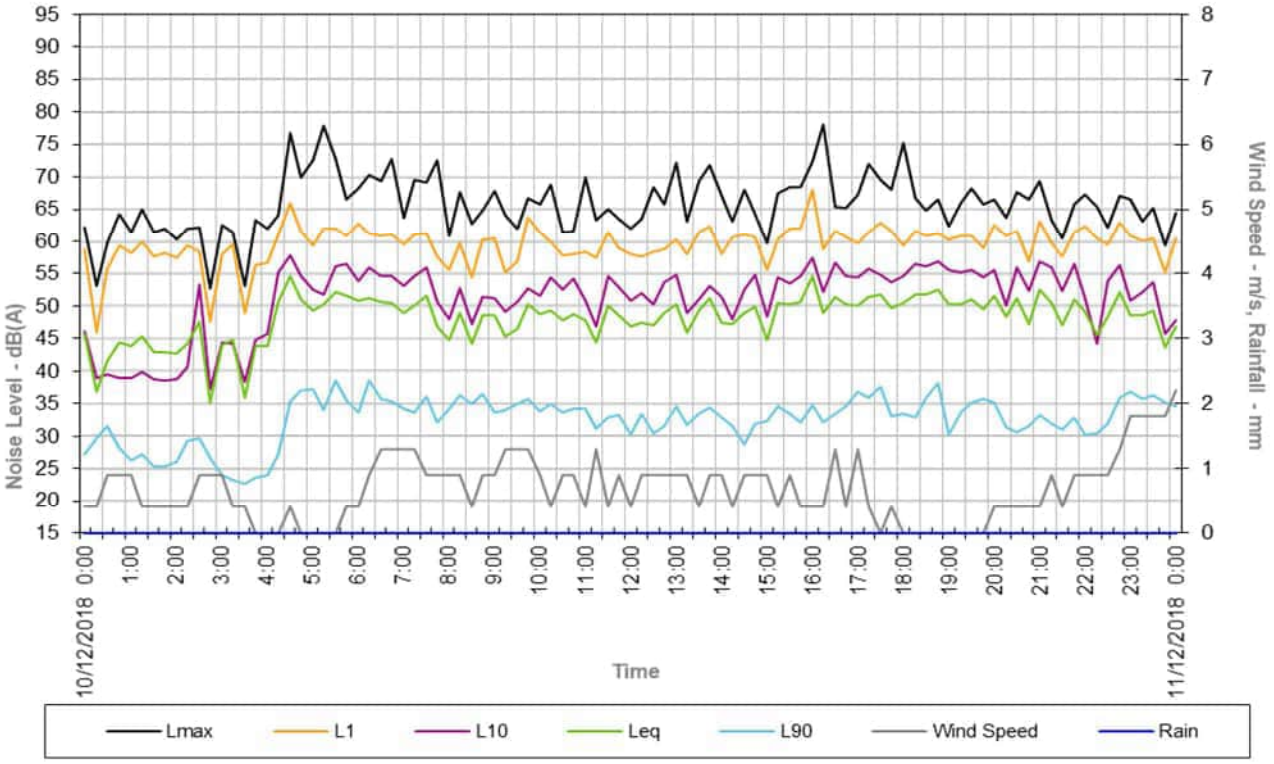




Site Noise and Weather Graphical Analysis

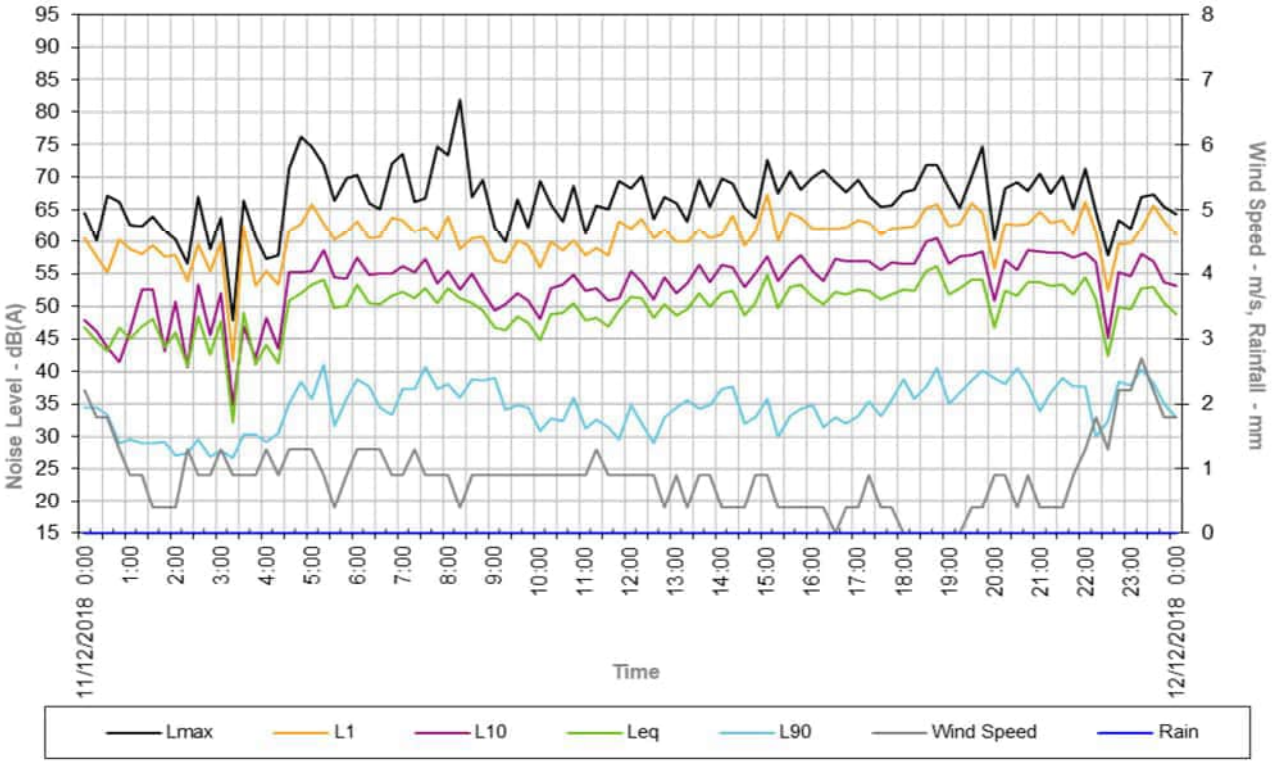
71 Kaboom Street

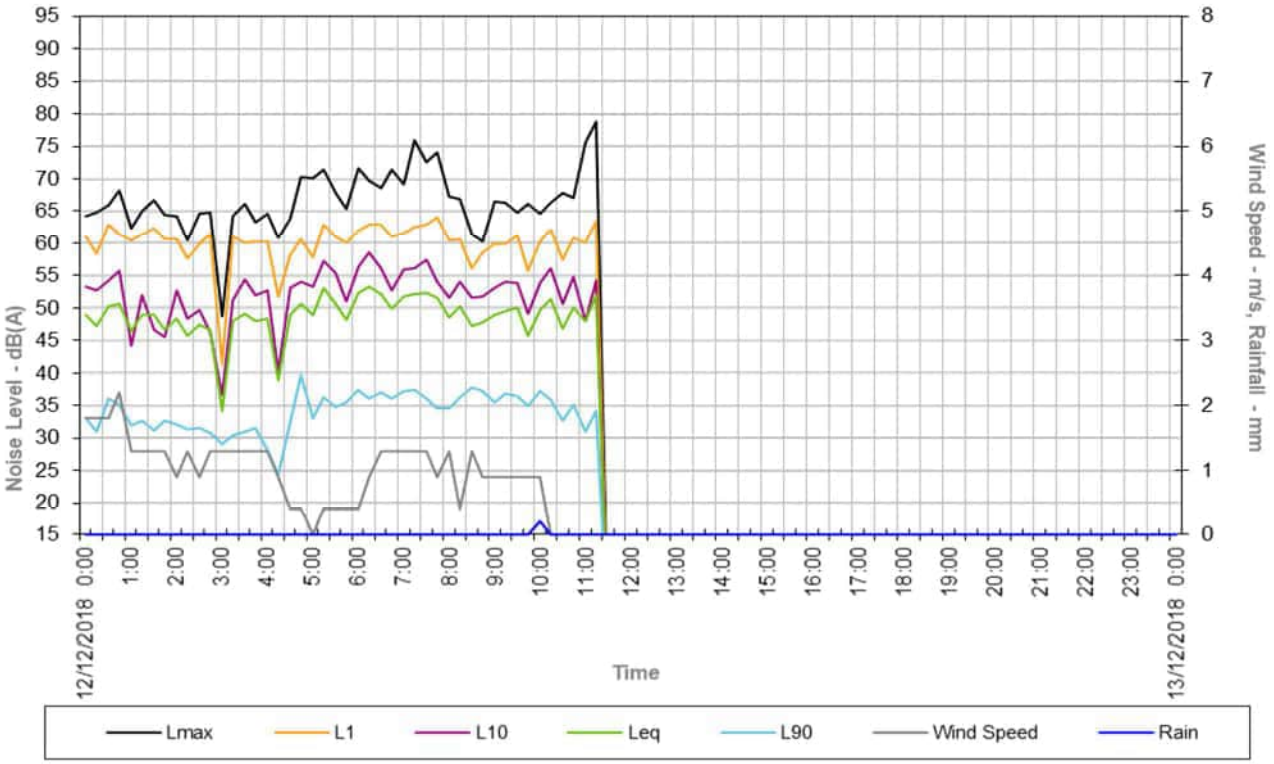




Site Noise and Weather Graphical Analysis

71 Kaboom Street





Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
5/12/2018	12:15	52	80	60	55	41	0.0	1.3	6.3	248	35	31	742
5/12/2018	12:30	51	69	61	56	40	0.0	1.3	4.9	248	35	32	742
5/12/2018	12:45	50	64	60	54	36	0.0	1.3	5.4	135	34	32	741
5/12/2018	13:00	52	64	62	57	35	0.0	1.3	4.9	248	34	32	741
5/12/2018	13:15	51	69	62	55	35	0.0	1.3	5.4	270	35	32	741
5/12/2018	13:30	52	67	61	56	37	0.0	0.9	4.0	248	35	29	741
5/12/2018	13:45	53	68	63	58	37	0.0	1.3	4.0	248	36	30	741
5/12/2018	14:00	51	65	62	56	36	0.0	0.9	2.7	248	36	30	741
5/12/2018	14:15	51	71	62	55	36	0.0	0.9	4.5	135	35	30	741
5/12/2018	14:30	54	69	64	59	35	0.0	0.9	4.5	248	35	29	741
5/12/2018	14:45	51	67	62	56	37	0.0	0.9	4.9	248	35	29	741
5/12/2018	15:00	54	70	64	58	40	0.0	0.9	4.0	248	34	30	740
5/12/2018	15:15	54	70	64	59	35	0.0	0.9	3.6	248	35	28	740
5/12/2018	15:30	51	71	61	56	38	0.0	0.9	4.9	248	34	30	740
5/12/2018	15:45	52	66	62	56	38	0.0	0.4	4.0	225	34	29	740
5/12/2018	16:00	52	76	62	56	35	0.0	1.8	5.8	248	34	30	740
5/12/2018	16:15	55	71	64	60	39	0.0	1.3	5.4	248	33	31	740
5/12/2018	16:30	54	69	64	58	40	0.0	1.3	4.5	270	34	29	740
5/12/2018	16:45	53	67	63	58	39	0.0	1.3	6.3	248	34	29	740
5/12/2018	17:00	56	70	65	61	40	0.0	0.9	3.6	248	33	30	740
5/12/2018	17:15	53	67	62	58	36	0.0	1.3	4.5	248	33	30	740
5/12/2018	17:30	55	70	65	59	40	0.0	0.9	4.9	248	33	31	741
5/12/2018	17:45	52	65	61	57	39	0.0	0.4	3.1	248	33	31	741
5/12/2018	18:00	55	73	66	60	40	0.0	0.9	4.5	248	32	33	741
5/12/2018	18:15	56	73	65	60	39	0.0	0.9	4.9	248	31	34	741
5/12/2018	18:30	54	70	65	58	42	0.0	0.9	2.7	225	31	35	741
5/12/2018	18:45	53	67	62	58	39	0.0	0.9	3.1	248	30	36	742
5/12/2018	19:00	51	75	62	55	39	0.0	0.9	4.5	225	30	38	742
5/12/2018	19:15	52	66	62	57	38	0.0	0.9	4.0	248	29	40	742
5/12/2018	19:30	56	70	67	59	41	0.0	0.4	4.0	248	29	41	742
5/12/2018	19:45	55	70	66	58	45	0.0	0.9	3.1	225	28	43	742
5/12/2018	20:00	56	73	67	60	41	0.0	0.9	4.0	225	27	44	743
5/12/2018	20:15	55	69	64	59	44	0.0	0.9	4.5	225	27	46	743
5/12/2018	20:30	54	70	63	58	44	0.0	0.9	4.9	225	27	47	743
5/12/2018	20:45	55	69	65	59	44	0.0	1.3	5.8	248	26	48	743
5/12/2018	21:00	53	68	62	57	42	0.0	0.9	4.9	225	26	50	744
5/12/2018	21:15	55	68	64	59	43	0.0	0.9	4.5	225	25	51	744
5/12/2018	21:30	55	72	67	58	44	0.0	0.9	4.0	225	25	52	744
5/12/2018	21:45	51	66	61	56	41	0.0	0.9	3.1	225	25	52	744
5/12/2018	22:00	52	67	62	57	40	0.0	0.9	4.0	225	24	53	744
5/12/2018	22:15	51	67	63	56	41	0.0	0.9	4.5	225	24	53	744
5/12/2018	22:30	54	68	63	59	42	0.0	0.9	3.1	225	24	54	744
5/12/2018	22:45	53	67	63	58	41	0.0	0.9	4.0	248	24	54	744
5/12/2018	23:00	50	65	61	56	34	0.0	0.9	4.0	225	24	55	744
5/12/2018	23:15	51	66	62	57	36	0.0	0.4	3.1	225	23	57	745
5/12/2018	23:30	50	65	61	55	34	0.0	0.4	4.0	45	23	57	744
5/12/2018	23:45	52	66	62	57	31	0.0	0.4	5.8	135	23	58	744
6/12/2018	0:00	50	66	62	55	30	0.0	0.4	1.8	135	23	58	744
6/12/2018	0:15	51	65	62	56	29	0.0	0.4	4.0	135	22	59	744
6/12/2018	0:30	48	64	61	52	26	0.0	0.4	4.9	203	22	59	744
6/12/2018	0:45	49	65	61	53	28	0.0	0.4	3.6	135	22	59	744
6/12/2018	1:00	48	63	60	53	29	0.0	0.0	2.7	158	22	60	744
6/12/2018	1:15	42	61	57	39	26	0.0	0.0	1.8	248	21	61	744
6/12/2018	1:30	49	66	61	53	28	0.0	0.0	0.9	225	21	63	744
6/12/2018	1:45	48	66	60	52	28	0.0	0.0	0.4	225	21	63	744
6/12/2018	2:00	48	68	60	51	27	0.0	0.0	0.9	225	21	65	744
6/12/2018	2:15	48	65	60	51	27	0.0	0.0	1.3	225	20	66	744
6/12/2018	2:30	37	61	43	35	25	0.0	0.0	1.8	203	20	66	744
6/12/2018	2:45	50	69	63	52	27	0.0	0.0	0.4	158	20	66	744
6/12/2018	3:00	44	62	59	43	25	0.0	0.0	0.4	225	20	67	744
6/12/2018	3:15	43	60	56	45	25	0.0	0.0	0.9	225	20	68	744
6/12/2018	3:30	49	65	60	53	28	0.0	0.0	2.2	180	20	68	744
6/12/2018	3:45	41	62	55	41	24	0.0	0.0	0.4	203	20	68	744
6/12/2018	4:00	43	64	56	45	25	0.0	0.0	0.0	0	20	69	744
6/12/2018	4:15	50	68	60	55	28	0.0	0.0	1.3	203	19	69	744
6/12/2018	4:30	50	67	61	54	34	0.0	0.0	2.2	225	20	69	744
6/12/2018	4:45	49	66	61	53	33	0.0	0.0	2.2	203	20	67	744
6/12/2018	5:00	50	73	62	53	34	0.0	0.0	2.2	203	20	66	744
6/12/2018	5:15	47	65	58	52	31	0.0	0.0	2.2	45	20	64	745
6/12/2018	5:30	51	70	61	55	32	0.0	0.0	1.3	225	21	63	745

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018	5:45	53	73	63	57	34	0.0	0.0	2.2	248	21	61	745
6/12/2018	6:00	51	66	61	56	35	0.0	0.4	2.7	248	22	59	745
6/12/2018	6:15	51	66	63	56	34	0.0	0.4	2.7	225	23	56	745
6/12/2018	6:30	50	71	61	53	34	0.0	0.4	2.7	248	24	53	745
6/12/2018	6:45	52	79	63	56	35	0.0	0.4	2.7	248	25	50	745
6/12/2018	7:00	53	74	63	57	42	0.0	0.4	2.7	225	25	48	745
6/12/2018	7:15	55	74	65	59	44	0.0	0.9	4.0	225	25	48	745
6/12/2018	7:30	52	73	63	56	42	0.0	1.3	5.8	248	26	48	745
6/12/2018	7:45	51	67	62	53	38	0.0	0.9	4.0	225	26	47	745
6/12/2018	8:00	52	66	62	57	40	0.0	1.3	4.9	225	26	47	745
6/12/2018	8:15	55	69	64	59	40	0.0	0.9	4.5	225	27	47	745
6/12/2018	8:30	52	65	61	56	40	0.0	1.3	4.9	135	27	46	745
6/12/2018	8:45	54	67	62	58	41	0.0	0.9	4.0	135	28	45	745
6/12/2018	9:00	53	68	63	56	41	0.0	1.3	4.9	248	28	45	745
6/12/2018	9:15	49	64	61	52	39	0.0	1.3	4.5	158	28	44	745
6/12/2018	9:30	54	70	64	58	38	0.0	0.9	4.9	180	29	42	745
6/12/2018	9:45	52	68	62	55	38	0.0	0.9	4.5	248	30	41	745
6/12/2018	10:00	54	74	65	55	36	0.0	0.9	4.5	248	30	39	745
6/12/2018	10:15	51	66	62	55	37	0.0	0.9	3.1	248	31	37	745
6/12/2018	10:30	49	69	59	53	36	0.0	0.9	4.5	248	31	35	745
6/12/2018	10:45	45	60	55	48	35	0.0	1.3	4.5	135	31	36	745
6/12/2018	11:00	51	66	62	55	35	0.0	1.3	4.9	158	31	35	745
6/12/2018	11:15	50	69	62	53	34	0.0	0.9	3.1	248	32	35	744
6/12/2018	11:30	45	66	55	48	32	0.0	1.3	3.1	135	32	33	744
6/12/2018	11:45	48	67	59	52	34	0.0	1.3	3.1	135	33	33	744
6/12/2018	12:00	51	69	62	55	36	0.0	0.9	2.7	248	33	32	744
6/12/2018	12:15	49	66	59	54	34	0.0	1.3	4.0	158	33	31	744
6/12/2018	12:30	51	68	63	56	37	0.0	1.3	4.9	158	33	30	744
6/12/2018	12:45	51	72	66	52	34	0.0	0.9	4.5	248	34	29	744
6/12/2018	13:00	49	65	61	53	31	0.0	0.9	5.4	158	34	30	743
6/12/2018	13:15	49	66	60	53	34	0.0	1.8	4.0	135	34	29	743
6/12/2018	13:30	54	67	64	59	37	0.0	1.3	4.9	180	34	29	743
6/12/2018	13:45	51	71	62	54	35	0.0	0.9	4.0	135	35	27	743
6/12/2018	14:00	49	70	63	51	31	0.0	1.3	5.4	158	34	28	743
6/12/2018	14:15	51	70	60	55	38	0.0	1.3	4.0	135	34	28	742
6/12/2018	14:30	50	65	60	54	35	0.0	0.9	5.4	158	35	27	742
6/12/2018	14:45	51	68	63	55	35	0.0	1.3	4.5	135	34	27	742
6/12/2018	15:00	49	65	59	54	34	0.0	0.9	4.0	248	34	27	742
6/12/2018	15:15	54	68	63	58	40	0.0	1.3	3.6	248	34	28	742
6/12/2018	15:30	48	65	61	50	33	0.0	0.9	3.1	135	34	26	742
6/12/2018	15:45	52	69	65	56	33	0.0	0.9	3.1	225	34	27	742
6/12/2018	16:00	51	68	63	55	32	0.0	0.4	3.1	248	33	27	742
6/12/2018	16:15	54	73	64	58	30	0.0	0.4	4.5	248	34	27	742
6/12/2018	16:30	53	67	63	58	39	0.0	0.9	3.1	248	33	28	742
6/12/2018	16:45	54	68	65	59	38	0.0	0.9	4.5	203	33	29	742
6/12/2018	17:00	52	67	63	57	36	0.0	0.9	4.0	225	33	29	742
6/12/2018	17:15	52	68	62	57	37	0.0	0.9	4.9	225	32	29	742
6/12/2018	17:30	56	72	67	60	35	0.0	0.9	4.0	225	32	30	742
6/12/2018	17:45	49	62	59	54	37	0.0	0.9	4.0	248	32	30	743
6/12/2018	18:00	52	67	62	56	39	0.0	0.4	5.4	225	31	31	743
6/12/2018	18:15	54	67	63	59	39	0.0	0.4	2.7	225	31	32	743
6/12/2018	18:30	52	65	63	57	40	0.0	0.9	4.9	248	30	34	743
6/12/2018	18:45	52	66	63	57	42	0.0	0.9	4.0	225	29	36	743
6/12/2018	19:00	54	68	64	59	43	0.0	0.9	4.5	248	29	39	743
6/12/2018	19:15	54	65	63	59	42	0.0	0.4	2.7	248	28	41	744
6/12/2018	19:30	54	69	64	58	46	0.0	0.9	4.5	225	27	42	744
6/12/2018	19:45	54	70	64	59	44	0.0	1.3	5.4	225	27	43	744
6/12/2018	20:00	56	71	67	60	41	0.0	1.3	6.7	225	26	45	744
6/12/2018	20:15	55	68	65	60	40	0.0	0.9	4.5	248	26	45	744
6/12/2018	20:30	52	71	61	56	42	0.0	0.4	5.4	225	25	46	744
6/12/2018	20:45	47	66	59	50	39	0.0	0.9	4.5	225	25	48	745
6/12/2018	21:00	51	65	63	54	42	0.0	0.4	4.0	225	25	48	745
6/12/2018	21:15	55	75	67	58	43	0.0	0.9	4.9	248	24	49	745
6/12/2018	21:30	53	68	64	59	36	0.0	0.9	5.4	225	24	50	745
6/12/2018	21:45	55	69	65	60	37	0.0	0.9	4.0	225	24	52	745
6/12/2018	22:00	54	71	67	58	39	0.0	0.9	3.1	113	24	53	745
6/12/2018	22:15	52	66	62	58	41	0.0	0.9	5.8	135	23	54	745
6/12/2018	22:30	52	68	62	56	41	0.0	0.9	5.4	180	23	54	745
6/12/2018	22:45	51	67	62	56	39	0.0	0.4	4.0	180	23	55	745
6/12/2018	23:00	54	67	64	59	39	0.0	0.4	4.5	158	23	56	745

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018	23:15	49	64	60	50	37	0.0	0.4	2.2	180	22	56	745
6/12/2018	23:30	51	67	64	54	32	0.0	0.4	3.1	203	22	57	745
6/12/2018	23:45	48	64	60	52	31	0.0	0.4	2.7	225	22	58	745
7/12/2018	0:00	46	63	58	46	31	0.0	0.4	2.7	270	22	58	745
7/12/2018	0:15	44	62	58	44	28	0.0	0.4	2.2	180	21	59	745
7/12/2018	0:30	48	64	60	52	28	0.0	0.0	1.8	225	21	59	745
7/12/2018	0:45	50	64	61	56	29	0.0	0.0	3.1	203	21	60	745
7/12/2018	1:00	52	68	63	58	30	0.0	0.4	2.7	203	21	60	745
7/12/2018	1:15	40	56	54	40	26	0.0	0.4	1.8	45	21	60	745
7/12/2018	1:30	41	61	55	38	25	0.0	0.0	2.2	180	20	60	745
7/12/2018	1:45	49	66	60	53	29	0.0	0.0	2.2	225	20	60	745
7/12/2018	2:00	46	62	59	49	26	0.0	0.0	2.2	225	20	60	745
7/12/2018	2:15	45	63	59	43	26	0.0	0.0	2.2	203	20	60	745
7/12/2018	2:30	52	66	63	57	26	0.0	0.0	2.7	225	20	60	745
7/12/2018	2:45	45	64	58	42	23	0.0	0.0	1.8	248	20	61	745
7/12/2018	3:00	38	59	50	34	21	0.0	0.0	1.3	203	20	62	745
7/12/2018	3:15	42	59	56	43	22	0.0	0.0	0.4	248	19	63	745
7/12/2018	3:30	48	62	61	51	22	0.0	0.0	0.0	0	19	64	745
7/12/2018	3:45	42	60	57	43	23	0.0	0.0	0.9	248	18	65	745
7/12/2018	4:00	49	63	61	54	31	0.0	0.0	0.9	270	18	66	745
7/12/2018	4:15	47	62	57	51	28	0.0	0.0	0.9	225	18	66	745
7/12/2018	4:30	52	68	61	56	37	0.0	0.0	0.4	225	18	66	745
7/12/2018	4:45	53	72	61	57	43	0.0	0.0	0.9	225	18	66	745
7/12/2018	5:00	54	73	65	58	38	0.0	0.0	1.3	225	18	67	745
7/12/2018	5:15	54	73	65	57	35	0.0	0.0	1.3	225	18	67	745
7/12/2018	5:30	50	71	62	54	30	0.0	0.4	2.2	248	19	66	745
7/12/2018	5:45	51	68	62	56	32	0.0	0.9	2.2	248	19	64	745
7/12/2018	6:00	50	69	62	55	32	0.0	0.4	2.2	248	20	63	745
7/12/2018	6:15	50	67	62	53	34	0.0	0.9	3.1	45	21	60	746
7/12/2018	6:30	51	68	60	55	38	0.0	0.4	2.7	248	22	57	746
7/12/2018	6:45	50	64	61	54	36	0.0	0.4	3.1	248	23	56	746
7/12/2018	7:00	53	67	64	57	38	0.0	0.4	2.7	248	24	54	746
7/12/2018	7:15	49	65	59	53	40	0.0	0.9	2.7	225	25	53	746
7/12/2018	7:30	50	64	60	54	41	0.0	0.9	4.9	248	25	52	746
7/12/2018	7:45	50	69	60	53	40	0.0	0.9	4.5	225	26	50	746
7/12/2018	8:00	50	67	60	53	38	0.0	0.9	3.1	248	27	47	746
7/12/2018	8:15	53	66	62	58	38	0.0	0.9	3.1	203	27	47	746
7/12/2018	8:30	51	67	61	55	35	0.0	0.9	4.5	248	28	44	746
7/12/2018	8:45	54	70	64	58	42	0.0	0.9	4.5	248	28	40	746
7/12/2018	9:00	53	68	64	57	39	0.0	1.3	5.8	180	29	38	746
7/12/2018	9:15	50	64	60	53	37	0.0	1.3	4.0	248	29	37	746
7/12/2018	9:30	51	73	62	53	37	0.0	1.3	4.5	248	30	36	746
7/12/2018	9:45	49	63	59	53	38	0.0	1.8	5.8	135	29	36	746
7/12/2018	10:00	48	68	57	50	39	0.0	1.3	6.3	248	30	37	746
7/12/2018	10:15	49	69	59	53	36	0.0	1.3	5.4	248	30	38	746
7/12/2018	10:30	50	65	60	54	39	0.0	1.8	4.9	248	31	37	745
7/12/2018	10:45	53	68	64	57	41	0.0	1.3	7.2	248	31	37	745
7/12/2018	11:00	48	67	57	52	35	0.0	1.8	4.9	135	30	38	745
7/12/2018	11:15	53	69	63	58	37	0.0	1.8	4.5	135	30	38	745
7/12/2018	11:30	52	68	63	56	36	0.0	1.3	4.5	158	31	36	745
7/12/2018	11:45	48	63	59	52	37	0.0	1.3	5.4	135	31	35	745
7/12/2018	12:00	51	66	62	54	39	0.0	0.9	4.0	248	32	34	745
7/12/2018	12:15	50	64	59	54	40	0.0	1.3	8.5	135	32	33	745
7/12/2018	12:30	50	71	61	53	41	0.0	1.8	6.3	135	32	33	744
7/12/2018	12:45	50	67	60	54	40	0.0	1.3	4.5	225	33	33	744
7/12/2018	13:00	52	66	62	56	37	0.0	0.9	4.0	248	33	32	744
7/12/2018	13:15	52	68	63	55	40	0.0	0.9	5.8	248	33	33	744
7/12/2018	13:30	54	72	66	58	38	0.0	1.8	4.5	248	33	33	744
7/12/2018	13:45	48	64	60	52	37	0.0	1.3	4.0	248	33	32	744
7/12/2018	14:00	51	68	61	55	40	0.0	1.3	6.7	248	33	31	743
7/12/2018	14:15	50	65	61	54	38	0.0	1.3	5.8	248	33	32	743
7/12/2018	14:30	49	63	60	54	38	0.0	1.3	4.0	225	33	32	743
7/12/2018	14:45	51	72	61	54	39	0.0	0.9	5.4	225	33	32	743
7/12/2018	15:00	52	68	62	56	38	0.0	1.3	5.8	135	32	31	743
7/12/2018	15:15	51	67	61	55	36	0.0	1.3	4.5	248	32	31	743
7/12/2018	15:30	49	66	60	53	34	0.0	0.9	5.8	248	32	31	743
7/12/2018	15:45	51	68	61	55	38	0.0	1.3	4.0	293	32	32	743
7/12/2018	16:00	51	69	60	55	34	0.0	0.9	3.6	225	32	32	743
7/12/2018	16:15	52	71	63	56	40	0.0	0.9	4.5	225	32	32	742
7/12/2018	16:30	51	68	61	55	36	0.0	0.9	4.5	225	32	33	743

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018	16:45	53	67	62	58	43	0.0	1.3	4.9	248	31	34	742
7/12/2018	17:00	51	67	62	56	41	0.0	1.3	4.9	225	31	35	743
7/12/2018	17:15	54	72	65	57	41	0.0	0.9	4.5	225	31	35	743
7/12/2018	17:30	54	71	64	59	41	0.0	1.3	4.9	135	30	37	743
7/12/2018	17:45	53	68	63	57	43	0.0	0.9	5.8	248	30	38	743
7/12/2018	18:00	52	69	62	56	41	0.0	0.9	4.5	225	29	40	743
7/12/2018	18:15	54	70	64	58	44	0.0	0.9	3.1	225	28	41	744
7/12/2018	18:30	53	67	63	58	40	0.0	0.9	4.5	248	28	41	744
7/12/2018	18:45	51	70	62	55	38	0.0	0.9	4.5	248	27	41	744
7/12/2018	19:00	53	70	63	58	37	0.0	0.4	2.7	225	27	42	744
7/12/2018	19:15	53	67	63	58	37	0.0	0.4	2.7	225	27	44	744
7/12/2018	19:30	52	66	63	57	37	0.0	0.4	3.1	225	26	45	744
7/12/2018	19:45	51	66	61	56	37	0.0	0.9	3.1	225	26	45	745
7/12/2018	20:00	51	67	62	56	38	0.0	0.4	3.1	248	26	45	745
7/12/2018	20:15	52	66	63	58	37	0.0	0.4	3.1	225	26	47	745
7/12/2018	20:30	53	66	63	58	36	0.0	0.4	3.1	180	25	48	745
7/12/2018	20:45	53	75	65	55	37	0.0	0.4	4.0	248	25	49	745
7/12/2018	21:00	51	65	62	56	37	0.0	0.4	2.2	225	25	50	745
7/12/2018	21:15	49	64	60	53	34	0.0	0.4	2.2	225	24	53	745
7/12/2018	21:30	42	60	55	44	32	0.0	0.4	1.8	225	24	53	745
7/12/2018	21:45	50	63	60	54	35	0.0	0.4	2.7	248	24	53	746
7/12/2018	22:00	49	68	61	53	33	0.0	0.4	2.7	248	24	55	746
7/12/2018	22:15	50	67	61	54	34	0.0	0.4	2.7	248	23	55	746
7/12/2018	22:30	37	58	50	37	28	0.0	0.4	3.1	225	23	56	746
7/12/2018	22:45	51	66	63	57	29	0.0	0.0	1.3	225	23	57	746
7/12/2018	23:00	48	68	61	49	33	0.0	0.0	1.8	248	23	58	746
7/12/2018	23:15	48	64	60	51	33	0.0	0.4	4.5	248	22	59	746
7/12/2018	23:30	51	69	64	53	35	0.0	0.4	4.9	248	22	59	746
7/12/2018	23:45	45	67	59	43	34	0.0	0.4	4.0	248	22	60	746
8/12/2018	0:00	50	63	61	54	31	0.0	0.4	2.7	225	22	60	746
8/12/2018	0:15	49	62	59	54	28	0.0	0.0	1.8	203	22	61	746
8/12/2018	0:30	48	65	61	49	25	0.0	0.0	1.3	225	21	62	745
8/12/2018	0:45	42	60	56	38	24	0.0	0.0	1.3	180	21	64	745
8/12/2018	1:00	50	67	59	55	26	0.0	0.0	0.9	225	21	65	745
8/12/2018	1:15	46	63	59	48	25	0.0	0.0	0.9	203	21	65	745
8/12/2018	1:30	44	66	57	43	24	0.0	0.0	0.9	248	20	66	745
8/12/2018	1:45	48	63	60	54	24	0.0	0.0	1.8	248	20	67	745
8/12/2018	2:00	49	64	60	54	25	0.0	0.0	0.9	135	20	67	745
8/12/2018	2:15	47	62	60	50	23	0.0	0.0	0.4	270	20	67	745
8/12/2018	2:30	48	66	62	50	24	0.0	0.0	0.0	0	19	68	745
8/12/2018	2:45	46	60	58	50	23	0.0	0.0	0.4	270	19	68	745
8/12/2018	3:00	47	63	61	50	23	0.0	0.0	0.9	270	19	68	745
8/12/2018	3:15	47	66	62	44	22	0.0	0.0	0.0	0	19	70	745
8/12/2018	3:30	45	62	59	47	22	0.0	0.0	0.0	0	19	71	745
8/12/2018	3:45	42	65	57	42	21	0.0	0.0	0.0	0	19	70	745
8/12/2018	4:00	44	61	57	47	22	0.0	0.0	0.0	0	18	71	745
8/12/2018	4:15	48	64	60	51	25	0.0	0.0	0.0	0	18	71	745
8/12/2018	4:30	49	68	60	53	37	0.0	0.0	0.4	270	18	71	745
8/12/2018	4:45	52	65	61	57	43	0.0	0.0	0.0	0	18	72	745
8/12/2018	5:00	52	74	61	56	43	0.0	0.0	0.0	0	18	73	746
8/12/2018	5:15	52	73	61	55	37	0.0	0.0	0.0	0	18	72	746
8/12/2018	5:30	53	78	63	56	38	0.0	0.0	0.0	0	18	72	746
8/12/2018	5:45	51	75	60	55	32	0.0	0.0	0.4	270	19	69	746
8/12/2018	6:00	51	64	61	55	30	0.0	0.0	0.4	270	20	67	746
8/12/2018	6:15	48	64	60	51	29	0.0	0.0	1.3	270	22	63	746
8/12/2018	6:30	51	72	63	54	32	0.0	0.4	2.7	248	23	60	746
8/12/2018	6:45	47	62	57	51	32	0.0	0.4	4.0	248	23	58	746
8/12/2018	7:00	49	66	62	52	32	0.0	0.9	3.1	248	24	55	746
8/12/2018	7:15	50	66	60	55	38	0.0	0.4	2.2	225	25	54	746
8/12/2018	7:30	49	65	60	52	38	0.0	0.9	4.5	225	25	53	746
8/12/2018	7:45	50	67	60	53	40	0.0	0.9	4.5	248	26	52	746
8/12/2018	8:00	51	75	61	53	40	0.0	0.9	4.0	248	27	48	746
8/12/2018	8:15	47	70	57	51	39	0.0	1.3	4.5	248	27	48	746
8/12/2018	8:30	49	64	59	52	38	0.0	1.3	4.5	135	27	49	746
8/12/2018	8:45	49	64	59	53	38	0.0	0.9	2.7	135	27	48	746
8/12/2018	9:00	48	64	58	52	38	0.0	1.8	5.4	158	28	45	746
8/12/2018	9:15	50	66	60	54	39	0.0	1.3	4.9	113	29	43	746
8/12/2018	9:30	49	68	60	53	37	0.0	1.8	5.8	135	29	42	745
8/12/2018	9:45	50	65	61	54	40	0.0	1.8	5.4	135	29	41	745
8/12/2018	10:00	52	66	61	56	39	0.0	1.8	7.2	135	30	40	745

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	10:15	49	64	60	51	36	0.0	1.8	4.9	135	30	39	745
8/12/2018	10:30	51	70	62	54	39	0.0	1.3	4.9	225	31	38	745
8/12/2018	10:45	48	64	58	52	37	0.0	1.3	4.5	225	31	37	745
8/12/2018	11:00	48	67	59	50	38	0.0	1.3	4.5	248	32	36	745
8/12/2018	11:15	49	70	60	52	36	0.0	1.3	6.7	135	32	37	744
8/12/2018	11:30	50	68	60	53	37	0.0	1.8	5.4	135	31	36	744
8/12/2018	11:45	51	67	62	55	35	0.0	1.3	5.4	135	32	35	744
8/12/2018	12:00	47	64	57	51	37	0.0	0.9	3.6	135	33	34	744
8/12/2018	12:15	47	64	59	51	33	0.0	1.8	4.5	135	33	34	744
8/12/2018	12:30	47	61	57	51	34	0.0	1.3	4.5	135	33	33	743
8/12/2018	12:45	47	67	58	51	36	0.0	1.3	5.4	135	34	32	743
8/12/2018	13:00	44	62	56	47	33	0.0	1.8	7.6	135	34	31	743
8/12/2018	13:15	44	60	53	48	35	0.0	1.3	4.5	158	34	31	743
8/12/2018	13:30	48	62	59	52	34	0.0	1.8	5.4	158	34	30	743
8/12/2018	13:45	49	60	58	53	36	0.0	1.8	4.5	158	34	31	743
8/12/2018	14:00	51	67	63	55	37	0.0	1.3	4.5	135	35	32	742
8/12/2018	14:15	49	67	60	53	31	0.0	0.9	3.1	248	34	32	742
8/12/2018	14:30	48	62	59	53	32	0.0	0.9	2.7	248	34	31	742
8/12/2018	14:45	53	69	66	56	35	0.0	0.4	2.2	315	35	31	742
8/12/2018	15:00	47	63	59	51	33	0.0	0.9	4.9	248	34	32	742
8/12/2018	15:15	46	67	58	48	28	0.0	0.4	4.0	270	34	32	742
8/12/2018	15:30	48	61	59	53	33	0.0	0.4	2.7	158	34	32	742
8/12/2018	15:45	51	72	62	55	31	0.0	1.3	3.1	248	34	33	742
8/12/2018	16:00	51	66	62	54	37	0.0	0.4	4.0	248	33	34	742
8/12/2018	16:15	50	66	60	53	36	0.0	0.9	3.6	248	34	34	742
8/12/2018	16:30	49	68	62	50	28	0.0	0.4	3.1	248	33	34	741
8/12/2018	16:45	52	67	64	56	37	0.0	0.4	2.2	135	34	34	741
8/12/2018	17:00	51	70	62	55	34	0.0	0.9	4.0	135	34	33	742
8/12/2018	17:15	50	68	62	52	36	0.0	1.8	5.4	158	33	36	742
8/12/2018	17:30	52	69	62	56	39	0.0	1.3	4.5	135	32	38	742
8/12/2018	17:45	51	70	61	55	43	0.0	1.8	4.9	135	32	39	742
8/12/2018	18:00	50	69	61	55	40	0.0	2.7	6.7	135	31	40	742
8/12/2018	18:15	54	71	65	58	40	0.0	1.8	4.5	135	31	41	743
8/12/2018	18:30	51	72	61	55	41	0.0	1.8	5.4	135	30	42	743
8/12/2018	18:45	54	67	63	58	45	0.0	1.8	5.8	135	30	43	743
8/12/2018	19:00	54	73	66	58	44	0.0	1.8	7.2	135	29	45	743
8/12/2018	19:15	50	68	63	52	40	0.0	1.8	5.8	135	28	46	744
8/12/2018	19:30	51	64	60	55	40	0.0	2.2	7.6	135	28	48	744
8/12/2018	19:45	51	68	62	55	42	0.0	1.8	5.8	135	27	48	744
8/12/2018	20:00	47	64	57	50	39	0.0	2.2	6.3	135	27	49	744
8/12/2018	20:15	52	65	63	57	38	0.0	1.8	5.4	135	27	49	744
8/12/2018	20:30	51	67	62	56	38	0.0	1.3	4.9	135	26	49	744
8/12/2018	20:45	48	64	59	52	38	0.0	1.8	4.9	135	26	50	745
8/12/2018	21:00	44	60	56	47	35	0.0	1.8	5.4	135	26	51	745
8/12/2018	21:15	51	67	63	52	36	0.0	0.9	5.4	158	26	51	745
8/12/2018	21:30	48	62	59	52	37	0.0	0.9	5.4	135	25	51	745
8/12/2018	21:45	52	66	63	56	36	0.0	1.3	4.5	135	25	52	745
8/12/2018	22:00	50	67	60	55	32	0.0	0.4	2.7	180	25	53	745
8/12/2018	22:15	49	68	62	51	31	0.0	0.4	2.7	135	25	54	745
8/12/2018	22:30	48	68	60	52	35	0.0	0.4	2.7	135	24	55	744
8/12/2018	22:45	45	62	58	46	34	0.0	0.4	3.1	158	24	56	744
8/12/2018	23:00	54	68	64	59	37	0.0	0.4	4.9	113	24	57	744
8/12/2018	23:15	44	60	58	43	34	0.0	0.9	4.0	135	24	58	744
8/12/2018	23:30	45	61	58	44	36	0.0	0.9	4.0	135	23	59	744
8/12/2018	23:45	48	63	59	53	35	0.0	1.3	4.5	135	23	59	744
9/12/2018	0:00	39	56	50	41	33	0.0	1.8	4.9	135	23	60	744
9/12/2018	0:15	50	68	64	49	33	0.0	1.3	3.1	135	23	61	744
9/12/2018	0:30	42	58	55	45	31	0.0	1.8	4.5	135	23	62	744
9/12/2018	0:45	45	62	59	44	26	0.0	1.3	3.1	135	23	62	744
9/12/2018	1:00	47	65	59	48	24	0.0	0.4	4.9	135	22	62	744
9/12/2018	1:15	42	61	56	42	24	0.0	0.0	1.3	180	22	63	744
9/12/2018	1:30	44	64	60	36	23	0.0	0.0	0.9	293	22	64	744
9/12/2018	1:45	45	62	59	46	27	0.0	0.0	0.4	180	21	65	744
9/12/2018	2:00	46	68	61	42	27	0.0	0.0	2.7	158	21	65	743
9/12/2018	2:15	46	66	59	47	23	0.0	0.4	2.2	113	21	65	743
9/12/2018	2:30	32	57	42	34	22	0.0	0.0	1.8	225	21	66	743
9/12/2018	2:45	36	56	50	34	22	0.0	0.0	0.9	158	21	67	743
9/12/2018	3:00	28	36	34	33	21	0.0	0.0	0.0	0	20	68	743
9/12/2018	3:15	44	62	57	45	22	0.0	0.0	0.4	203	20	69	743
9/12/2018	3:30	49	63	61	53	24	0.0	0.0	0.0	0	20	71	743

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	3:45	39	59	51	43	22	0.0	0.0	0.0	0	20	71	743
9/12/2018	4:00	50	66	62	53	26	0.0	0.0	0.0	0	19	72	744
9/12/2018	4:15	42	61	55	44	25	0.0	0.0	0.0	0	19	72	744
9/12/2018	4:30	50	68	60	54	37	0.0	0.0	0.0	0	19	73	744
9/12/2018	4:45	56	75	68	58	44	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:00	52	68	62	55	38	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:15	50	79	61	52	31	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:30	48	66	59	52	34	0.0	0.0	1.3	203	19	73	744
9/12/2018	5:45	47	64	59	51	29	0.0	0.0	1.3	225	20	71	744
9/12/2018	6:00	42	67	55	45	26	0.0	0.4	1.8	248	21	69	744
9/12/2018	6:15	45	64	55	49	30	0.0	0.4	2.2	248	22	65	744
9/12/2018	6:30	47	67	59	50	31	0.0	0.4	2.7	248	23	62	744
9/12/2018	6:45	48	65	61	51	32	0.0	0.4	2.7	248	24	59	744
9/12/2018	7:00	49	69	59	52	34	0.0	0.4	2.2	248	25	56	744
9/12/2018	7:15	49	70	60	53	33	0.0	0.4	2.7	248	25	55	744
9/12/2018	7:30	47	73	59	47	32	0.0	0.4	2.2	248	27	53	744
9/12/2018	7:45	48	66	58	52	34	0.0	0.4	2.2	203	27	51	744
9/12/2018	8:00	49	65	60	53	33	0.0	0.4	2.2	225	28	50	744
9/12/2018	8:15	43	58	54	46	32	0.0	0.9	4.5	135	27	52	744
9/12/2018	8:30	47	68	59	50	31	0.0	0.9	3.1	158	28	49	744
9/12/2018	8:45	48	73	57	48	33	0.0	0.9	2.7	135	29	48	744
9/12/2018	9:00	43	64	53	46	33	0.0	0.4	3.1	203	30	46	744
9/12/2018	9:15	46	71	55	49	33	0.0	0.9	3.1	135	30	45	744
9/12/2018	9:30	52	80	61	53	36	0.0	0.9	4.0	135	31	44	744
9/12/2018	9:45	42	57	51	46	33	0.0	0.9	4.9	180	31	42	744
9/12/2018	10:00	45	62	57	49	33	0.0	0.9	4.5	135	32	40	743
9/12/2018	10:15	46	63	58	50	34	0.0	0.9	4.5	158	32	40	743
9/12/2018	10:30	49	67	61	54	33	0.0	0.9	3.1	135	33	38	743
9/12/2018	10:45	45	66	55	49	31	0.0	0.4	2.7	135	34	36	743
9/12/2018	11:00	48	65	59	52	34	0.0	1.8	4.9	135	33	37	743
9/12/2018	11:15	47	61	58	51	34	0.0	0.9	2.7	180	34	36	743
9/12/2018	11:30	48	65	59	53	33	0.0	0.4	2.7	248	35	34	742
9/12/2018	11:45	46	65	57	50	33	0.0	1.3	4.0	248	35	34	742
9/12/2018	12:00	47	59	57	52	34	0.0	0.9	6.3	135	35	33	742
9/12/2018	12:15	49	67	59	54	33	0.0	0.9	3.1	135	35	32	742
9/12/2018	12:30	47	66	60	50	33	0.0	0.4	3.1	113	36	32	742
9/12/2018	12:45	48	64	59	53	31	0.0	0.9	3.1	225	36	32	742
9/12/2018	13:00	50	65	61	54	30	0.0	1.3	4.9	135	36	31	741
9/12/2018	13:15	51	67	63	55	34	0.0	0.9	4.9	248	36	30	741
9/12/2018	13:30	47	68	57	51	32	0.0	0.9	4.5	135	36	30	741
9/12/2018	13:45	47	62	58	52	33	0.0	1.3	3.1	135	36	30	741
9/12/2018	14:00	48	66	60	50	31	0.0	0.9	6.3	248	36	30	741
9/12/2018	14:15	49	63	60	53	36	0.0	0.9	3.1	315	36	29	740
9/12/2018	14:30	46	60	57	49	34	0.0	0.9	2.7	135	36	30	740
9/12/2018	14:45	50	63	60	55	31	0.0	0.9	4.5	248	37	29	740
9/12/2018	15:00	48	65	60	53	30	0.0	0.9	3.1	135	36	30	740
9/12/2018	15:15	51	65	62	56	34	0.0	0.9	5.8	270	37	28	740
9/12/2018	15:30	52	72	63	56	32	0.0	0.9	3.1	135	37	27	740
9/12/2018	15:45	50	62	60	55	35	0.0	0.9	2.7	315	35	29	739
9/12/2018	16:00	51	71	63	55	32	0.0	0.4	4.0	180	36	28	739
9/12/2018	16:15	53	71	63	59	36	0.0	0.4	2.2	248	36	27	739
9/12/2018	16:30	52	66	61	57	34	0.0	0.9	4.9	203	36	27	739
9/12/2018	16:45	52	70	64	54	33	0.0	0.4	3.1	248	36	27	739
9/12/2018	17:00	52	67	62	57	33	0.0	0.4	2.7	248	36	28	739
9/12/2018	17:15	52	66	62	56	37	0.0	0.9	4.5	135	35	28	739
9/12/2018	17:30	52	73	62	57	39	0.0	0.9	3.1	135	35	29	739
9/12/2018	17:45	53	69	64	58	39	0.0	0.9	4.5	135	35	30	740
9/12/2018	18:00	53	72	62	58	39	0.0	1.8	5.4	135	34	30	740
9/12/2018	18:15	54	71	63	60	40	0.0	1.3	4.0	135	34	30	740
9/12/2018	18:30	54	71	63	59	41	0.0	1.8	4.9	135	33	31	740
9/12/2018	18:45	54	72	67	58	38	0.0	1.8	4.5	135	33	31	740
9/12/2018	19:00	51	72	61	56	31	0.0	1.3	3.1	135	33	32	740
9/12/2018	19:15	51	68	62	55	30	0.0	1.3	3.6	135	32	32	740
9/12/2018	19:30	53	70	65	58	30	0.0	0.9	2.7	135	32	33	740
9/12/2018	19:45	51	67	60	56	32	0.0	0.9	2.2	135	32	34	741
9/12/2018	20:00	44	65	56	49	31	0.0	0.9	2.7	135	31	35	741
9/12/2018	20:15	53	72	65	57	33	0.0	1.3	2.7	135	31	36	741
9/12/2018	20:30	41	64	52	42	35	0.0	0.9	3.1	135	31	36	741
9/12/2018	20:45	51	68	62	56	35	0.0	1.3	4.5	135	30	38	741
9/12/2018	21:00	52	70	63	57	35	0.0	1.8	4.5	135	30	41	741

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	21:15	52	67	63	57	40	0.0	1.8	4.9	135	29	43	742
9/12/2018	21:30	47	64	57	50	38	0.0	1.8	4.5	135	29	47	742
9/12/2018	21:45	51	69	61	55	38	0.0	1.8	4.9	135	28	50	742
9/12/2018	22:00	49	64	60	53	36	0.0	1.8	4.5	135	28	52	742
9/12/2018	22:15	45	62	58	47	36	0.0	1.3	3.1	135	27	53	742
9/12/2018	22:30	49	67	63	46	33	0.0	1.3	4.5	135	27	54	743
9/12/2018	22:45	46	68	58	48	36	0.0	0.9	2.7	135	27	55	743
9/12/2018	23:00	46	65	60	41	33	0.0	1.3	4.5	135	26	56	743
9/12/2018	23:15	40	58	54	40	30	0.0	1.3	4.5	135	26	57	743
9/12/2018	23:30	47	63	60	50	29	0.0	0.9	2.2	135	26	59	743
9/12/2018	23:45	45	63	57	50	31	0.0	0.4	3.1	135	26	59	743
10/12/2018	0:00	46	62	59	46	27	0.0	0.4	2.7	135	25	60	743
10/12/2018	0:15	37	53	46	39	30	0.0	0.4	2.2	158	25	61	743
10/12/2018	0:30	42	60	56	40	32	0.0	0.9	3.1	135	25	62	742
10/12/2018	0:45	44	64	59	39	28	0.0	0.9	2.7	135	25	63	742
10/12/2018	1:00	44	61	58	39	26	0.0	0.9	2.7	135	24	64	742
10/12/2018	1:15	45	65	60	40	27	0.0	0.4	2.2	158	24	65	742
10/12/2018	1:30	43	61	58	39	25	0.0	0.4	1.8	135	24	65	742
10/12/2018	1:45	43	62	58	39	25	0.0	0.4	1.8	135	24	66	742
10/12/2018	2:00	43	60	57	39	26	0.0	0.4	1.8	135	23	67	742
10/12/2018	2:15	44	62	59	41	29	0.0	0.4	4.0	135	23	68	742
10/12/2018	2:30	48	62	58	53	30	0.0	0.9	2.2	135	23	67	742
10/12/2018	2:45	35	53	48	37	27	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:00	44	63	58	45	24	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:15	45	61	60	44	23	0.0	0.4	2.2	158	23	69	742
10/12/2018	3:30	36	53	49	38	23	0.0	0.4	2.2	158	22	69	742
10/12/2018	3:45	44	63	56	45	24	0.0	0.0	1.3	158	22	70	742
10/12/2018	4:00	44	62	57	46	24	0.0	0.0	1.3	158	22	71	742
10/12/2018	4:15	51	64	61	55	27	0.0	0.0	1.8	135	22	71	742
10/12/2018	4:30	55	77	66	58	35	0.0	0.4	1.8	135	22	71	742
10/12/2018	4:45	51	70	62	55	37	0.0	0.0	0.9	135	22	72	742
10/12/2018	5:00	49	73	59	53	37	0.0	0.0	0.9	180	21	73	742
10/12/2018	5:15	50	78	62	52	34	0.0	0.0	2.2	158	21	73	742
10/12/2018	5:30	52	73	62	56	39	0.0	0.0	1.3	158	21	73	742
10/12/2018	5:45	52	67	61	57	36	0.0	0.4	2.2	135	22	71	742
10/12/2018	6:00	51	68	63	54	34	0.0	0.4	2.2	135	23	69	742
10/12/2018	6:15	51	70	61	56	39	0.0	0.9	4.0	135	24	66	742
10/12/2018	6:30	51	69	61	55	36	0.0	1.3	4.5	135	24	64	743
10/12/2018	6:45	50	73	61	55	35	0.0	1.3	3.1	135	25	63	743
10/12/2018	7:00	49	64	60	53	34	0.0	1.3	3.1	135	26	61	743
10/12/2018	7:15	50	70	61	55	34	0.0	1.3	4.5	135	26	60	743
10/12/2018	7:30	52	69	61	56	36	0.0	0.9	2.7	135	27	58	743
10/12/2018	7:45	47	73	58	51	32	0.0	0.9	2.7	135	27	56	743
10/12/2018	8:00	45	61	56	48	34	0.0	0.9	2.7	135	28	54	743
10/12/2018	8:15	49	68	60	53	36	0.0	0.9	3.1	158	28	53	743
10/12/2018	8:30	44	63	54	47	35	0.0	0.4	2.7	203	29	51	743
10/12/2018	8:45	49	65	60	51	36	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:00	49	68	61	51	34	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:15	45	64	55	49	34	0.0	1.3	4.5	158	31	46	742
10/12/2018	9:30	47	62	57	51	35	0.0	1.3	4.0	135	31	45	742
10/12/2018	9:45	50	67	64	53	36	0.0	1.3	3.1	135	31	43	742
10/12/2018	10:00	49	66	62	52	34	0.0	0.9	3.1	180	32	41	742
10/12/2018	10:15	49	69	60	55	35	0.0	0.4	3.1	270	33	40	742
10/12/2018	10:30	48	61	58	53	34	0.0	0.9	4.0	135	33	39	742
10/12/2018	10:45	49	62	58	54	34	0.0	0.9	3.6	180	33	36	742
10/12/2018	11:00	48	70	58	51	34	0.0	0.4	4.9	135	34	34	742
10/12/2018	11:15	44	63	58	47	31	0.0	1.3	4.5	135	34	33	742
10/12/2018	11:30	50	65	61	55	33	0.0	0.4	3.1	68	34	34	741
10/12/2018	11:45	49	64	59	53	33	0.0	0.9	2.7	135	35	33	741
10/12/2018	12:00	47	62	58	51	30	0.0	0.4	1.8	180	35	32	741
10/12/2018	12:15	47	63	58	52	34	0.0	0.9	3.1	248	36	30	741
10/12/2018	12:30	47	68	58	50	31	0.0	0.9	2.7	248	36	31	741
10/12/2018	12:45	49	66	59	54	32	0.0	0.9	3.1	293	35	32	740
10/12/2018	13:00	50	72	60	55	35	0.0	0.9	3.6	158	35	31	740
10/12/2018	13:15	46	63	58	49	32	0.0	0.9	3.1	225	36	31	740
10/12/2018	13:30	49	69	61	51	33	0.0	0.4	2.2	158	36	30	740
10/12/2018	13:45	51	72	62	53	34	0.0	0.9	3.1	135	37	30	739
10/12/2018	14:00	47	67	58	52	33	0.0	0.9	4.5	248	36	30	739
10/12/2018	14:15	47	63	61	48	32	0.0	0.4	2.2	225	37	29	739
10/12/2018	14:30	49	68	61	53	29	0.0	0.9	2.7	135	38	28	739

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	14:45	50	64	61	55	32	0.0	0.9	2.7	248	37	29	739
10/12/2018	15:00	45	60	56	48	32	0.0	0.9	3.1	248	37	29	738
10/12/2018	15:15	50	67	60	55	35	0.0	0.4	2.7	158	37	28	738
10/12/2018	15:30	50	68	62	53	33	0.0	0.9	3.1	113	37	28	738
10/12/2018	15:45	51	68	62	55	32	0.0	0.4	2.2	315	37	27	738
10/12/2018	16:00	55	72	68	57	35	0.0	0.4	1.8	225	37	27	738
10/12/2018	16:15	49	78	59	52	32	0.0	0.4	2.7	270	37	27	738
10/12/2018	16:30	51	65	62	57	33	0.0	1.3	3.1	293	36	27	738
10/12/2018	16:45	50	65	61	55	35	0.0	0.4	1.8	248	37	26	738
10/12/2018	17:00	50	67	60	54	37	0.0	1.3	2.7	113	36	26	738
10/12/2018	17:15	51	72	61	56	36	0.0	0.4	2.2	113	36	26	738
10/12/2018	17:30	52	69	63	55	38	0.0	0.0	1.8	203	36	26	738
10/12/2018	17:45	50	68	62	54	33	0.0	0.4	3.1	225	36	26	738
10/12/2018	18:00	51	75	59	55	33	0.0	0.0	0.9	135	36	27	739
10/12/2018	18:15	52	67	62	57	33	0.0	0.0	2.2	135	36	27	739
10/12/2018	18:30	52	65	61	56	36	0.0	0.0	1.3	158	35	27	739
10/12/2018	18:45	52	67	61	57	38	0.0	0.0	0.4	135	35	28	739
10/12/2018	19:00	50	62	60	56	30	0.0	0.0	0.0	0	34	29	739
10/12/2018	19:15	50	66	61	55	34	0.0	0.0	0.0	0	33	30	739
10/12/2018	19:30	51	68	61	56	35	0.0	0.0	0.0	0	33	31	739
10/12/2018	19:45	50	66	59	55	36	0.0	0.0	0.4	135	33	31	739
10/12/2018	20:00	52	66	63	56	35	0.0	0.4	1.8	135	33	31	739
10/12/2018	20:15	48	64	61	50	31	0.0	0.4	1.8	135	33	32	740
10/12/2018	20:30	51	68	62	56	31	0.0	0.4	2.2	135	32	33	740
10/12/2018	20:45	47	67	57	52	32	0.0	0.4	2.2	158	32	36	740
10/12/2018	21:00	53	69	63	57	33	0.0	0.4	2.2	158	32	38	740
10/12/2018	21:15	50	63	60	56	32	0.0	0.9	3.1	135	31	39	740
10/12/2018	21:30	47	61	58	52	31	0.0	0.4	2.2	135	31	40	741
10/12/2018	21:45	51	66	61	57	33	0.0	0.9	2.7	158	31	40	741
10/12/2018	22:00	49	67	62	51	30	0.0	0.9	3.1	135	31	41	741
10/12/2018	22:15	46	65	60	44	31	0.0	0.9	2.7	158	30	42	741
10/12/2018	22:30	48	62	60	54	32	0.0	0.9	3.1	135	30	43	741
10/12/2018	22:45	52	67	63	56	36	0.0	1.3	4.9	135	30	45	741
10/12/2018	23:00	48	67	61	51	37	0.0	1.8	6.7	135	29	47	741
10/12/2018	23:15	49	63	60	52	36	0.0	1.8	5.8	135	29	49	741
10/12/2018	23:30	49	65	61	54	36	0.0	1.8	5.8	135	28	51	741
10/12/2018	23:45	44	59	55	46	35	0.0	1.8	5.8	135	28	53	741
11/12/2018	0:00	47	64	61	48	35	0.0	2.2	5.8	135	28	55	741
11/12/2018	0:15	45	60	58	46	34	0.0	1.8	4.9	135	27	56	741
11/12/2018	0:30	43	67	55	44	33	0.0	1.8	4.9	135	27	57	741
11/12/2018	0:45	47	66	60	41	29	0.0	1.3	4.5	135	27	58	741
11/12/2018	1:00	45	63	59	46	30	0.0	0.9	2.7	135	26	59	741
11/12/2018	1:15	47	62	58	53	29	0.0	0.9	2.7	135	26	60	741
11/12/2018	1:30	48	64	59	53	29	0.0	0.4	2.2	135	26	61	741
11/12/2018	1:45	44	62	58	43	29	0.0	0.4	2.2	135	26	62	741
11/12/2018	2:00	46	60	58	51	27	0.0	0.4	3.1	135	25	63	741
11/12/2018	2:15	41	57	54	41	27	0.0	1.3	2.7	135	25	63	741
11/12/2018	2:30	48	67	60	53	30	0.0	0.9	2.2	135	25	64	741
11/12/2018	2:45	43	59	56	46	27	0.0	0.9	2.7	135	25	65	741
11/12/2018	3:00	48	64	60	52	28	0.0	1.3	2.7	135	25	65	741
11/12/2018	3:15	32	48	42	35	27	0.0	0.9	2.7	135	24	66	741
11/12/2018	3:30	49	66	62	47	30	0.0	0.9	2.2	135	24	67	741
11/12/2018	3:45	41	61	53	42	30	0.0	0.9	4.0	158	24	67	741
11/12/2018	4:00	44	57	56	48	29	0.0	1.3	3.1	135	24	67	741
11/12/2018	4:15	41	58	53	44	30	0.0	0.9	2.7	135	23	68	741
11/12/2018	4:30	51	71	62	55	35	0.0	1.3	4.0	135	23	68	741
11/12/2018	4:45	52	76	63	55	38	0.0	1.3	3.6	135	23	68	741
11/12/2018	5:00	53	75	66	55	36	0.0	1.3	3.1	135	23	68	741
11/12/2018	5:15	54	72	63	59	41	0.0	0.9	3.1	135	23	68	741
11/12/2018	5:30	50	66	60	54	32	0.0	0.4	2.2	135	23	67	742
11/12/2018	5:45	50	70	62	54	36	0.0	0.9	2.2	158	24	67	742
11/12/2018	6:00	53	70	63	58	39	0.0	1.3	4.5	135	24	66	742
11/12/2018	6:15	51	66	61	55	38	0.0	1.3	4.5	135	25	64	742
11/12/2018	6:30	50	65	61	55	35	0.0	1.3	3.1	135	25	62	742
11/12/2018	6:45	52	72	64	55	33	0.0	0.9	2.7	135	26	58	743
11/12/2018	7:00	52	73	63	56	37	0.0	0.9	4.0	135	27	56	742
11/12/2018	7:15	51	66	61	55	37	0.0	1.3	4.0	135	27	54	742
11/12/2018	7:30	53	67	62	57	41	0.0	0.9	4.0	135	28	52	742
11/12/2018	7:45	51	75	60	54	37	0.0	0.9	4.0	135	28	53	742
11/12/2018	8:00	53	73	64	55	38	0.0	0.9	3.1	135	27	54	742

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	8:15	51	82	59	53	36	0.0	0.4	2.2	135	29	51	742
11/12/2018	8:30	50	67	61	55	39	0.0	0.9	4.0	135	30	49	742
11/12/2018	8:45	49	70	61	52	39	0.0	0.9	3.1	158	31	46	742
11/12/2018	9:00	47	62	57	49	39	0.0	0.9	3.6	158	31	46	742
11/12/2018	9:15	46	60	57	50	34	0.0	0.9	3.1	135	32	45	742
11/12/2018	9:30	48	67	60	52	35	0.0	0.9	2.7	135	32	42	742
11/12/2018	9:45	47	62	59	51	34	0.0	0.9	4.0	135	32	42	742
11/12/2018	10:00	45	69	56	48	31	0.0	0.9	2.7	225	33	42	742
11/12/2018	10:15	49	66	60	53	33	0.0	0.9	2.7	248	33	40	742
11/12/2018	10:30	49	63	59	53	32	0.0	0.9	3.1	293	32	41	742
11/12/2018	10:45	51	69	60	55	36	0.0	0.9	3.1	293	32	41	742
11/12/2018	11:00	48	61	58	52	31	0.0	0.9	5.4	248	33	40	742
11/12/2018	11:15	48	66	59	53	33	0.0	1.3	4.5	248	33	40	742
11/12/2018	11:30	47	65	58	51	31	0.0	0.9	2.7	293	33	39	742
11/12/2018	11:45	49	69	63	51	30	0.0	0.9	3.1	248	34	36	741
11/12/2018	12:00	51	68	62	55	35	0.0	0.9	3.1	248	35	36	741
11/12/2018	12:15	51	70	64	54	32	0.0	0.9	3.1	315	35	36	741
11/12/2018	12:30	48	64	61	51	29	0.0	0.9	3.1	248	35	35	740
11/12/2018	12:45	50	67	62	55	33	0.0	0.4	3.1	225	35	34	740
11/12/2018	13:00	49	66	60	52	35	0.0	0.9	9.8	203	35	33	740
11/12/2018	13:15	50	63	60	54	36	0.0	0.4	2.2	248	36	31	740
11/12/2018	13:30	52	70	62	56	34	0.0	0.9	2.7	248	35	32	740
11/12/2018	13:45	50	65	61	54	35	0.0	0.9	4.0	248	35	32	740
11/12/2018	14:00	52	70	61	56	37	0.0	0.4	4.0	158	35	32	739
11/12/2018	14:15	52	69	64	56	38	0.0	0.4	2.2	270	35	32	739
11/12/2018	14:30	49	65	59	53	32	0.0	0.4	2.7	225	37	29	739
11/12/2018	14:45	51	64	61	55	33	0.0	0.9	3.1	135	37	29	739
11/12/2018	15:00	55	73	67	58	36	0.0	0.9	3.1	225	37	29	739
11/12/2018	15:15	50	68	60	54	30	0.0	0.4	2.2	135	37	28	739
11/12/2018	15:30	53	71	65	56	33	0.0	0.4	2.7	248	36	29	738
11/12/2018	15:45	53	68	64	58	34	0.0	0.4	2.7	248	36	28	738
11/12/2018	16:00	51	70	62	55	35	0.0	0.4	2.7	135	36	29	738
11/12/2018	16:15	50	71	62	54	32	0.0	0.4	2.2	158	36	29	738
11/12/2018	16:30	52	69	62	57	33	0.0	0.0	1.8	248	36	30	738
11/12/2018	16:45	52	68	62	57	32	0.0	0.4	1.8	270	36	30	738
11/12/2018	17:00	53	70	63	57	33	0.0	0.4	1.8	248	36	30	738
11/12/2018	17:15	52	67	63	57	35	0.0	0.9	2.7	135	36	30	738
11/12/2018	17:30	51	65	61	56	33	0.0	0.4	2.2	158	36	30	738
11/12/2018	17:45	52	66	62	57	36	0.0	0.4	2.7	135	36	30	738
11/12/2018	18:00	53	68	62	57	39	0.0	0.0	1.3	248	35	31	738
11/12/2018	18:15	52	68	63	57	36	0.0	0.0	0.9	248	35	31	738
11/12/2018	18:30	56	72	65	60	38	0.0	0.0	0.4	248	35	31	738
11/12/2018	18:45	56	72	66	61	41	0.0	0.0	1.8	203	34	31	738
11/12/2018	19:00	52	68	63	57	35	0.0	0.0	3.1	203	34	31	739
11/12/2018	19:15	53	65	63	58	37	0.0	0.0	1.8	0	34	33	739
11/12/2018	19:30	54	70	66	58	39	0.0	0.4	2.7	225	33	35	739
11/12/2018	19:45	54	75	65	59	40	0.0	0.4	3.6	225	33	37	739
11/12/2018	20:00	47	60	56	51	39	0.0	0.9	3.6	225	32	38	739
11/12/2018	20:15	52	68	63	57	38	0.0	0.9	3.1	225	31	39	739
11/12/2018	20:30	52	69	63	56	40	0.0	0.4	3.1	248	31	41	740
11/12/2018	20:45	54	68	63	59	38	0.0	0.9	4.5	225	30	42	740
11/12/2018	21:00	54	70	65	58	34	0.0	0.4	4.5	248	30	43	740
11/12/2018	21:15	53	68	63	58	37	0.0	0.4	3.1	225	30	44	740
11/12/2018	21:30	53	70	63	58	39	0.0	0.4	4.5	203	29	45	740
11/12/2018	21:45	52	65	61	58	38	0.0	0.9	5.4	135	29	46	740
11/12/2018	22:00	54	71	66	58	38	0.0	1.3	6.3	135	29	48	740
11/12/2018	22:15	51	65	62	57	30	0.0	1.8	4.9	135	29	49	740
11/12/2018	22:30	42	58	52	45	32	0.0	1.3	3.1	135	29	50	741
11/12/2018	22:45	50	63	60	55	38	0.0	2.2	5.8	135	28	50	741
11/12/2018	23:00	50	62	60	55	38	0.0	2.2	5.4	135	28	51	741
11/12/2018	23:15	53	67	62	58	40	0.0	2.7	6.3	135	28	53	741
11/12/2018	23:30	53	67	66	57	38	0.0	2.2	6.7	135	27	55	741
11/12/2018	23:45	51	66	63	54	35	0.0	1.8	5.4	135	27	56	741
12/12/2018	0:00	49	64	61	53	33	0.0	1.8	5.4	135	27	57	741
12/12/2018	0:15	47	65	58	53	31	0.0	1.8	4.5	135	26	58	740
12/12/2018	0:30	50	66	63	54	36	0.0	1.8	4.0	135	26	58	740
12/12/2018	0:45	51	68	62	56	35	0.0	2.2	4.9	135	26	59	740
12/12/2018	1:00	47	62	60	44	32	0.0	1.3	3.6	135	26	59	740
12/12/2018	1:15	49	65	61	52	33	0.0	1.3	3.1	158	26	60	740
12/12/2018	1:30	49	67	62	47	31	0.0	1.3	3.1	135	25	61	740

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018	1:45	47	65	61	46	33	0.0	1.3	3.6	135	25	62	740
12/12/2018	2:00	48	64	61	53	32	0.0	0.9	4.9	135	25	64	740
12/12/2018	2:15	46	60	58	48	31	0.0	1.3	4.9	135	25	65	740
12/12/2018	2:30	47	65	60	50	32	0.0	0.9	2.7	135	25	65	740
12/12/2018	2:45	47	65	61	46	31	0.0	1.3	4.0	158	24	66	740
12/12/2018	3:00	34	49	41	37	29	0.0	1.3	4.5	135	24	66	740
12/12/2018	3:15	48	64	61	51	31	0.0	1.3	3.1	135	24	67	740
12/12/2018	3:30	49	66	60	55	31	0.0	1.3	3.1	135	24	68	740
12/12/2018	3:45	48	63	60	52	32	0.0	1.3	3.1	135	24	68	740
12/12/2018	4:00	48	65	60	53	28	0.0	1.3	3.1	135	24	69	739
12/12/2018	4:15	39	61	52	40	24	0.0	0.9	2.7	135	23	69	740
12/12/2018	4:30	49	64	58	53	32	0.0	0.4	2.2	158	23	69	740
12/12/2018	4:45	51	70	61	54	40	0.0	0.4	1.8	135	23	69	740
12/12/2018	5:00	49	70	58	53	33	0.0	0.0	1.8	158	23	70	740
12/12/2018	5:15	53	71	63	57	36	0.0	0.4	2.2	135	23	70	740
12/12/2018	5:30	51	68	61	55	35	0.0	0.4	1.8	135	23	70	740
12/12/2018	5:45	48	65	60	51	36	0.0	0.4	2.7	135	24	70	740
12/12/2018	6:00	52	72	62	56	37	0.0	0.4	2.2	135	24	69	740
12/12/2018	6:15	53	70	63	59	36	0.0	0.9	3.1	135	24	68	741
12/12/2018	6:30	52	69	63	56	37	0.0	1.3	4.0	135	25	67	741
12/12/2018	6:45	50	71	61	53	36	0.0	1.3	4.0	158	25	66	741
12/12/2018	7:00	52	69	62	56	37	0.0	1.3	4.9	135	26	64	741
12/12/2018	7:15	52	76	63	56	37	0.0	1.3	4.5	158	26	62	741
12/12/2018	7:30	52	73	63	58	36	0.0	1.3	4.0	135	27	60	741
12/12/2018	7:45	52	74	64	54	35	0.0	0.9	4.0	135	27	58	741
12/12/2018	8:00	49	67	61	52	35	0.0	1.3	4.0	135	28	56	741
12/12/2018	8:15	50	67	61	54	36	0.0	0.4	3.1	180	29	52	741
12/12/2018	8:30	47	61	56	52	38	0.0	1.3	3.1	135	29	53	741
12/12/2018	8:45	48	60	59	52	37	0.0	0.9	4.5	135	30	50	741
12/12/2018	9:00	49	67	60	53	36	0.0	0.9	3.1	135	31	48	740
12/12/2018	9:15	49	66	60	54	37	0.0	0.9	4.9	158	31	46	740
12/12/2018	9:30	50	65	61	54	37	0.0	0.9	4.5	135	32	44	740
12/12/2018	9:45	46	66	56	49	35	0.0	0.9	4.0	135	32	43	740
12/12/2018	10:00	50	65	60	54	37	0.2	0.9	3.1	135	34	39	739
12/12/2018	10:15	51	66	62	56	36	0.0	0.0	0.0	0	34	39	739
12/12/2018	10:30	47	68	58	51	33	0.0	0.0	0.0	0	35	36	739
12/12/2018	10:45	50	67	61	55	35	0.0	0.0	0.0	0	35	34	739
12/12/2018	11:00	48	76	60	48	31	0.0	0.0	0.0	0	36	34	739
12/12/2018	11:15	52	79	64	54	34	0.0	0.0	0.0	0	36	32	739

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_05

From	Thursday 6/12/2018 7:45	Meas. Type	Free Field	Package	Border to Gowrie
To	Thursday 13/12/2018 7:30	Mic. Height (m)	1.8	Address	Lovells Crossing Road
Instrument Type	Larson Davis 831	Weather Station	No	Suburb	Inglewood
Instrument Serial #	3337	Operator	JR	Land Use	Residential
Inst. Cal. Date	13/7/2017	Sample Int.	15 min	Latitude	28°23'48.66"S
Pre Calibration	94	RP Lot#	121MH94	Longitude	151° 4'19.56"E
Post Calibration	94				

Daytime

RBL **30.6 dB(A)**

ABLs Day (Mon-Fri 7am - 6 pm)

ABLs Day (Sat 8 am - 1 pm)

Thursday 6/12/2018	32.2	dB(A)
Friday 7/12/2018	37.1	dB(A)
Saturday 8/12/2018	32.9	dB(A)
Monday 10/12/2018	27.7	dB(A)
Tuesday 11/12/2018	29	dB(A)
Wednesday 12/12/2018	28.3	dB(A)

Evening

RBL **33.0 dB(A)**

ABLs Evening (Mon-Fri 6 pm - 10 pm)

ABLs Evening (Sat 1 pm - 10 pm)

ABLs Evening (Sun 7 am - 10 pm)

Thursday 6/12/2018	36.4	dB(A)
Friday 7/12/2018	33.0	dB(A)
Saturday 8/12/2018	31.3	dB(A)
Sunday 9/12/2018	31.1	dB(A)
Monday 10/12/2018	27.7	dB(A)
Tuesday 11/12/2018	37.1	dB(A)
Wednesday 12/12/2018	33.3	dB(A)

Night

RBL **23.0 dB(A)**

ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)

ABLs Night (Fri 6pm - 8am)

Thursday 6/12/2018	<23	dB(A)
Friday 7/12/2018	<23	dB(A)
Saturday 8/12/2018	<23	dB(A)
Sunday 9/12/2018	<23	dB(A)
Monday 10/12/2018	<23	dB(A)
Tuesday 11/12/2018	25.7	dB(A)
Wednesday 12/12/2018	29.2	dB(A)

Site Diagram - Diagram

Future Freight
Integrating Community, Environment and Engineering

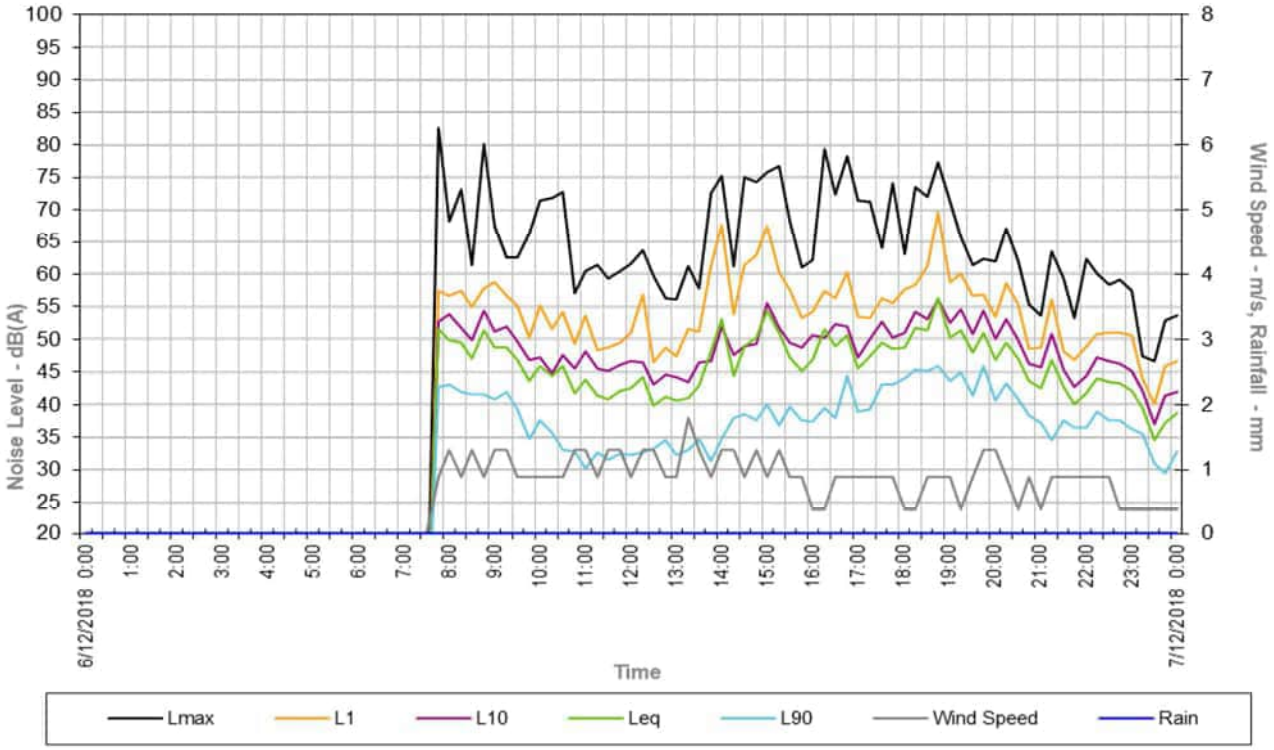
Site Attended Measurements Summary

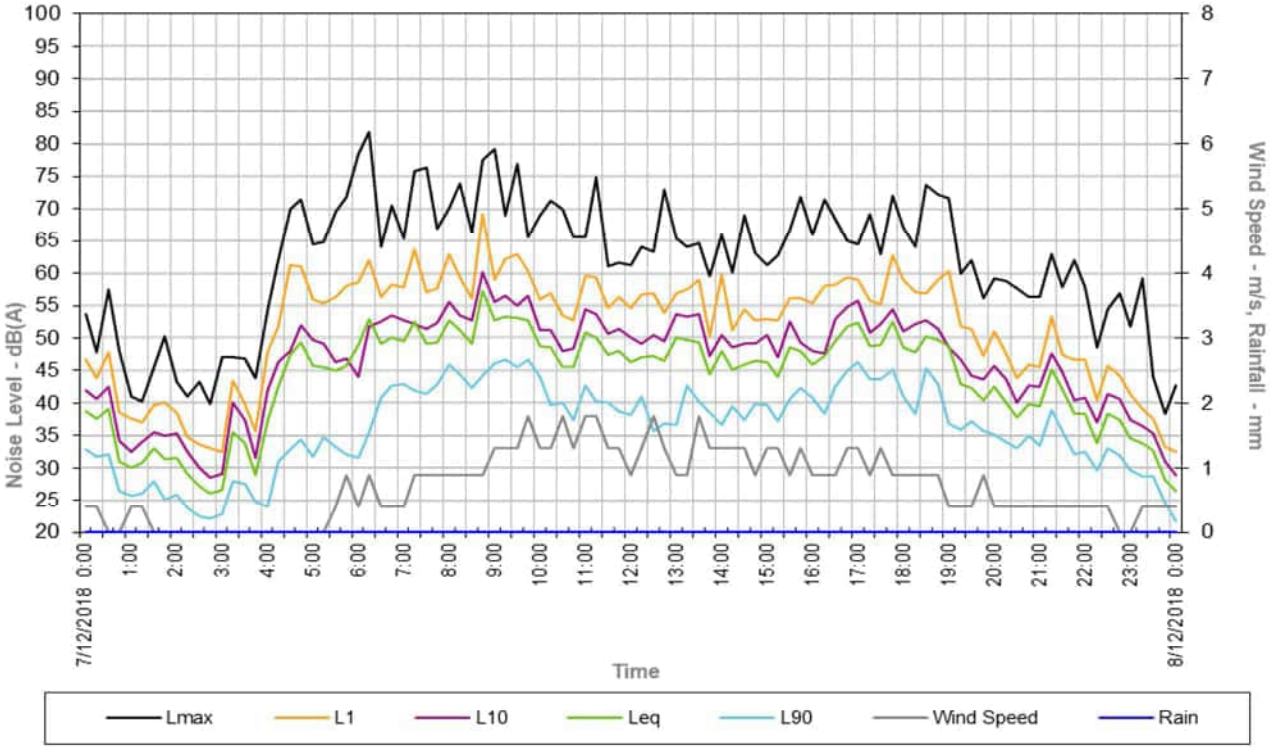
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
6/12/2018	7:30 AM	Attended	81.2	56.9	53.5	42.0	51.8	Pass	7:45 AM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Moderate to heavy gusting winds at 50 dB(A) for most of measurement. Bird noise also clearly audible. Crows at 45-81 dB(A) when wind not blowing. No insect noise audible.								
13/12/2018	7:30 AM	Attended	59.7	53.3	48.3	39.2	45.4	Pass	7:45 AM
		Logged	63.7	54.9	49.9	40.8	47.1		
		Difference	-4.0	-1.6	-1.6	-1.6	-1.7		
Comments	Background is bird noise at 48-59 dB(A) and insect noise 43-45 dB(A). Wind noise in trees at 43 dB(A).								

Photos

Site Noise and Weather Graphical Analysis

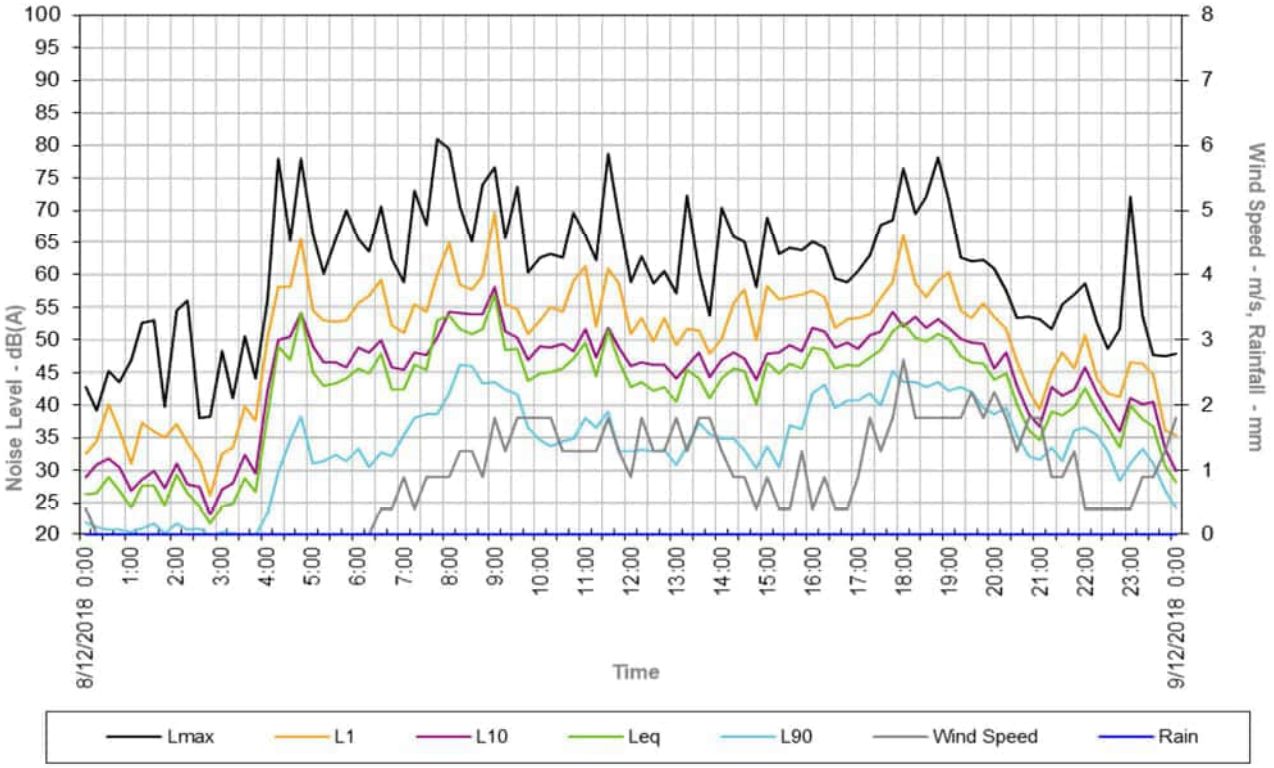
Lovells Crossing Road

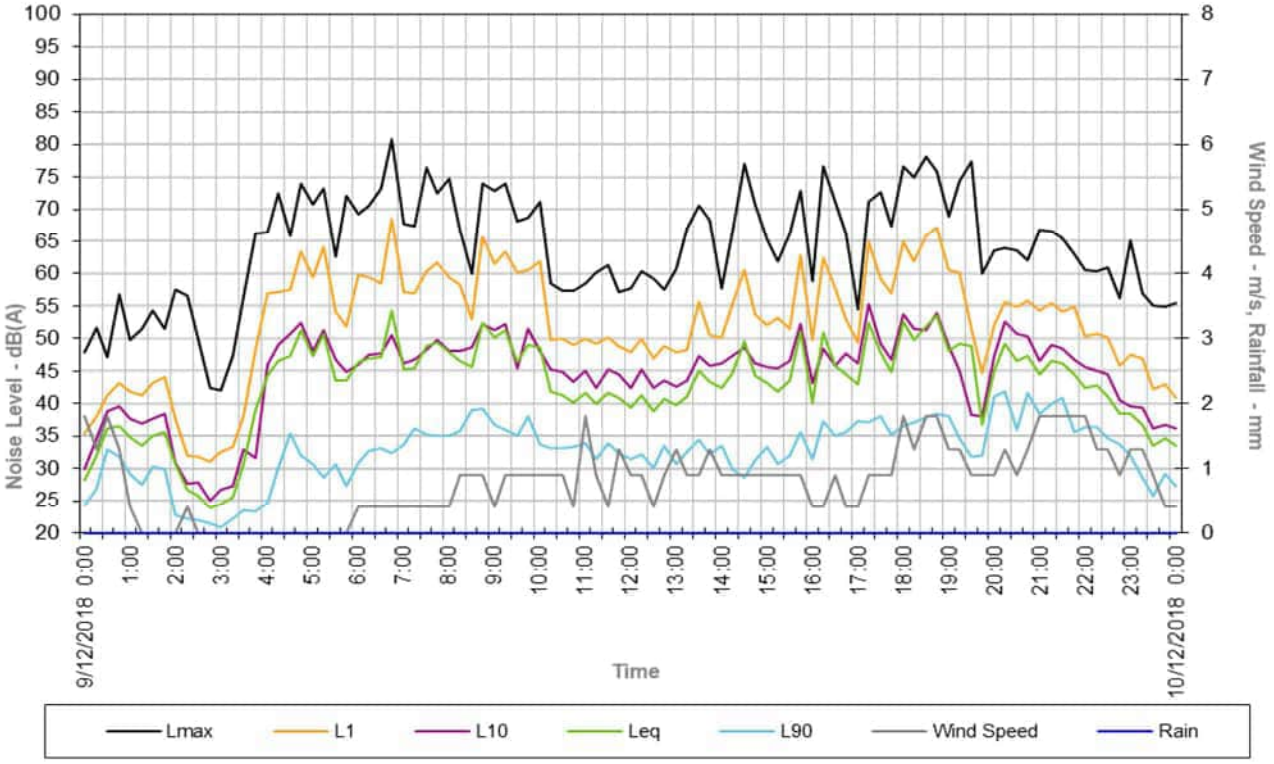




Site Noise and Weather Graphical Analysis

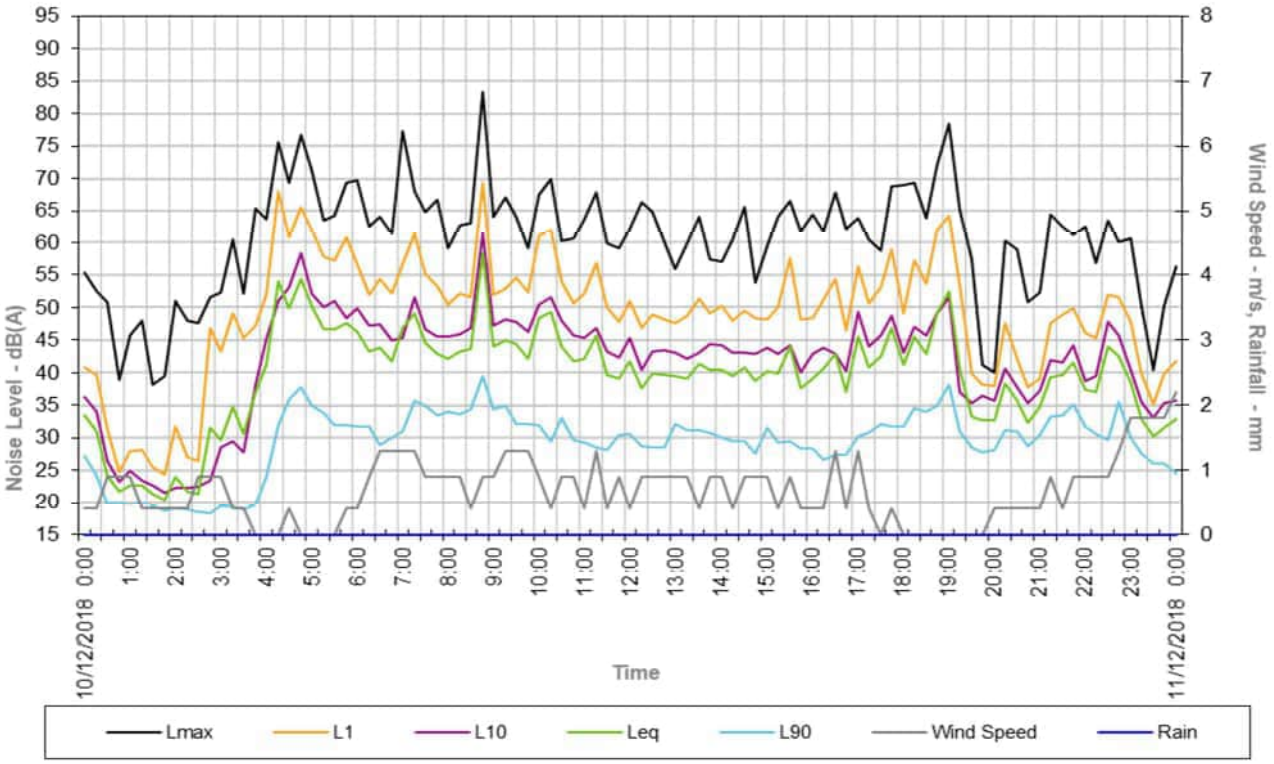
Lovells Crossing Road

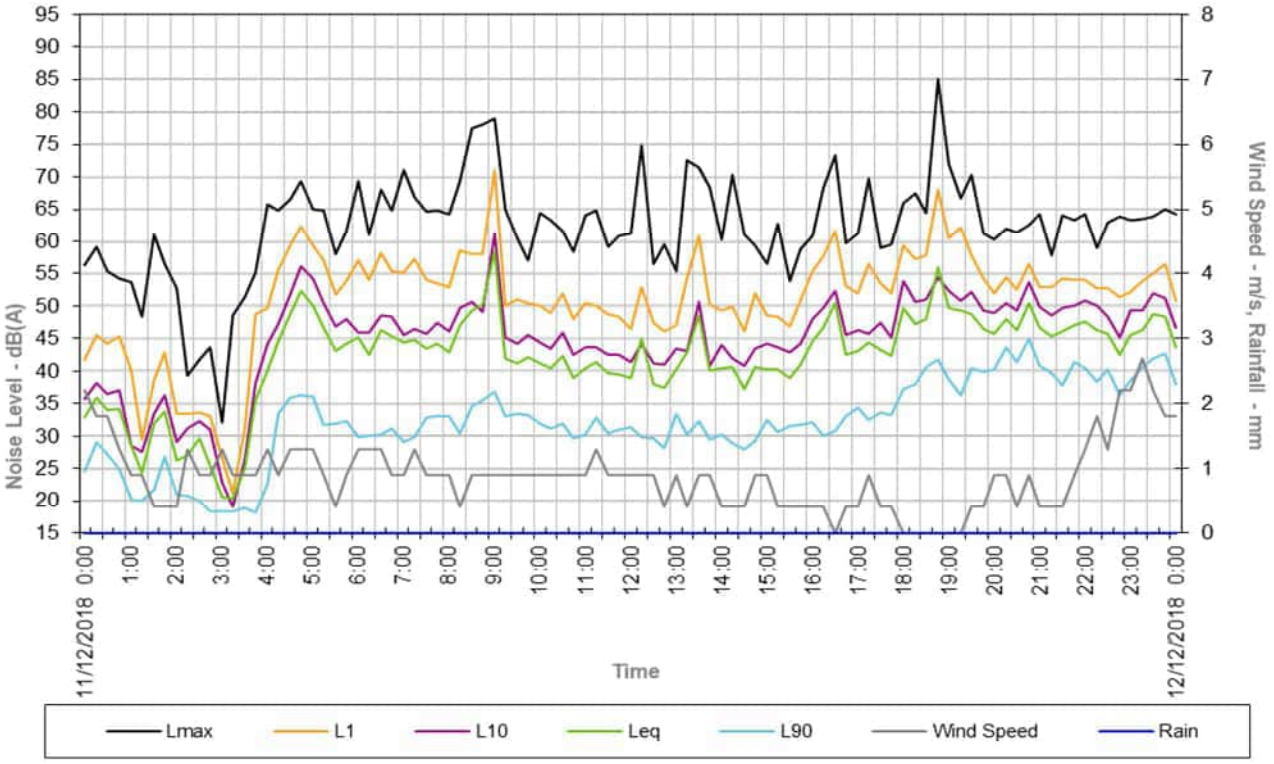




Site Noise and Weather Graphical Analysis

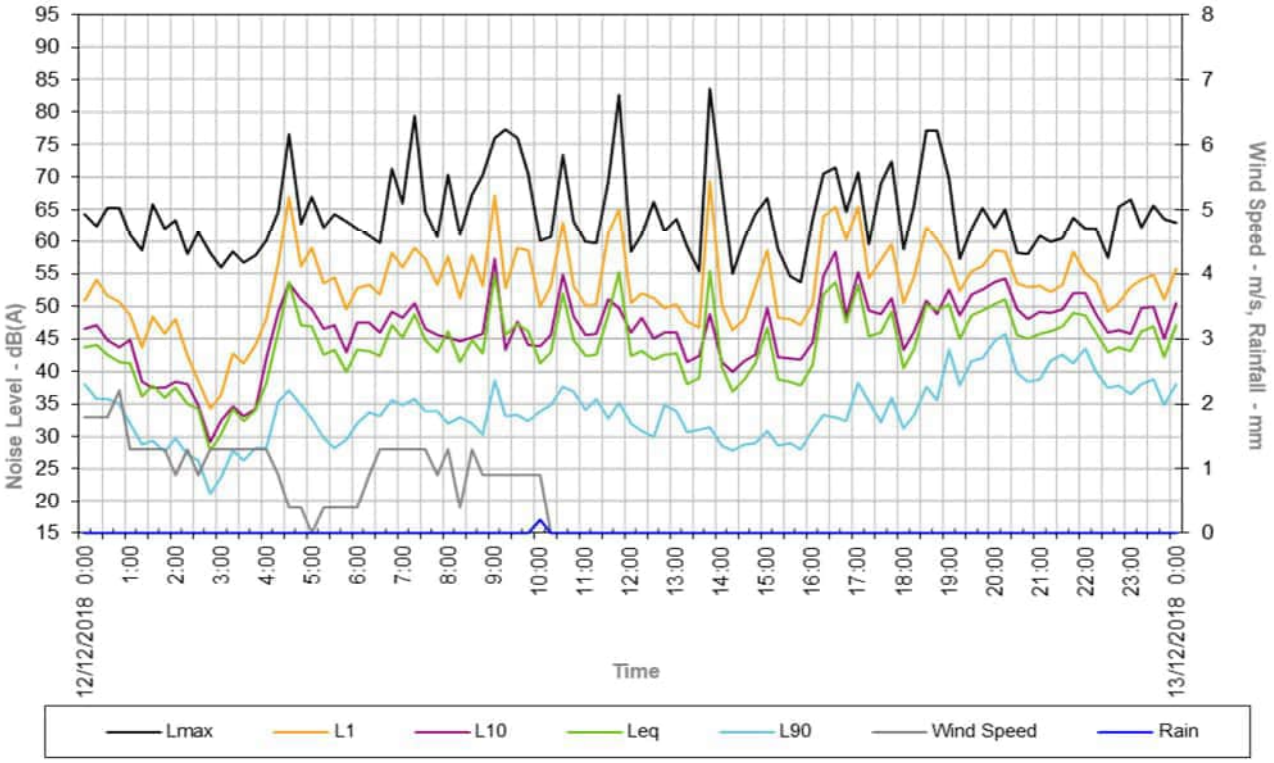
Lovells Crossing Road

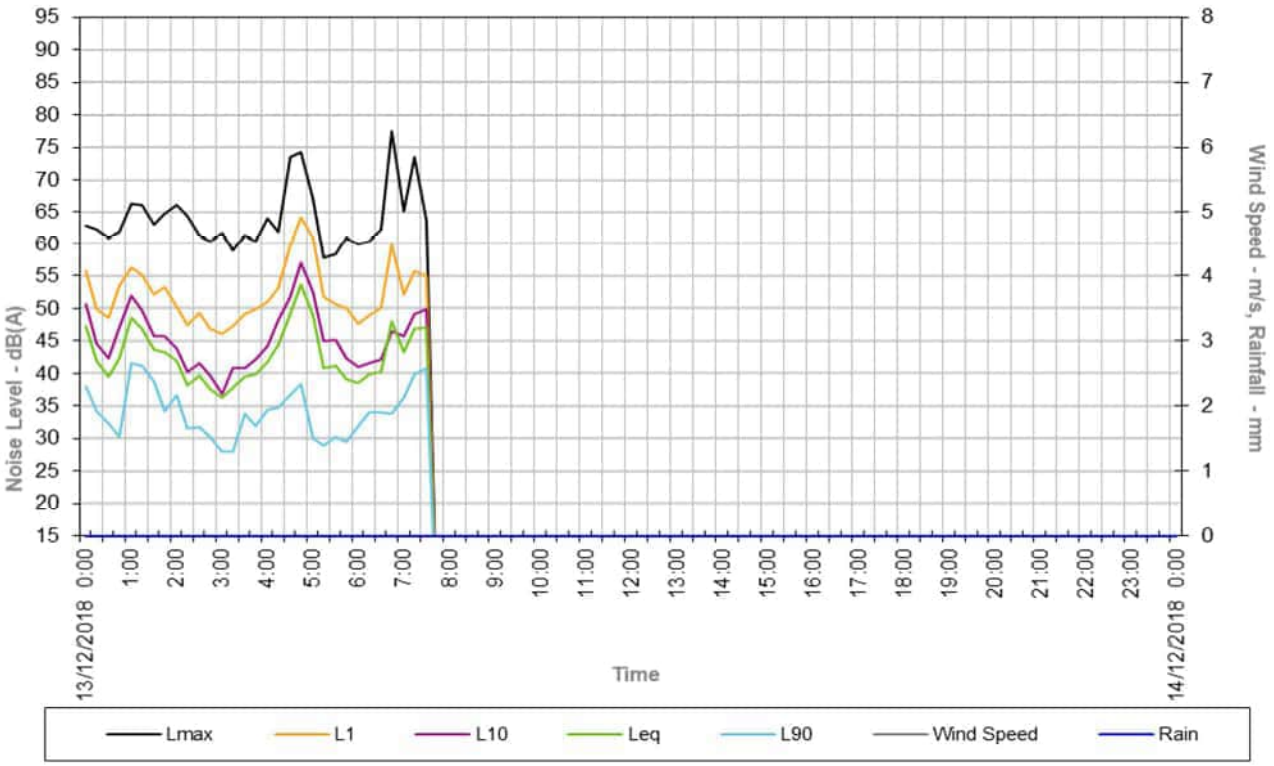




Site Noise and Weather Graphical Analysis

Lovells Crossing Road





Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018 7:45	52	83	57	53	43	0.0	0.9	4.0	225	26	47	745
6/12/2018 8:00	50	68	57	54	43	0.0	1.3	4.9	225	26	47	745
6/12/2018 8:15	50	73	57	52	42	0.0	0.9	4.5	225	27	47	745
6/12/2018 8:30	47	61	55	50	42	0.0	1.3	4.9	135	27	46	745
6/12/2018 8:45	51	80	58	55	42	0.0	0.9	4.0	135	28	45	745
6/12/2018 9:00	49	68	59	51	41	0.0	1.3	4.9	248	28	45	745
6/12/2018 9:15	49	63	57	52	42	0.0	1.3	4.5	158	28	44	745
6/12/2018 9:30	47	63	55	50	39	0.0	0.9	4.9	180	29	42	745
6/12/2018 9:45	44	66	50	47	35	0.0	0.9	4.5	248	30	41	745
6/12/2018 10:00	46	72	55	47	38	0.0	0.9	4.5	248	30	39	745
6/12/2018 10:15	44	72	52	45	36	0.0	0.9	3.1	248	31	37	745
6/12/2018 10:30	46	73	54	48	33	0.0	0.9	4.5	248	31	35	745
6/12/2018 10:45	42	57	49	46	33	0.0	1.3	4.5	135	31	36	745
6/12/2018 11:00	44	61	54	48	30	0.0	1.3	4.9	158	31	35	745
6/12/2018 11:15	41	62	48	46	33	0.0	0.9	3.1	248	32	35	744
6/12/2018 11:30	41	59	49	45	32	0.0	1.3	3.1	135	32	33	744
6/12/2018 11:45	42	61	50	46	33	0.0	1.3	3.1	135	33	33	744
6/12/2018 12:00	43	62	51	47	32	0.0	0.9	2.7	248	33	32	744
6/12/2018 12:15	44	64	57	47	33	0.0	1.3	4.0	158	33	31	744
6/12/2018 12:30	40	60	47	43	33	0.0	1.3	4.9	158	33	30	744
6/12/2018 12:45	41	56	49	45	35	0.0	0.9	4.5	248	34	29	744
6/12/2018 13:00	41	56	48	44	32	0.0	0.9	5.4	158	34	30	743
6/12/2018 13:15	41	61	52	44	33	0.0	1.8	4.0	135	34	29	743
6/12/2018 13:30	43	58	51	46	35	0.0	1.3	4.9	180	34	29	743
6/12/2018 13:45	48	73	61	47	31	0.0	0.9	4.0	135	35	27	743
6/12/2018 14:00	53	75	68	52	35	0.0	1.3	5.4	158	34	28	743
6/12/2018 14:15	45	61	54	48	38	0.0	1.3	4.0	135	34	28	742
6/12/2018 14:30	49	75	61	49	39	0.0	0.9	5.4	158	35	27	742
6/12/2018 14:45	50	74	63	49	38	0.0	1.3	4.5	135	34	27	742
6/12/2018 15:00	54	76	68	56	40	0.0	0.9	4.0	248	34	27	742
6/12/2018 15:15	51	77	60	52	37	0.0	1.3	3.6	248	34	28	742
6/12/2018 15:30	47	68	58	50	40	0.0	0.9	3.1	135	34	26	742
6/12/2018 15:45	45	61	53	49	38	0.0	0.9	3.1	225	34	27	742
6/12/2018 16:00	47	62	54	51	37	0.0	0.4	3.1	248	33	27	742
6/12/2018 16:15	52	79	57	50	40	0.0	0.4	4.5	248	34	27	742
6/12/2018 16:30	49	72	56	52	38	0.0	0.9	3.1	248	33	28	742
6/12/2018 16:45	51	78	60	52	44	0.0	0.9	4.5	203	33	29	742
6/12/2018 17:00	46	71	54	47	39	0.0	0.9	4.0	225	33	29	742
6/12/2018 17:15	48	71	53	50	39	0.0	0.9	4.9	225	32	29	742
6/12/2018 17:30	50	64	56	53	43	0.0	0.9	4.0	225	32	30	742
6/12/2018 17:45	49	74	56	50	43	0.0	0.9	4.0	248	32	30	743
6/12/2018 18:00	49	63	58	51	44	0.0	0.4	5.4	225	31	31	743
6/12/2018 18:15	52	74	58	54	45	0.0	0.4	2.7	225	31	32	743
6/12/2018 18:30	51	72	61	53	45	0.0	0.9	4.9	248	30	34	743
6/12/2018 18:45	56	77	70	56	46	0.0	0.9	4.0	225	29	36	743
6/12/2018 19:00	50	71	59	53	44	0.0	0.9	4.5	248	29	39	743
6/12/2018 19:15	51	66	60	55	45	0.0	0.4	2.7	248	28	41	744
6/12/2018 19:30	48	62	57	51	41	0.0	0.9	4.5	225	27	42	744
6/12/2018 19:45	51	62	57	54	46	0.0	1.3	5.4	225	27	43	744
6/12/2018 20:00	47	62	53	50	41	0.0	1.3	6.7	225	26	45	744
6/12/2018 20:15	50	67	59	53	43	0.0	0.9	4.5	248	26	45	744
6/12/2018 20:30	47	62	55	50	41	0.0	0.4	5.4	225	25	46	744
6/12/2018 20:45	44	55	49	46	38	0.0	0.9	4.5	225	25	48	745
6/12/2018 21:00	43	54	49	46	37	0.0	0.4	4.0	225	25	48	745
6/12/2018 21:15	47	64	56	51	35	0.0	0.9	4.9	248	24	49	745
6/12/2018 21:30	43	59	48	45	38	0.0	0.9	5.4	225	24	50	745
6/12/2018 21:45	40	53	47	43	37	0.0	0.9	4.0	225	24	52	745
6/12/2018 22:00	42	62	49	45	36	0.0	0.9	3.1	113	24	53	745
6/12/2018 22:15	44	60	51	47	39	0.0	0.9	5.8	135	23	54	745
6/12/2018 22:30	44	58	51	47	38	0.0	0.9	5.4	180	23	54	745
6/12/2018 22:45	43	59	51	46	38	0.0	0.4	4.0	180	23	55	745
6/12/2018 23:00	42	58	51	45	36	0.0	0.4	4.5	158	23	56	745
6/12/2018 23:15	40	47	44	42	36	0.0	0.4	2.2	180	22	56	745
6/12/2018 23:30	35	47	40	37	31	0.0	0.4	3.1	203	22	57	745
6/12/2018 23:45	37	53	46	41	30	0.0	0.4	2.7	225	22	58	745
7/12/2018 0:00	39	54	47	42	33	0.0	0.4	2.7	270	22	58	745
7/12/2018 0:15	38	48	44	41	32	0.0	0.4	2.2	180	21	59	745
7/12/2018 0:30	39	58	48	43	32	0.0	0.0	1.8	225	21	59	745
7/12/2018 0:45	31	48	39	34	27	0.0	0.0	3.1	203	21	60	745
7/12/2018 1:00	30	41	38	33	26	0.0	0.4	2.7	203	21	60	745

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018 1:15	31	40	37	34	26	0.0	0.4	1.8	45	21	60	745
7/12/2018 1:30	33	46	40	36	28	0.0	0.0	2.2	180	20	60	745
7/12/2018 1:45	31	50	40	35	25	0.0	0.0	2.2	225	20	60	745
7/12/2018 2:00	32	43	39	35	26	0.0	0.0	2.2	225	20	60	745
7/12/2018 2:15	29	41	35	33	24	0.0	0.0	2.2	203	20	60	745
7/12/2018 2:30	27	43	34	30	23	0.0	0.0	2.7	225	20	60	745
7/12/2018 2:45	26	40	33	29	22	0.0	0.0	1.8	248	20	61	745
7/12/2018 3:00	27	47	33	29	23	0.0	0.0	1.3	203	20	62	745
7/12/2018 3:15	36	47	43	40	28	0.0	0.0	0.4	248	19	63	745
7/12/2018 3:30	34	47	40	37	28	0.0	0.0	0.0	0	19	64	745
7/12/2018 3:45	29	44	36	32	25	0.0	0.0	0.9	248	18	65	745
7/12/2018 4:00	37	54	48	42	24	0.0	0.0	0.9	270	18	66	745
7/12/2018 4:15	43	62	52	46	31	0.0	0.0	0.9	225	18	66	745
7/12/2018 4:30	47	70	61	48	33	0.0	0.0	0.4	225	18	66	745
7/12/2018 4:45	49	72	61	52	34	0.0	0.0	0.9	225	18	66	745
7/12/2018 5:00	46	65	56	50	32	0.0	0.0	1.3	225	18	67	745
7/12/2018 5:15	46	65	55	49	35	0.0	0.0	1.3	225	18	67	745
7/12/2018 5:30	45	70	56	46	33	0.0	0.4	2.2	248	19	66	745
7/12/2018 5:45	46	72	58	47	32	0.0	0.9	2.2	248	19	64	745
7/12/2018 6:00	49	78	59	44	32	0.0	0.4	2.2	248	20	63	745
7/12/2018 6:15	53	82	62	52	36	0.0	0.9	3.1	45	21	60	746
7/12/2018 6:30	49	64	56	53	41	0.0	0.4	2.7	248	22	57	746
7/12/2018 6:45	50	71	58	54	43	0.0	0.4	3.1	248	23	56	746
7/12/2018 7:00	50	65	58	53	43	0.0	0.4	2.7	248	24	54	746
7/12/2018 7:15	53	76	64	52	42	0.0	0.9	2.7	225	25	53	746
7/12/2018 7:30	49	76	57	51	41	0.0	0.9	4.9	248	25	52	746
7/12/2018 7:45	49	67	58	52	43	0.0	0.9	4.5	225	26	50	746
7/12/2018 8:00	53	70	63	56	46	0.0	0.9	3.1	248	27	47	746
7/12/2018 8:15	51	74	59	53	45	0.0	0.9	3.1	203	27	47	746
7/12/2018 8:30	49	66	56	53	42	0.0	0.9	4.5	248	28	44	746
7/12/2018 8:45	57	78	69	60	44	0.0	0.9	4.5	248	28	40	746
7/12/2018 9:00	53	79	59	56	46	0.0	1.3	5.8	180	29	38	746
7/12/2018 9:15	53	69	62	57	47	0.0	1.3	4.0	248	29	37	746
7/12/2018 9:30	53	77	63	55	46	0.0	1.3	4.5	248	30	36	746
7/12/2018 9:45	53	66	60	57	47	0.0	1.8	5.8	135	29	36	746
7/12/2018 10:00	49	69	56	51	44	0.0	1.3	6.3	248	30	37	746
7/12/2018 10:15	49	71	57	51	40	0.0	1.3	5.4	248	30	38	746
7/12/2018 10:30	46	70	54	48	40	0.0	1.8	4.9	248	31	37	745
7/12/2018 10:45	46	66	53	48	37	0.0	1.3	7.2	248	31	37	745
7/12/2018 11:00	51	66	60	54	43	0.0	1.8	4.9	135	30	38	745
7/12/2018 11:15	50	75	59	54	40	0.0	1.8	4.5	135	30	38	745
7/12/2018 11:30	47	61	55	51	40	0.0	1.3	4.5	158	31	36	745
7/12/2018 11:45	48	62	56	52	39	0.0	1.3	5.4	135	31	35	745
7/12/2018 12:00	46	61	55	50	38	0.0	0.9	4.0	248	32	34	745
7/12/2018 12:15	47	64	57	49	41	0.0	1.3	8.5	135	32	33	745
7/12/2018 12:30	47	63	57	51	36	0.0	1.8	6.3	135	32	33	744
7/12/2018 12:45	47	73	54	50	37	0.0	1.3	4.5	225	33	33	744
7/12/2018 13:00	50	65	57	54	37	0.0	0.9	4.0	248	33	32	744
7/12/2018 13:15	50	64	58	53	43	0.0	0.9	5.8	248	33	33	744
7/12/2018 13:30	49	65	59	54	40	0.0	1.8	4.5	248	33	33	744
7/12/2018 13:45	45	60	50	47	39	0.0	1.3	4.0	248	33	32	744
7/12/2018 14:00	48	66	60	50	37	0.0	1.3	6.7	248	33	31	743
7/12/2018 14:15	45	60	51	49	40	0.0	1.3	5.8	248	33	32	743
7/12/2018 14:30	46	69	54	49	38	0.0	1.3	4.0	225	33	32	743
7/12/2018 14:45	47	63	53	49	40	0.0	0.9	5.4	225	33	32	743
7/12/2018 15:00	46	61	53	51	40	0.0	1.3	5.8	135	32	31	743
7/12/2018 15:15	44	63	53	47	37	0.0	1.3	4.5	248	32	31	743
7/12/2018 15:30	49	67	56	53	41	0.0	0.9	5.8	248	32	31	743
7/12/2018 15:45	48	72	56	49	42	0.0	1.3	4.0	293	32	32	743
7/12/2018 16:00	46	66	55	48	41	0.0	0.9	3.6	225	32	32	743
7/12/2018 16:15	47	72	58	48	38	0.0	0.9	4.5	225	32	32	742
7/12/2018 16:30	50	69	58	53	43	0.0	0.9	4.5	225	32	33	743
7/12/2018 16:45	52	65	59	55	45	0.0	1.3	4.9	248	31	34	742
7/12/2018 17:00	52	65	59	56	46	0.0	1.3	4.9	225	31	35	743
7/12/2018 17:15	49	69	56	51	44	0.0	0.9	4.5	225	31	35	743
7/12/2018 17:30	49	63	55	52	44	0.0	1.3	4.9	135	30	37	743
7/12/2018 17:45	53	72	63	54	45	0.0	0.9	5.8	248	30	38	743
7/12/2018 18:00	49	67	59	51	41	0.0	0.9	4.5	225	29	40	743
7/12/2018 18:15	48	64	57	52	38	0.0	0.9	3.1	225	28	41	744
7/12/2018 18:30	50	74	57	53	45	0.0	0.9	4.5	248	28	41	744

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018	18:45	50	72	59	51	43	0.0	0.9	4.5	248	27	41	744
7/12/2018	19:00	49	72	60	49	37	0.0	0.4	2.7	225	27	42	744
7/12/2018	19:15	43	60	52	47	36	0.0	0.4	2.7	225	27	44	744
7/12/2018	19:30	42	62	52	44	37	0.0	0.4	3.1	225	26	45	744
7/12/2018	19:45	41	56	47	44	36	0.0	0.9	3.1	225	26	45	745
7/12/2018	20:00	43	59	51	46	35	0.0	0.4	3.1	248	26	45	745
7/12/2018	20:15	40	59	48	44	34	0.0	0.4	3.1	225	26	47	745
7/12/2018	20:30	38	58	44	40	33	0.0	0.4	3.1	180	25	48	745
7/12/2018	20:45	40	56	46	43	35	0.0	0.4	4.0	248	25	49	745
7/12/2018	21:00	40	56	46	43	34	0.0	0.4	2.2	225	25	50	745
7/12/2018	21:15	45	63	53	48	39	0.0	0.4	2.2	225	24	53	745
7/12/2018	21:30	42	58	47	45	36	0.0	0.4	1.8	225	24	53	745
7/12/2018	21:45	38	62	47	40	32	0.0	0.4	2.7	248	24	53	746
7/12/2018	22:00	38	58	47	41	33	0.0	0.4	2.7	248	24	55	746
7/12/2018	22:15	34	49	41	37	30	0.0	0.4	2.7	248	23	55	746
7/12/2018	22:30	38	54	46	41	33	0.0	0.4	3.1	225	23	56	746
7/12/2018	22:45	37	57	44	41	32	0.0	0.0	1.3	225	23	57	746
7/12/2018	23:00	35	52	41	38	30	0.0	0.0	1.8	248	23	58	746
7/12/2018	23:15	34	59	39	36	29	0.0	0.4	4.5	248	22	59	746
7/12/2018	23:30	33	44	38	35	29	0.0	0.4	4.9	248	22	59	746
7/12/2018	23:45	28	38	33	31	25	0.0	0.4	4.0	248	22	60	746
8/12/2018	0:00	26	43	33	29	22	0.0	0.4	2.7	225	22	60	746
8/12/2018	0:15	27	39	34	31	21	0.0	0.0	1.8	203	22	61	746
8/12/2018	0:30	29	45	40	32	21	0.0	0.0	1.3	225	21	62	745
8/12/2018	0:45	27	44	36	31	21	0.0	0.0	1.3	180	21	64	745
8/12/2018	1:00	24	47	31	27	20	0.0	0.0	0.9	225	21	65	745
8/12/2018	1:15	28	53	37	29	21	0.0	0.0	0.9	203	21	65	745
8/12/2018	1:30	28	53	36	30	22	0.0	0.0	0.9	248	20	66	745
8/12/2018	1:45	25	40	35	27	20	0.0	0.0	1.8	248	20	67	745
8/12/2018	2:00	29	55	37	31	22	0.0	0.0	0.9	135	20	67	745
8/12/2018	2:15	27	56	34	28	21	0.0	0.0	0.4	270	20	67	745
8/12/2018	2:30	25	38	32	27	21	0.0	0.0	0.0	0	19	68	745
8/12/2018	2:45	22	38	26	23	20	0.0	0.0	0.4	270	19	68	745
8/12/2018	3:00	24	48	33	27	20	0.0	0.0	0.9	270	19	68	745
8/12/2018	3:15	25	41	34	28	20	0.0	0.0	0.0	0	19	70	745
8/12/2018	3:30	29	51	40	32	20	0.0	0.0	0.0	0	19	71	745
8/12/2018	3:45	27	44	38	30	20	0.0	0.0	0.0	0	19	70	745
8/12/2018	4:00	39	56	50	42	23	0.0	0.0	0.0	0	18	71	745
8/12/2018	4:15	49	78	58	50	30	0.0	0.0	0.0	0	18	71	745
8/12/2018	4:30	47	65	58	51	35	0.0	0.0	0.4	270	18	71	745
8/12/2018	4:45	54	78	65	54	38	0.0	0.0	0.0	0	18	72	745
8/12/2018	5:00	45	66	55	49	31	0.0	0.0	0.0	0	18	73	746
8/12/2018	5:15	43	60	53	47	32	0.0	0.0	0.0	0	18	72	746
8/12/2018	5:30	43	65	53	47	32	0.0	0.0	0.0	0	18	72	746
8/12/2018	5:45	44	70	53	46	32	0.0	0.0	0.4	270	19	69	746
8/12/2018	6:00	46	66	56	49	33	0.0	0.0	0.4	270	20	67	746
8/12/2018	6:15	45	64	57	48	31	0.0	0.0	1.3	270	22	63	746
8/12/2018	6:30	48	71	59	50	33	0.0	0.4	2.7	248	23	60	746
8/12/2018	6:45	42	62	52	46	32	0.0	0.4	4.0	248	23	58	746
8/12/2018	7:00	43	59	51	46	35	0.0	0.9	3.1	248	24	55	746
8/12/2018	7:15	46	73	56	48	38	0.0	0.4	2.2	225	25	54	746
8/12/2018	7:30	45	68	54	48	39	0.0	0.9	4.5	225	25	53	746
8/12/2018	7:45	53	81	60	50	39	0.0	0.9	4.5	248	26	52	746
8/12/2018	8:00	54	79	65	54	42	0.0	0.9	4.0	248	27	48	746
8/12/2018	8:15	52	71	58	54	46	0.0	1.3	4.5	248	27	48	746
8/12/2018	8:30	51	65	58	54	46	0.0	1.3	4.5	135	27	49	746
8/12/2018	8:45	52	74	60	54	43	0.0	0.9	2.7	135	27	48	746
8/12/2018	9:00	57	77	70	58	44	0.0	1.8	5.4	158	28	45	746
8/12/2018	9:15	49	66	56	51	42	0.0	1.3	4.9	113	29	43	746
8/12/2018	9:30	49	74	55	50	42	0.0	1.8	5.8	135	29	42	745
8/12/2018	9:45	44	60	51	47	37	0.0	1.8	5.4	135	29	41	745
8/12/2018	10:00	45	63	53	49	35	0.0	1.8	7.2	135	30	40	745
8/12/2018	10:15	45	63	55	49	34	0.0	1.8	4.9	135	30	39	745
8/12/2018	10:30	46	63	54	49	35	0.0	1.3	4.9	225	31	38	745
8/12/2018	10:45	47	70	59	48	35	0.0	1.3	4.5	225	31	37	745
8/12/2018	11:00	50	66	61	52	38	0.0	1.3	4.5	248	32	36	745
8/12/2018	11:15	45	62	52	47	37	0.0	1.3	6.7	135	32	37	744
8/12/2018	11:30	51	79	61	52	39	0.0	1.8	5.4	135	31	36	744
8/12/2018	11:45	47	69	59	49	33	0.0	1.3	5.4	135	32	35	744
8/12/2018	12:00	43	59	51	46	33	0.0	0.9	3.6	135	33	34	744

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Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	12:15	44	63	53	47	33	0.0	1.8	4.5	135	33	34	744
8/12/2018	12:30	42	59	50	46	33	0.0	1.3	4.5	135	33	33	743
8/12/2018	12:45	43	61	53	46	33	0.0	1.3	5.4	135	34	32	743
8/12/2018	13:00	41	57	49	44	31	0.0	1.8	7.6	135	34	31	743
8/12/2018	13:15	46	72	52	46	34	0.0	1.3	4.5	158	34	31	743
8/12/2018	13:30	44	61	51	48	37	0.0	1.8	5.4	158	34	30	743
8/12/2018	13:45	41	54	48	44	36	0.0	1.8	4.5	158	34	31	743
8/12/2018	14:00	44	70	50	47	35	0.0	1.3	4.5	135	35	32	742
8/12/2018	14:15	46	66	56	48	35	0.0	0.9	3.1	248	34	32	742
8/12/2018	14:30	45	65	58	47	33	0.0	0.9	2.7	248	34	31	742
8/12/2018	14:45	40	58	50	44	30	0.0	0.4	2.2	315	35	31	742
8/12/2018	15:00	47	69	58	48	34	0.0	0.9	4.9	248	34	32	742
8/12/2018	15:15	45	63	56	48	31	0.0	0.4	4.0	270	34	32	742
8/12/2018	15:30	46	64	57	49	37	0.0	0.4	2.7	158	34	32	742
8/12/2018	15:45	46	64	57	48	36	0.0	1.3	3.1	248	34	33	742
8/12/2018	16:00	49	65	58	52	42	0.0	0.4	4.0	248	33	34	742
8/12/2018	16:15	48	64	57	51	43	0.0	0.9	3.6	248	34	34	742
8/12/2018	16:30	46	60	52	49	40	0.0	0.4	3.1	248	33	34	741
8/12/2018	16:45	46	59	53	50	41	0.0	0.4	2.2	135	34	34	741
8/12/2018	17:00	46	61	53	49	41	0.0	0.9	4.0	135	34	33	742
8/12/2018	17:15	47	63	54	51	42	0.0	1.8	5.4	158	33	36	742
8/12/2018	17:30	49	68	56	51	40	0.0	1.3	4.5	135	32	38	742
8/12/2018	17:45	51	68	59	54	45	0.0	1.8	4.9	135	32	39	742
8/12/2018	18:00	53	77	66	52	44	0.0	2.7	6.7	135	31	40	742
8/12/2018	18:15	50	69	59	54	44	0.0	1.8	4.5	135	31	41	743
8/12/2018	18:30	50	72	57	52	43	0.0	1.8	5.4	135	30	42	743
8/12/2018	18:45	51	78	59	53	44	0.0	1.8	5.8	135	30	43	743
8/12/2018	19:00	50	72	60	52	42	0.0	1.8	7.2	135	29	45	743
8/12/2018	19:15	48	63	55	50	43	0.0	1.8	5.8	135	28	46	744
8/12/2018	19:30	47	62	53	50	42	0.0	2.2	7.6	135	28	48	744
8/12/2018	19:45	46	62	56	49	40	0.0	1.8	5.8	135	27	48	744
8/12/2018	20:00	44	61	54	46	39	0.0	2.2	6.3	135	27	49	744
8/12/2018	20:15	45	58	52	48	40	0.0	1.8	5.4	135	27	49	744
8/12/2018	20:30	40	53	47	43	36	0.0	1.3	4.9	135	26	49	744
8/12/2018	20:45	36	54	42	39	32	0.0	1.8	4.9	135	26	50	745
8/12/2018	21:00	35	53	39	37	32	0.0	1.8	5.4	135	26	51	745
8/12/2018	21:15	39	52	45	43	34	0.0	0.9	5.4	158	26	51	745
8/12/2018	21:30	39	55	48	42	32	0.0	0.9	5.4	135	25	51	745
8/12/2018	21:45	40	57	46	42	36	0.0	1.3	4.5	135	25	52	745
8/12/2018	22:00	43	59	51	46	37	0.0	0.4	2.7	180	25	53	745
8/12/2018	22:15	39	53	44	42	35	0.0	0.4	2.7	135	25	54	745
8/12/2018	22:30	37	49	42	39	33	0.0	0.4	2.7	135	24	55	744
8/12/2018	22:45	34	52	41	36	28	0.0	0.4	3.1	158	24	56	744
8/12/2018	23:00	40	72	47	41	31	0.0	0.4	4.9	113	24	57	744
8/12/2018	23:15	38	54	46	40	33	0.0	0.9	4.0	135	24	58	744
8/12/2018	23:30	37	48	45	41	31	0.0	0.9	4.0	135	23	59	744
8/12/2018	23:45	31	48	36	33	27	0.0	1.3	4.5	135	23	59	744
9/12/2018	0:00	28	48	35	30	24	0.0	1.8	4.9	135	23	60	744
9/12/2018	0:15	32	52	38	35	27	0.0	1.3	3.1	135	23	61	744
9/12/2018	0:30	36	47	41	39	33	0.0	1.8	4.5	135	23	62	744
9/12/2018	0:45	37	57	43	40	32	0.0	1.3	3.1	135	23	62	744
9/12/2018	1:00	35	50	42	38	29	0.0	0.4	4.9	135	22	62	744
9/12/2018	1:15	34	52	41	37	27	0.0	0.0	1.3	180	22	63	744
9/12/2018	1:30	35	54	43	38	30	0.0	0.0	0.9	293	22	64	744
9/12/2018	1:45	36	51	44	39	30	0.0	0.0	0.4	180	21	65	744
9/12/2018	2:00	31	58	38	31	23	0.0	0.0	2.7	158	21	65	743
9/12/2018	2:15	27	57	32	28	22	0.0	0.4	2.2	113	21	65	743
9/12/2018	2:30	26	50	32	28	22	0.0	0.0	1.8	225	21	66	743
9/12/2018	2:45	24	42	31	25	22	0.0	0.0	0.9	158	21	67	743
9/12/2018	3:00	25	42	33	27	21	0.0	0.0	0.0	0	20	68	743
9/12/2018	3:15	26	47	33	27	22	0.0	0.0	0.4	203	20	69	743
9/12/2018	3:30	31	56	38	33	24	0.0	0.0	0.0	0	20	71	743
9/12/2018	3:45	39	66	48	32	23	0.0	0.0	0.0	0	20	71	743
9/12/2018	4:00	44	66	57	46	25	0.0	0.0	0.0	0	19	72	744
9/12/2018	4:15	47	72	57	49	30	0.0	0.0	0.0	0	19	72	744
9/12/2018	4:30	47	66	58	51	35	0.0	0.0	0.0	0	19	73	744
9/12/2018	4:45	51	74	63	53	32	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:00	47	71	59	48	31	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:15	51	73	64	51	29	0.0	0.0	0.4	203	19	74	744
9/12/2018	5:30	44	63	54	47	31	0.0	0.0	1.3	203	19	73	744

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Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	5:45	44	72	52	45	27	0.0	0.0	1.3	225	20	71	744
9/12/2018	6:00	46	69	60	46	31	0.0	0.4	1.8	248	21	69	744
9/12/2018	6:15	47	71	59	48	33	0.0	0.4	2.2	248	22	65	744
9/12/2018	6:30	47	73	59	48	33	0.0	0.4	2.7	248	23	62	744
9/12/2018	6:45	54	81	68	51	32	0.0	0.4	2.7	248	24	59	744
9/12/2018	7:00	45	68	57	46	34	0.0	0.4	2.2	248	25	56	744
9/12/2018	7:15	46	67	57	47	36	0.0	0.4	2.7	248	25	55	744
9/12/2018	7:30	49	77	60	48	35	0.0	0.4	2.2	248	27	53	744
9/12/2018	7:45	49	72	62	50	35	0.0	0.4	2.2	203	27	51	744
9/12/2018	8:00	48	75	59	48	35	0.0	0.4	2.2	225	28	50	744
9/12/2018	8:15	47	67	58	48	36	0.0	0.9	4.5	135	27	52	744
9/12/2018	8:30	46	60	53	49	39	0.0	0.9	3.1	158	28	49	744
9/12/2018	8:45	52	74	66	52	39	0.0	0.9	2.7	135	29	48	744
9/12/2018	9:00	50	73	62	51	37	0.0	0.4	3.1	203	30	46	744
9/12/2018	9:15	51	74	63	52	36	0.0	0.9	3.1	135	30	45	744
9/12/2018	9:30	46	68	60	46	35	0.0	0.9	4.0	135	31	44	744
9/12/2018	9:45	49	69	61	51	38	0.0	0.9	4.9	180	31	42	744
9/12/2018	10:00	49	71	62	48	34	0.0	0.9	4.5	135	32	40	743
9/12/2018	10:15	42	58	50	45	33	0.0	0.9	4.5	158	32	40	743
9/12/2018	10:30	41	57	50	45	33	0.0	0.9	3.1	135	33	38	743
9/12/2018	10:45	40	57	49	43	33	0.0	0.4	2.7	135	34	36	743
9/12/2018	11:00	42	58	50	45	34	0.0	1.8	4.9	135	33	37	743
9/12/2018	11:15	40	60	49	43	31	0.0	0.9	2.7	180	34	36	743
9/12/2018	11:30	42	61	50	45	34	0.0	0.4	2.7	248	35	34	742
9/12/2018	11:45	41	57	49	44	32	0.0	1.3	4.0	248	35	34	742
9/12/2018	12:00	39	58	48	43	31	0.0	0.9	6.3	135	35	33	742
9/12/2018	12:15	41	60	50	45	32	0.0	0.9	3.1	135	35	32	742
9/12/2018	12:30	39	59	47	42	30	0.0	0.4	3.1	113	36	32	742
9/12/2018	12:45	41	58	49	44	34	0.0	0.9	3.1	225	36	32	742
9/12/2018	13:00	40	61	48	43	31	0.0	1.3	4.9	135	36	31	741
9/12/2018	13:15	41	67	48	44	33	0.0	0.9	4.9	248	36	30	741
9/12/2018	13:30	45	71	56	47	34	0.0	0.9	4.5	135	36	30	741
9/12/2018	13:45	43	68	51	46	32	0.0	1.3	3.1	135	36	30	741
9/12/2018	14:00	43	58	50	46	34	0.0	0.9	6.3	248	36	30	741
9/12/2018	14:15	45	66	55	47	30	0.0	0.9	3.1	315	36	29	740
9/12/2018	14:30	50	77	61	49	29	0.0	0.9	2.7	135	36	30	740
9/12/2018	14:45	44	71	54	46	31	0.0	0.9	4.5	248	37	29	740
9/12/2018	15:00	43	65	52	46	33	0.0	0.9	3.1	135	36	30	740
9/12/2018	15:15	42	62	53	46	31	0.0	0.9	5.8	270	37	28	740
9/12/2018	15:30	44	66	52	47	32	0.0	0.9	3.1	135	37	27	740
9/12/2018	15:45	51	73	63	52	36	0.0	0.9	2.7	315	35	29	739
9/12/2018	16:00	40	59	50	43	32	0.0	0.4	4.0	180	36	28	739
9/12/2018	16:15	51	77	63	49	37	0.0	0.4	2.2	248	36	27	739
9/12/2018	16:30	46	71	58	46	35	0.0	0.9	4.9	203	36	27	739
9/12/2018	16:45	45	66	53	48	36	0.0	0.4	3.1	248	36	27	739
9/12/2018	17:00	43	55	49	46	37	0.0	0.4	2.7	248	36	28	739
9/12/2018	17:15	52	71	65	55	37	0.0	0.9	4.5	135	35	28	739
9/12/2018	17:30	48	73	59	49	38	0.0	0.9	3.1	135	35	29	739
9/12/2018	17:45	45	67	57	47	35	0.0	0.9	4.5	135	35	30	740
9/12/2018	18:00	53	77	65	54	37	0.0	1.8	5.4	135	34	30	740
9/12/2018	18:15	50	75	62	52	37	0.0	1.3	4.0	135	34	30	740
9/12/2018	18:30	52	78	66	51	38	0.0	1.8	4.9	135	33	31	740
9/12/2018	18:45	54	76	67	54	38	0.0	1.8	4.5	135	33	31	740
9/12/2018	19:00	48	69	61	49	38	0.0	1.3	3.1	135	33	32	740
9/12/2018	19:15	49	74	60	45	35	0.0	1.3	3.6	135	32	32	740
9/12/2018	19:30	49	77	52	38	32	0.0	0.9	2.7	135	32	33	740
9/12/2018	19:45	37	60	45	38	32	0.0	0.9	2.2	135	32	34	741
9/12/2018	20:00	45	64	52	47	41	0.0	0.9	2.7	135	31	35	741
9/12/2018	20:15	49	64	56	53	42	0.0	1.3	2.7	135	31	36	741
9/12/2018	20:30	47	64	55	51	36	0.0	0.9	3.1	135	31	36	741
9/12/2018	20:45	47	62	56	50	42	0.0	1.3	4.5	135	30	38	741
9/12/2018	21:00	44	67	54	47	38	0.0	1.8	4.5	135	30	41	741
9/12/2018	21:15	47	67	56	49	40	0.0	1.8	4.9	135	29	43	742
9/12/2018	21:30	46	66	54	49	41	0.0	1.8	4.5	135	29	47	742
9/12/2018	21:45	44	63	55	47	36	0.0	1.8	4.9	135	28	50	742
9/12/2018	22:00	42	61	50	46	36	0.0	1.8	4.5	135	28	52	742
9/12/2018	22:15	43	60	51	45	36	0.0	1.3	3.1	135	27	53	742
9/12/2018	22:30	41	61	50	44	35	0.0	1.3	4.5	135	27	54	743
9/12/2018	22:45	38	56	46	41	34	0.0	0.9	2.7	135	27	55	743
9/12/2018	23:00	39	65	48	40	32	0.0	1.3	4.5	135	26	56	743

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	23:15	37	57	47	39	29	0.0	1.3	4.5	135	26	57	743
9/12/2018	23:30	34	55	42	36	26	0.0	0.9	2.2	135	26	59	743
9/12/2018	23:45	35	55	43	37	29	0.0	0.4	3.1	135	26	59	743
10/12/2018	0:00	34	55	41	36	27	0.0	0.4	2.7	135	25	60	743
10/12/2018	0:15	31	53	40	34	24	0.0	0.4	2.2	158	25	61	743
10/12/2018	0:30	24	51	31	27	20	0.0	0.9	3.1	135	25	62	742
10/12/2018	0:45	22	39	25	23	20	0.0	0.9	2.7	135	25	63	742
10/12/2018	1:00	23	46	28	25	20	0.0	0.9	2.7	135	24	64	742
10/12/2018	1:15	23	48	28	23	20	0.0	0.4	2.2	158	24	65	742
10/12/2018	1:30	21	38	26	23	19	0.0	0.4	1.8	135	24	65	742
10/12/2018	1:45	20	39	24	22	19	0.0	0.4	1.8	135	24	66	742
10/12/2018	2:00	24	51	32	22	19	0.0	0.4	1.8	135	23	67	742
10/12/2018	2:15	22	48	27	22	19	0.0	0.4	4.0	135	23	68	742
10/12/2018	2:30	21	48	26	22	19	0.0	0.9	2.2	135	23	67	742
10/12/2018	2:45	32	52	47	24	18	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:00	30	52	43	29	20	0.0	0.9	2.7	135	23	68	742
10/12/2018	3:15	35	60	49	30	19	0.0	0.4	2.2	158	23	69	742
10/12/2018	3:30	31	52	45	28	19	0.0	0.4	2.2	158	22	69	742
10/12/2018	3:45	37	65	47	38	20	0.0	0.0	1.3	158	22	70	742
10/12/2018	4:00	41	64	52	45	24	0.0	0.0	1.3	158	22	71	742
10/12/2018	4:15	54	76	68	51	32	0.0	0.0	1.8	135	22	71	742
10/12/2018	4:30	50	69	61	53	36	0.0	0.4	1.8	135	22	71	742
10/12/2018	4:45	55	77	66	58	38	0.0	0.0	0.9	135	22	72	742
10/12/2018	5:00	50	71	62	52	35	0.0	0.0	0.9	180	21	73	742
10/12/2018	5:15	47	64	58	50	34	0.0	0.0	2.2	158	21	73	742
10/12/2018	5:30	47	64	57	51	32	0.0	0.0	1.3	158	21	73	742
10/12/2018	5:45	48	69	61	48	32	0.0	0.4	2.2	135	22	71	742
10/12/2018	6:00	46	70	57	50	32	0.0	0.4	2.2	135	23	69	742
10/12/2018	6:15	43	63	52	47	32	0.0	0.9	4.0	135	24	66	742
10/12/2018	6:30	44	64	54	48	29	0.0	1.3	4.5	135	24	64	743
10/12/2018	6:45	42	62	52	45	30	0.0	1.3	3.1	135	25	63	743
10/12/2018	7:00	47	77	57	45	31	0.0	1.3	3.1	135	26	61	743
10/12/2018	7:15	49	68	61	52	36	0.0	1.3	4.5	135	26	60	743
10/12/2018	7:30	45	65	55	47	35	0.0	0.9	2.7	135	27	58	743
10/12/2018	7:45	43	67	53	46	34	0.0	0.9	2.7	135	27	56	743
10/12/2018	8:00	42	59	50	46	34	0.0	0.9	2.7	135	28	54	743
10/12/2018	8:15	43	63	52	46	34	0.0	0.9	3.1	158	28	53	743
10/12/2018	8:30	44	63	52	47	34	0.0	0.4	2.7	203	29	51	743
10/12/2018	8:45	58	83	69	61	39	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:00	44	64	52	47	34	0.0	0.9	3.1	135	30	48	743
10/12/2018	9:15	45	67	53	48	35	0.0	1.3	4.5	158	31	46	742
10/12/2018	9:30	44	64	55	48	32	0.0	1.3	4.0	135	31	45	742
10/12/2018	9:45	42	59	52	46	32	0.0	1.3	3.1	135	31	43	742
10/12/2018	10:00	48	68	61	51	32	0.0	0.9	3.1	180	32	41	742
10/12/2018	10:15	49	70	62	52	30	0.0	0.4	3.1	270	33	40	742
10/12/2018	10:30	44	60	54	48	33	0.0	0.9	4.0	135	33	39	742
10/12/2018	10:45	42	61	51	46	30	0.0	0.9	3.6	180	33	36	742
10/12/2018	11:00	42	64	52	45	29	0.0	0.4	4.9	135	34	34	742
10/12/2018	11:15	46	68	57	47	29	0.0	1.3	4.5	135	34	33	742
10/12/2018	11:30	40	60	50	43	28	0.0	0.4	3.1	68	34	34	741
10/12/2018	11:45	39	59	48	42	31	0.0	0.9	2.7	135	35	33	741
10/12/2018	12:00	42	62	51	45	31	0.0	0.4	1.8	180	35	32	741
10/12/2018	12:15	38	66	47	40	29	0.0	0.9	3.1	248	36	30	741
10/12/2018	12:30	40	65	49	43	29	0.0	0.9	2.7	248	36	31	741
10/12/2018	12:45	40	60	48	43	29	0.0	0.9	3.1	293	35	32	740
10/12/2018	13:00	40	56	48	43	32	0.0	0.9	3.6	158	35	31	740
10/12/2018	13:15	39	60	49	42	31	0.0	0.9	3.1	225	36	31	740
10/12/2018	13:30	41	64	51	43	31	0.0	0.4	2.2	158	36	30	740
10/12/2018	13:45	41	58	49	44	31	0.0	0.9	3.1	135	37	30	739
10/12/2018	14:00	41	57	50	44	30	0.0	0.9	4.5	248	36	30	739
10/12/2018	14:15	39	60	48	43	29	0.0	0.4	2.2	225	37	29	739
10/12/2018	14:30	41	66	50	43	30	0.0	0.9	2.7	135	38	28	739
10/12/2018	14:45	39	54	48	43	28	0.0	0.9	2.7	248	37	29	739
10/12/2018	15:00	40	60	48	44	32	0.0	0.9	3.1	248	37	29	738
10/12/2018	15:15	40	64	50	43	29	0.0	0.4	2.7	158	37	28	738
10/12/2018	15:30	44	67	58	44	30	0.0	0.9	3.1	113	37	28	738
10/12/2018	15:45	38	62	48	40	28	0.0	0.4	2.2	315	37	27	738
10/12/2018	16:00	39	65	48	43	28	0.0	0.4	1.8	225	37	27	738
10/12/2018	16:15	41	62	51	44	27	0.0	0.4	2.7	270	37	27	738
10/12/2018	16:30	43	68	55	43	27	0.0	1.3	3.1	293	36	27	738

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	16:45	37	62	46	40	27	0.0	0.4	1.8	248	37	26	738
10/12/2018	17:00	46	64	56	49	30	0.0	1.3	2.7	113	36	26	738
10/12/2018	17:15	41	60	51	44	31	0.0	0.4	2.2	113	36	26	738
10/12/2018	17:30	43	59	53	46	32	0.0	0.0	1.8	203	36	26	738
10/12/2018	17:45	47	69	59	49	32	0.0	0.4	3.1	225	36	26	738
10/12/2018	18:00	41	69	49	43	32	0.0	0.0	0.9	135	36	27	739
10/12/2018	18:15	46	69	57	47	35	0.0	0.0	2.2	135	36	27	739
10/12/2018	18:30	43	64	54	46	34	0.0	0.0	1.3	158	35	27	739
10/12/2018	18:45	49	72	62	49	35	0.0	0.0	0.4	135	35	28	739
10/12/2018	19:00	53	78	64	52	38	0.0	0.0	0.0	0	34	29	739
10/12/2018	19:15	41	65	53	37	31	0.0	0.0	0.0	0	33	30	739
10/12/2018	19:30	33	57	40	35	29	0.0	0.0	0.0	0	33	31	739
10/12/2018	19:45	33	41	38	36	28	0.0	0.0	0.4	135	33	31	739
10/12/2018	20:00	33	40	38	36	28	0.0	0.4	1.8	135	33	31	739
10/12/2018	20:15	38	60	48	41	31	0.0	0.4	1.8	135	33	32	740
10/12/2018	20:30	36	59	42	38	31	0.0	0.4	2.2	135	32	33	740
10/12/2018	20:45	32	51	38	35	29	0.0	0.4	2.2	158	32	36	740
10/12/2018	21:00	35	52	39	37	31	0.0	0.4	2.2	158	32	38	740
10/12/2018	21:15	39	65	48	42	33	0.0	0.9	3.1	135	31	39	740
10/12/2018	21:30	40	63	49	42	33	0.0	0.4	2.2	135	31	40	741
10/12/2018	21:45	42	61	50	44	35	0.0	0.9	2.7	158	31	40	741
10/12/2018	22:00	38	63	46	39	32	0.0	0.9	3.1	135	31	41	741
10/12/2018	22:15	37	57	45	39	31	0.0	0.9	2.7	158	30	42	741
10/12/2018	22:30	44	64	52	48	30	0.0	0.9	3.1	135	30	43	741
10/12/2018	22:45	43	60	52	46	36	0.0	1.3	4.9	135	30	45	741
10/12/2018	23:00	39	61	48	40	30	0.0	1.8	6.7	135	29	47	741
10/12/2018	23:15	33	50	40	36	28	0.0	1.8	5.8	135	29	49	741
10/12/2018	23:30	30	41	35	33	26	0.0	1.8	5.8	135	28	51	741
10/12/2018	23:45	32	50	40	35	26	0.0	1.8	5.8	135	28	53	741
11/12/2018	0:00	33	56	42	36	25	0.0	2.2	5.8	135	28	55	741
11/12/2018	0:15	36	59	46	38	29	0.0	1.8	4.9	135	27	56	741
11/12/2018	0:30	34	55	44	37	27	0.0	1.8	4.9	135	27	57	741
11/12/2018	0:45	34	54	45	37	25	0.0	1.3	4.5	135	27	58	741
11/12/2018	1:00	29	54	40	29	20	0.0	0.9	2.7	135	26	59	741
11/12/2018	1:15	24	48	30	28	20	0.0	0.9	2.7	135	26	60	741
11/12/2018	1:30	32	61	39	34	22	0.0	0.4	2.2	135	26	61	741
11/12/2018	1:45	34	57	43	36	27	0.0	0.4	2.2	135	26	62	741
11/12/2018	2:00	26	53	34	29	21	0.0	0.4	3.1	135	25	63	741
11/12/2018	2:15	27	39	33	31	21	0.0	1.3	2.7	135	25	63	741
11/12/2018	2:30	30	42	34	32	20	0.0	0.9	2.2	135	25	64	741
11/12/2018	2:45	26	44	33	31	18	0.0	0.9	2.7	135	25	65	741
11/12/2018	3:00	21	32	27	23	18	0.0	1.3	2.7	135	25	65	741
11/12/2018	3:15	21	49	21	19	18	0.0	0.9	2.7	135	24	66	741
11/12/2018	3:30	25	51	31	27	19	0.0	0.9	2.2	135	24	67	741
11/12/2018	3:45	36	55	49	38	18	0.0	0.9	4.0	158	24	67	741
11/12/2018	4:00	40	66	50	44	23	0.0	1.3	3.1	135	24	67	741
11/12/2018	4:15	45	65	56	47	33	0.0	0.9	2.7	135	23	68	741
11/12/2018	4:30	49	67	59	52	36	0.0	1.3	4.0	135	23	68	741
11/12/2018	4:45	52	69	62	56	36	0.0	1.3	3.6	135	23	68	741
11/12/2018	5:00	50	65	59	54	36	0.0	1.3	3.1	135	23	68	741
11/12/2018	5:15	47	65	57	51	32	0.0	0.9	3.1	135	23	68	741
11/12/2018	5:30	43	58	52	47	32	0.0	0.4	2.2	135	23	67	742
11/12/2018	5:45	44	62	54	48	32	0.0	0.9	2.2	158	24	67	742
11/12/2018	6:00	45	69	57	46	30	0.0	1.3	4.5	135	24	66	742
11/12/2018	6:15	43	61	54	46	30	0.0	1.3	4.5	135	25	64	742
11/12/2018	6:30	46	68	58	49	30	0.0	1.3	3.1	135	25	62	742
11/12/2018	6:45	45	65	55	48	31	0.0	0.9	2.7	135	26	58	743
11/12/2018	7:00	44	71	55	46	29	0.0	0.9	4.0	135	27	56	742
11/12/2018	7:15	45	67	57	47	30	0.0	1.3	4.0	135	27	54	742
11/12/2018	7:30	44	65	54	46	33	0.0	0.9	4.0	135	28	52	742
11/12/2018	7:45	44	65	54	48	33	0.0	0.9	4.0	135	28	53	742
11/12/2018	8:00	43	64	53	46	33	0.0	0.9	3.1	135	27	54	742
11/12/2018	8:15	47	69	59	50	31	0.0	0.4	2.2	135	29	51	742
11/12/2018	8:30	49	78	58	51	35	0.0	0.9	4.0	135	30	49	742
11/12/2018	8:45	50	78	58	49	36	0.0	0.9	3.1	158	31	46	742
11/12/2018	9:00	58	79	71	61	37	0.0	0.9	3.6	158	31	46	742
11/12/2018	9:15	42	65	50	45	33	0.0	0.9	3.1	135	32	45	742
11/12/2018	9:30	41	60	51	44	34	0.0	0.9	2.7	135	32	42	742
11/12/2018	9:45	42	57	50	46	33	0.0	0.9	4.0	135	32	42	742
11/12/2018	10:00	41	64	50	45	32	0.0	0.9	2.7	225	33	42	742

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	10:15	40	63	49	44	31	0.0	0.9	2.7	248	33	40	742
11/12/2018	10:30	42	62	52	46	32	0.0	0.9	3.1	293	32	41	742
11/12/2018	10:45	39	58	48	43	30	0.0	0.9	3.1	293	32	41	742
11/12/2018	11:00	41	64	50	44	30	0.0	0.9	5.4	248	33	40	742
11/12/2018	11:15	41	65	50	44	33	0.0	1.3	4.5	248	33	40	742
11/12/2018	11:30	40	59	49	43	30	0.0	0.9	2.7	293	33	39	742
11/12/2018	11:45	40	61	48	43	31	0.0	0.9	3.1	248	34	36	741
11/12/2018	12:00	39	61	47	41	31	0.0	0.9	3.1	248	35	36	741
11/12/2018	12:15	45	75	53	44	30	0.0	0.9	3.1	315	35	36	741
11/12/2018	12:30	38	57	47	41	30	0.0	0.9	3.1	248	35	35	740
11/12/2018	12:45	37	60	46	41	28	0.0	0.4	3.1	225	35	34	740
11/12/2018	13:00	40	55	47	44	33	0.0	0.9	9.8	203	35	33	740
11/12/2018	13:15	43	73	54	43	30	0.0	0.4	2.2	248	36	31	740
11/12/2018	13:30	49	71	61	51	32	0.0	0.9	2.7	248	35	32	740
11/12/2018	13:45	40	69	50	41	29	0.0	0.9	4.0	248	35	32	740
11/12/2018	14:00	40	60	49	44	30	0.0	0.4	4.0	158	35	32	739
11/12/2018	14:15	41	70	50	42	29	0.0	0.4	2.2	270	35	32	739
11/12/2018	14:30	37	61	46	41	28	0.0	0.4	2.7	225	37	29	739
11/12/2018	14:45	41	59	52	43	29	0.0	0.9	3.1	135	37	29	739
11/12/2018	15:00	40	57	49	44	33	0.0	0.9	3.1	225	37	29	739
11/12/2018	15:15	40	63	48	44	31	0.0	0.4	2.2	135	37	28	739
11/12/2018	15:30	39	54	47	43	32	0.0	0.4	2.7	248	36	29	738
11/12/2018	15:45	41	59	51	44	32	0.0	0.4	2.7	248	36	28	738
11/12/2018	16:00	45	61	55	48	32	0.0	0.4	2.7	135	36	29	738
11/12/2018	16:15	47	68	58	50	30	0.0	0.4	2.2	158	36	29	738
11/12/2018	16:30	51	73	62	52	31	0.0	0.0	1.8	248	36	30	738
11/12/2018	16:45	43	60	53	46	33	0.0	0.4	1.8	270	36	30	738
11/12/2018	17:00	43	61	52	46	34	0.0	0.4	1.8	248	36	30	738
11/12/2018	17:15	45	70	57	46	33	0.0	0.9	2.7	135	36	30	738
11/12/2018	17:30	43	59	54	47	34	0.0	0.4	2.2	158	36	30	738
11/12/2018	17:45	42	60	52	45	33	0.0	0.4	2.7	135	36	30	738
11/12/2018	18:00	50	66	59	54	37	0.0	0.0	1.3	248	35	31	738
11/12/2018	18:15	47	67	57	51	38	0.0	0.0	0.9	248	35	31	738
11/12/2018	18:30	48	65	58	51	41	0.0	0.0	0.4	248	35	31	738
11/12/2018	18:45	56	85	68	54	42	0.0	0.0	1.8	203	34	31	738
11/12/2018	19:00	50	72	61	52	39	0.0	0.0	3.1	203	34	31	739
11/12/2018	19:15	49	67	62	51	36	0.0	0.0	1.8	0	34	33	739
11/12/2018	19:30	49	70	58	52	40	0.0	0.4	2.7	225	33	35	739
11/12/2018	19:45	47	61	54	49	40	0.0	0.4	3.6	225	33	37	739
11/12/2018	20:00	46	60	52	49	40	0.0	0.9	3.6	225	32	38	739
11/12/2018	20:15	48	62	54	50	44	0.0	0.9	3.1	225	31	39	739
11/12/2018	20:30	46	61	53	49	41	0.0	0.4	3.1	248	31	41	740
11/12/2018	20:45	51	63	57	54	45	0.0	0.9	4.5	225	30	42	740
11/12/2018	21:00	47	64	53	50	41	0.0	0.4	4.5	248	30	43	740
11/12/2018	21:15	45	58	53	49	40	0.0	0.4	3.1	225	30	44	740
11/12/2018	21:30	46	64	54	50	38	0.0	0.4	4.5	203	29	45	740
11/12/2018	21:45	47	63	54	50	41	0.0	0.9	5.4	135	29	46	740
11/12/2018	22:00	48	64	54	51	40	0.0	1.3	6.3	135	29	48	740
11/12/2018	22:15	46	59	53	50	38	0.0	1.8	4.9	135	29	49	740
11/12/2018	22:30	46	63	53	48	40	0.0	1.3	3.1	135	29	50	741
11/12/2018	22:45	43	64	52	45	36	0.0	2.2	5.8	135	28	50	741
11/12/2018	23:00	46	63	52	49	39	0.0	2.2	5.4	135	28	51	741
11/12/2018	23:15	46	64	54	49	41	0.0	2.7	6.3	135	28	53	741
11/12/2018	23:30	49	64	55	52	42	0.0	2.2	6.7	135	27	55	741
11/12/2018	23:45	48	65	57	51	43	0.0	1.8	5.4	135	27	56	741
12/12/2018	0:00	44	64	51	47	38	0.0	1.8	5.4	135	27	57	741
12/12/2018	0:15	44	62	54	47	36	0.0	1.8	4.5	135	26	58	740
12/12/2018	0:30	43	65	52	45	36	0.0	1.8	4.0	135	26	58	740
12/12/2018	0:45	42	65	51	44	35	0.0	2.2	4.9	135	26	59	740
12/12/2018	1:00	41	61	49	45	32	0.0	1.3	3.6	135	26	59	740
12/12/2018	1:15	36	59	44	39	29	0.0	1.3	3.1	158	26	60	740
12/12/2018	1:30	38	66	49	37	29	0.0	1.3	3.1	135	25	61	740
12/12/2018	1:45	36	62	46	37	28	0.0	1.3	3.6	135	25	62	740
12/12/2018	2:00	37	63	48	39	30	0.0	0.9	4.9	135	25	64	740
12/12/2018	2:15	35	58	42	38	27	0.0	1.3	4.9	135	25	65	740
12/12/2018	2:30	34	61	39	35	26	0.0	0.9	2.7	135	25	65	740
12/12/2018	2:45	28	58	34	29	21	0.0	1.3	4.0	158	24	66	740
12/12/2018	3:00	30	56	36	32	24	0.0	1.3	4.5	135	24	66	740
12/12/2018	3:15	34	59	43	35	28	0.0	1.3	3.1	135	24	67	740
12/12/2018	3:30	32	57	41	33	26	0.0	1.3	3.1	135	24	68	740

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018 3:45	34	58	44	34	28	0.0	1.3	3.1	135	24	68	740
12/12/2018 4:00	38	60	48	42	28	0.0	1.3	3.1	135	24	69	739
12/12/2018 4:15	46	65	57	49	35	0.0	0.9	2.7	135	23	69	740
12/12/2018 4:30	54	77	67	54	37	0.0	0.4	2.2	158	23	69	740
12/12/2018 4:45	47	63	56	51	35	0.0	0.4	1.8	135	23	69	740
12/12/2018 5:00	47	67	59	50	33	0.0	0.0	1.8	158	23	70	740
12/12/2018 5:15	43	62	54	47	30	0.0	0.4	2.2	135	23	70	740
12/12/2018 5:30	43	64	55	47	28	0.0	0.4	1.8	135	23	70	740
12/12/2018 5:45	40	63	50	43	30	0.0	0.4	2.7	135	24	70	740
12/12/2018 6:00	43	62	53	48	32	0.0	0.4	2.2	135	24	69	740
12/12/2018 6:15	43	61	53	47	34	0.0	0.9	3.1	135	24	68	741
12/12/2018 6:30	42	60	52	46	33	0.0	1.3	4.0	135	25	67	741
12/12/2018 6:45	47	71	58	49	36	0.0	1.3	4.0	158	25	66	741
12/12/2018 7:00	45	66	56	48	35	0.0	1.3	4.9	135	26	64	741
12/12/2018 7:15	49	80	59	51	36	0.0	1.3	4.5	158	26	62	741
12/12/2018 7:30	45	65	57	47	34	0.0	1.3	4.0	135	27	60	741
12/12/2018 7:45	43	61	53	46	34	0.0	0.9	4.0	135	27	58	741
12/12/2018 8:00	46	70	58	45	32	0.0	1.3	4.0	135	28	56	741
12/12/2018 8:15	42	61	51	45	33	0.0	0.4	3.1	180	29	52	741
12/12/2018 8:30	45	67	58	45	32	0.0	1.3	3.1	135	29	53	741
12/12/2018 8:45	43	70	53	46	30	0.0	0.9	4.5	135	30	50	741
12/12/2018 9:00	55	76	67	57	39	0.0	0.9	3.1	135	31	48	740
12/12/2018 9:15	46	77	53	43	33	0.0	0.9	4.9	158	31	46	740
12/12/2018 9:30	47	76	59	48	33	0.0	0.9	4.5	135	32	44	740
12/12/2018 9:45	46	71	59	44	32	0.0	0.9	4.0	135	32	43	740
12/12/2018 10:00	41	60	50	44	34	0.2	0.9	3.1	135	34	39	739
12/12/2018 10:15	43	61	53	46	35	0.0	0.0	0.0	0	34	39	739
12/12/2018 10:30	52	73	63	55	38	0.0	0.0	0.0	0	35	36	739
12/12/2018 10:45	45	63	53	49	37	0.0	0.0	0.0	0	35	34	739
12/12/2018 11:00	42	60	50	46	34	0.0	0.0	0.0	0	36	34	739
12/12/2018 11:15	43	60	50	46	36	0.0	0.0	0.0	0	36	32	739
12/12/2018 11:30	49	70	61	51	33	0.0	0.0	0.0	0	37	32	739
12/12/2018 11:45	55	83	65	50	35	0.0	0.0	0.0	0	38	31	738
12/12/2018 12:00	42	59	51	46	32	0.0	0.0	0.0	0	39	22	736
12/12/2018 12:15	43	61	52	48	31	0.0	0.0	0.0	0	38	21	734
12/12/2018 12:30	42	66	51	45	30	0.0	0.0	0.0	0	37	31	734
12/12/2018 12:45	43	62	50	46	35	0.0	0.0	0.0	0	37	32	734
12/12/2018 13:00	43	64	50	46	34	0.0	0.0	0.0	0	38	32	734
12/12/2018 13:15	38	59	48	41	31	0.0	0.0	0.0	0	39	32	734
12/12/2018 13:30	39	56	47	42	31	0.0	0.0	0.0	0	40	32	734
12/12/2018 13:45	56	84	70	49	31	0.0	0.0	0.0	0	40	28	734
12/12/2018 14:00	41	69	50	41	29	0.0	0.0	0.0	0	40	27	733
12/12/2018 14:15	37	55	46	40	28	0.0	0.0	0.0	0	40	28	733
12/12/2018 14:30	39	61	48	42	29	0.0	0.0	0.0	0	40	28	733
12/12/2018 14:45	41	64	53	43	29	0.0	0.0	0.0	0	40	29	733
12/12/2018 15:00	47	67	59	50	31	0.0	0.0	0.0	0	40	30	733
12/12/2018 15:15	39	59	48	42	29	0.0	0.0	0.0	0	40	31	733
12/12/2018 15:30	39	55	48	42	29	0.0	0.0	0.0	0	40	32	733
12/12/2018 15:45	38	54	47	42	28	0.0	0.0	0.0	0	40	32	733
12/12/2018 16:00	41	64	51	44	31	0.0	0.0	0.0	0	41	32	732
12/12/2018 16:15	52	71	64	55	33	0.0	0.0	0.0	0	41	32	732
12/12/2018 16:30	54	72	66	59	33	0.0	0.0	0.0	0	41	32	732
12/12/2018 16:45	47	65	60	49	32	0.0	0.0	0.0	0	41	33	732
12/12/2018 17:00	53	71	65	55	38	0.0	0.0	0.0	0	41	33	732
12/12/2018 17:15	45	60	54	49	35	0.0	0.0	0.0	0	41	33	732
12/12/2018 17:30	46	69	57	49	32	0.0	0.0	0.0	0	40	33	733
12/12/2018 17:45	49	73	60	51	36	0.0	0.0	0.0	0	40	34	733
12/12/2018 18:00	40	59	51	43	31	0.0	0.0	0.0	0	40	34	733
12/12/2018 18:15	44	66	55	46	33	0.0	0.0	0.0	0	40	34	733
12/12/2018 18:30	50	77	62	51	38	0.0	0.0	0.0	0	40	34	733
12/12/2018 18:45	49	77	60	49	36	0.0	0.0	0.0	0	39	34	733
12/12/2018 19:00	50	70	57	53	43	0.0	0.0	0.0	0	39	34	733
12/12/2018 19:15	45	57	52	49	38	0.0	0.0	0.0	0	38	35	733
12/12/2018 19:30	49	62	55	52	42	0.0	0.0	0.0	0	38	35	733
12/12/2018 19:45	49	65	56	53	42	0.0	0.0	0.0	0	38	35	733
12/12/2018 20:00	50	62	59	54	45	0.0	0.0	0.0	0	37	35	733
12/12/2018 20:15	51	65	59	54	46	0.0	0.0	0.0	0	37	35	734
12/12/2018 20:30	46	58	54	50	40	0.0	0.0	0.0	0	36	35	734
12/12/2018 20:45	45	58	53	48	39	0.0	0.0	0.0	0	36	36	734
12/12/2018 21:00	46	61	53	49	39	0.0	0.0	0.0	0	35	36	734

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018 21:15	46	60	52	49	42	0.0	0.0	0.0	0	35	36	734
12/12/2018 21:30	47	61	53	50	43	0.0	0.0	0.0	0	34	37	734
12/12/2018 21:45	49	64	58	52	41	0.0	0.0	0.0	0	34	37	734
12/12/2018 22:00	49	62	55	52	44	0.0	0.0	0.0	0	34	37	734
12/12/2018 22:15	46	62	54	49	40	0.0	0.0	0.0	0	33	37	734
12/12/2018 22:30	43	58	49	46	38	0.0	0.0	0.0	0	33	38	734
12/12/2018 22:45	44	66	51	46	38	0.0	0.0	0.0	0	33	38	734
12/12/2018 23:00	43	67	53	46	37	0.0	0.0	0.0	0	32	38	734
12/12/2018 23:15	46	62	54	50	38	0.0	0.0	0.0	0	32	39	734
12/12/2018 23:30	47	66	55	50	39	0.0	0.0	0.0	0	31	39	734
12/12/2018 23:45	42	64	51	45	35	0.0	0.0	0.0	0	31	39	734
13/12/2018 0:00	47	63	56	51	38	0.0	0.0	0.0	0	31	40	734
13/12/2018 0:15	42	62	50	45	34	0.0	0.0	0.0	0	31	40	734
13/12/2018 0:30	40	61	49	42	32	0.0	0.0	0.0	0	30	40	734
13/12/2018 0:45	42	62	53	47	30	0.0	0.0	0.0	0	30	40	734
13/12/2018 1:00	49	66	56	52	42	0.0	0.0	0.0	0	30	40	733
13/12/2018 1:15	47	66	55	50	41	0.0	0.0	0.0	0	30	40	733
13/12/2018 1:30	44	63	52	46	39	0.0	0.0	0.0	0	29	41	733
13/12/2018 1:45	43	65	53	46	34	0.0	0.0	0.0	0	29	41	733
13/12/2018 2:00	42	66	50	44	37	0.0	0.0	0.0	0	29	41	733
13/12/2018 2:15	38	65	48	40	32	0.0	0.0	0.0	0	29	41	733
13/12/2018 2:30	40	62	49	42	32	0.0	0.0	0.0	0	28	42	733
13/12/2018 2:45	38	61	47	40	30	0.0	0.0	0.0	0	28	42	733
13/12/2018 3:00	36	62	46	37	28	0.0	0.0	0.0	0	28	42	733
13/12/2018 3:15	38	59	47	41	28	0.0	0.0	0.0	0	28	42	733
13/12/2018 3:30	40	62	49	41	34	0.0	0.0	0.0	0	28	43	733
13/12/2018 3:45	40	61	50	42	32	0.0	0.0	0.0	0	27	43	733
13/12/2018 4:00	42	64	51	44	34	0.0	0.0	0.0	0	27	43	733
13/12/2018 4:15	44	62	53	48	35	0.0	0.0	0.0	0	27	44	733
13/12/2018 4:30	49	74	60	52	37	0.0	0.0	0.0	0	27	44	733
13/12/2018 4:45	54	74	64	57	38	0.0	0.0	0.0	0	27	44	733
13/12/2018 5:00	49	67	61	53	30	0.0	0.0	0.0	0	26	44	733
13/12/2018 5:15	41	58	52	45	29	0.0	0.0	0.0	0	26	44	734
13/12/2018 5:30	41	58	51	45	30	0.0	0.0	0.0	0	26	44	734
13/12/2018 5:45	39	61	50	42	30	0.0	0.0	0.0	0	26	45	734
13/12/2018 6:00	39	60	48	41	32	0.0	0.0	0.0	0	26	45	734
13/12/2018 6:15	40	60	49	42	34	0.0	0.0	0.0	0	26	45	734
13/12/2018 6:30	40	62	50	42	34	0.0	0.0	0.0	0	26	47	734
13/12/2018 6:45	48	78	60	47	34	0.0	0.0	0.0	0	26	47	734
13/12/2018 7:00	43	65	52	46	36	0.0	0.0	0.0	0	26	47	734
13/12/2018 7:15	47	74	56	49	40	0.0	0.0	0.0	0	27	43	734
13/12/2018 7:30	47	64	55	50	41	0.0	0.0	0.0	0	27	59	733

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_06

From	Thursday 6/12/2018 11:45	Meas. Type	Free Field	Package	Border to Gowrie
To	Thursday 13/12/2018 9:30	Mic. Height (m)	1.8	Address	46 Daphne Street
Instrument Type	Larson Davis 831	Weather Station	No	Suburb	Brookstead
Instrument Serial #	3301	Operator	JR	Land Use	Residential
Inst. Cal. Date	13/4/2017	Sample Int.	15 min	Latitude	27°45'26.81"S
Pre Calibration	94	RP Lot#	118/RP825878	Longitude	151°26'39.90"E
Post Calibration	94				

Daytime

RBL **39.3 dB(A)**

ABLs Day (Mon-Fri 7am - 6 pm)

ABLs Day (Sat 8 am - 1 pm)

Thursday 6/12/2018	40.2	dB(A)
Friday 7/12/2018	41.2	dB(A)
Saturday 8/12/2018	40.5	dB(A)
Monday 10/12/2018	36.0	dB(A)
Tuesday 11/12/2018	34.6	dB(A)
Wednesday 12/12/2018	35.1	dB(A)
Thursday 13/12/2018	39.3	dB(A)

Evening

RBL **37.6 dB(A)**

ABLs Evening (Mon-Fri 6 pm - 10 pm)

ABLs Evening (Sat 1 pm - 10 pm)

ABLs Evening (Sun 7 am - 10 pm)

Thursday 6/12/2018	37.6	dB(A)
Friday 7/12/2018	34.0	dB(A)
Saturday 8/12/2018	39.9	dB(A)
Sunday 9/12/2018	37.3	dB(A)
Monday 10/12/2018	36.5	dB(A)
Tuesday 11/12/2018	40.9	dB(A)
Wednesday 12/12/2018	39.3	dB(A)

Night

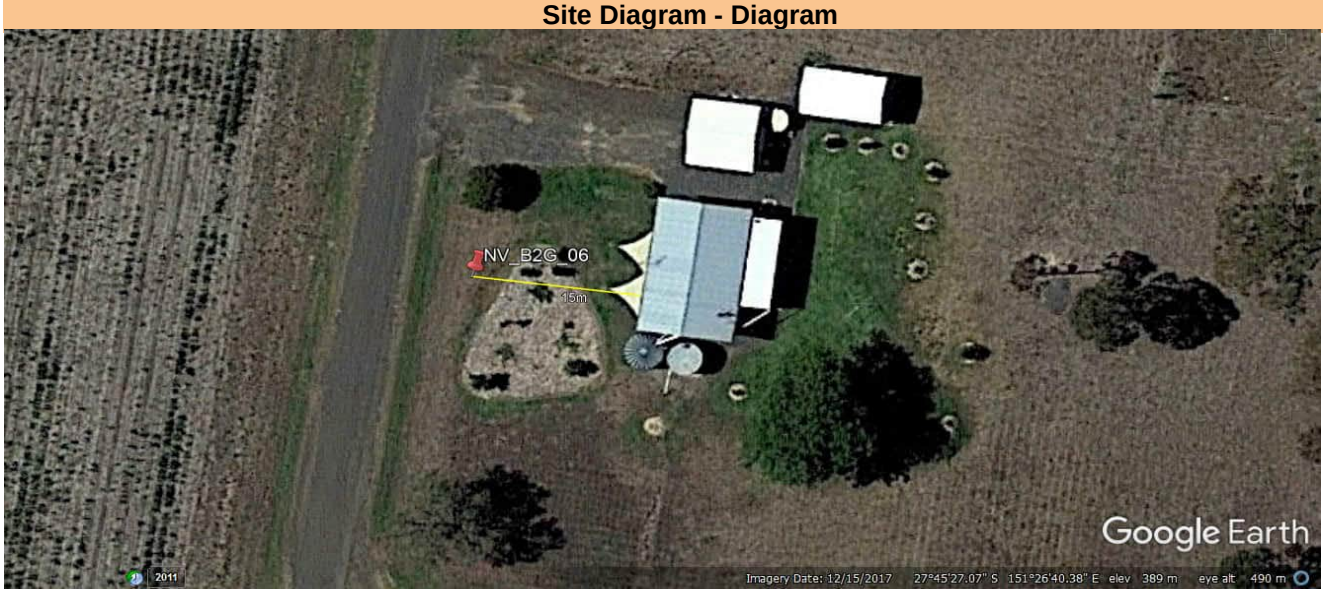
RBL **28.9 dB(A)**

ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)

ABLs Night (Fri 6pm - 8am)

Thursday 6/12/2018	25	dB(A)
Friday 7/12/2018	25.6	dB(A)
Saturday 8/12/2018	26.4	dB(A)
Sunday 9/12/2018	28.9	dB(A)
Monday 10/12/2018	31.3	dB(A)
Tuesday 11/12/2018	29.3	dB(A)
Wednesday 12/12/2018	35.6	dB(A)

Site Diagram - Diagram



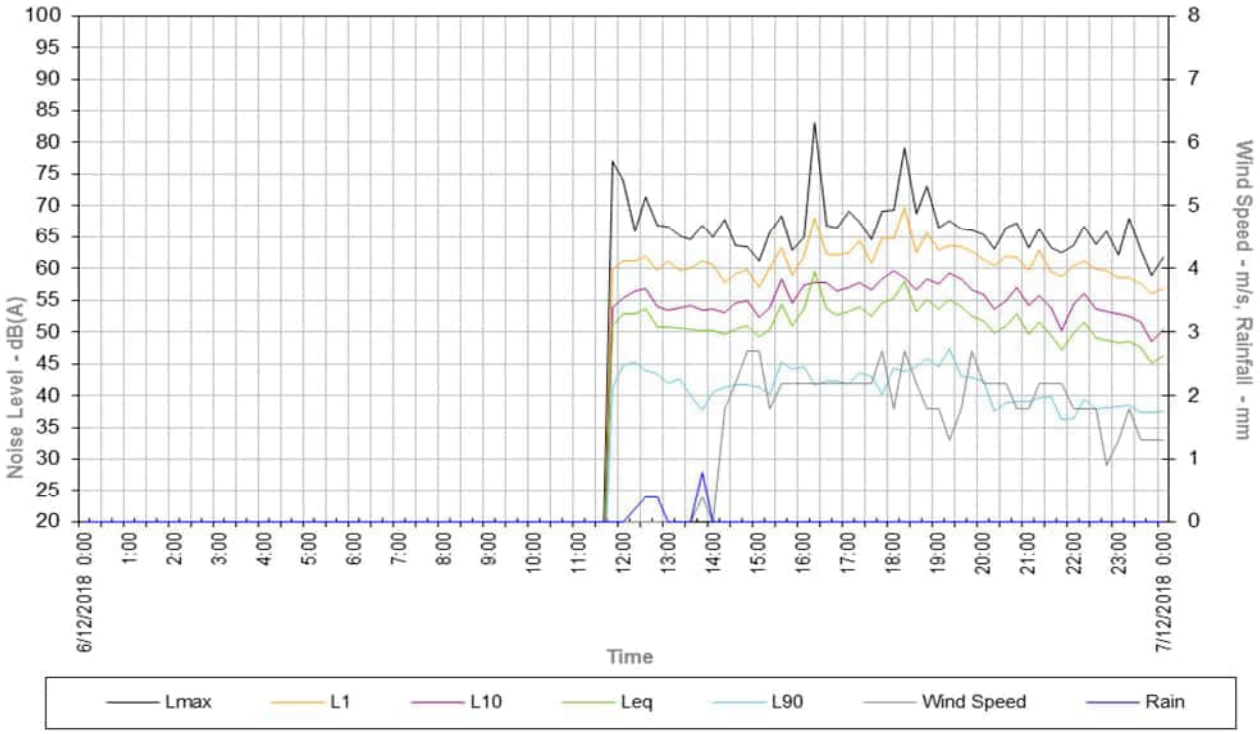
Site Attended Measurements Summary

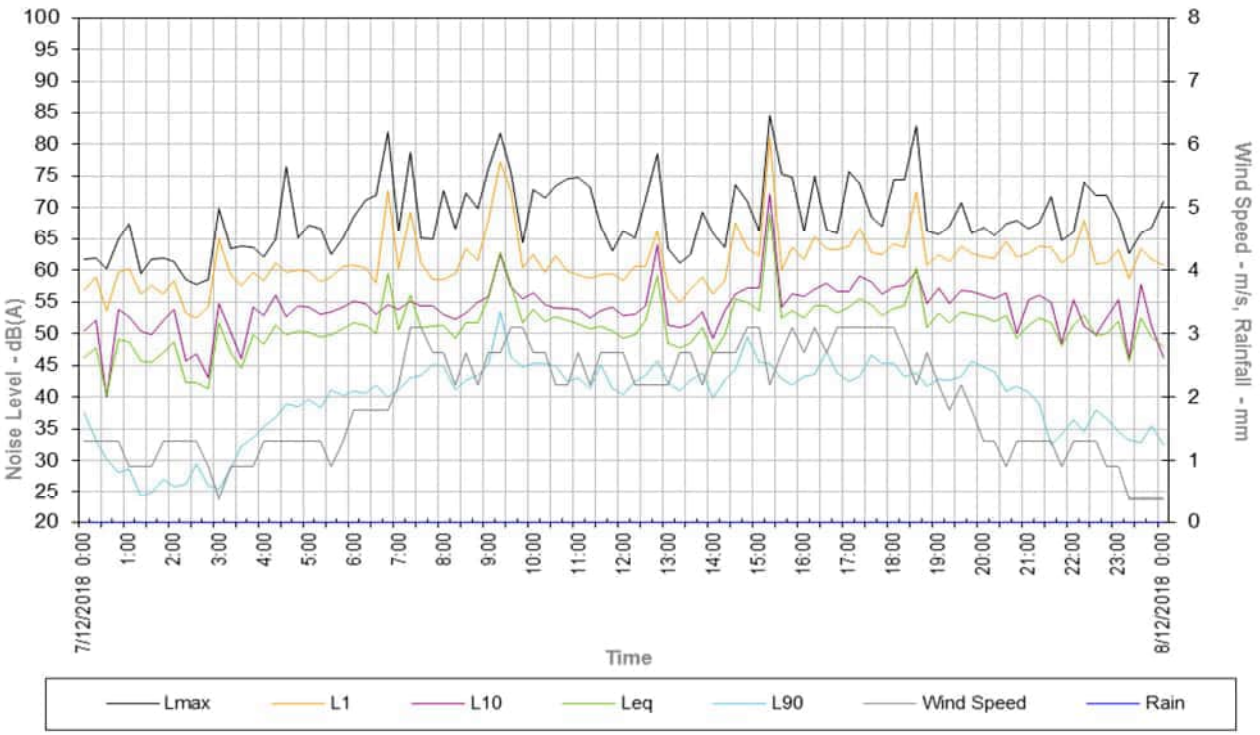
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
6/12/2018	11:38 AM	Attended	83.3	58.6	51.5	39.8	50.6	Pass	11:45 AM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Attended measurement started before the start of the logger. Background is distant road traffic hum at 40-45 dB(A) from Gore Hwy.Intermittent cicada noise at 50 dB(A). Occasional light wind noise in nearby trees at 45-48 d(A). Audible bird and insect in grass. Truck pass bys at 55-83 dB(A).								
13/12/2018	9:30 AM	Attended	72.0	60.6	55.0	45.7	52.1	Pass	9:45 AM
		Logged	68.3	65.3	59.4	46.6	55.7		
		Difference	3.7	-4.7	-4.4	-0.9	-3.6		
Comments	Difference in levels cause by attended measurement being taken hand held. Background is road traffic noise from gore highway. Truck pass-bys at 63-72 dB(A) and wind noise at 53 dB(A). Constant insect noise at 50-53 dB(A).								

Photos

Site Noise and Weather Graphical Analysis

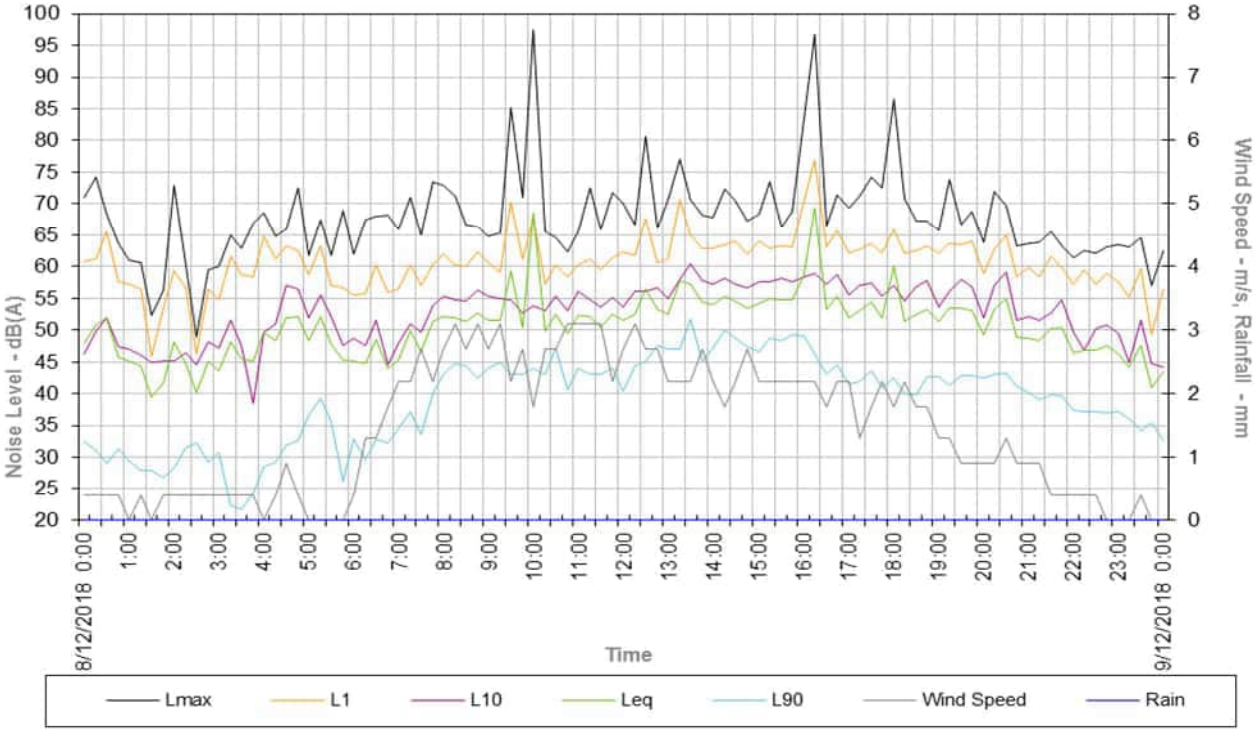
46 Daphne Street

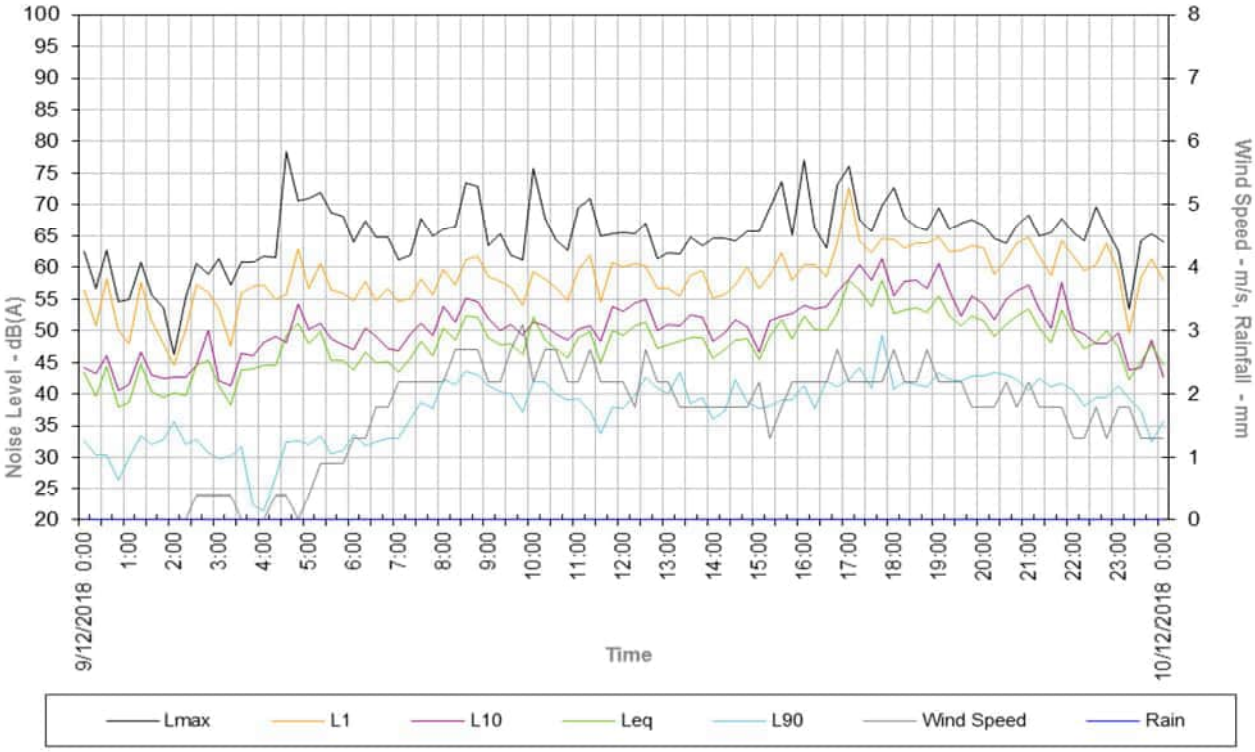




Site Noise and Weather Graphical Analysis

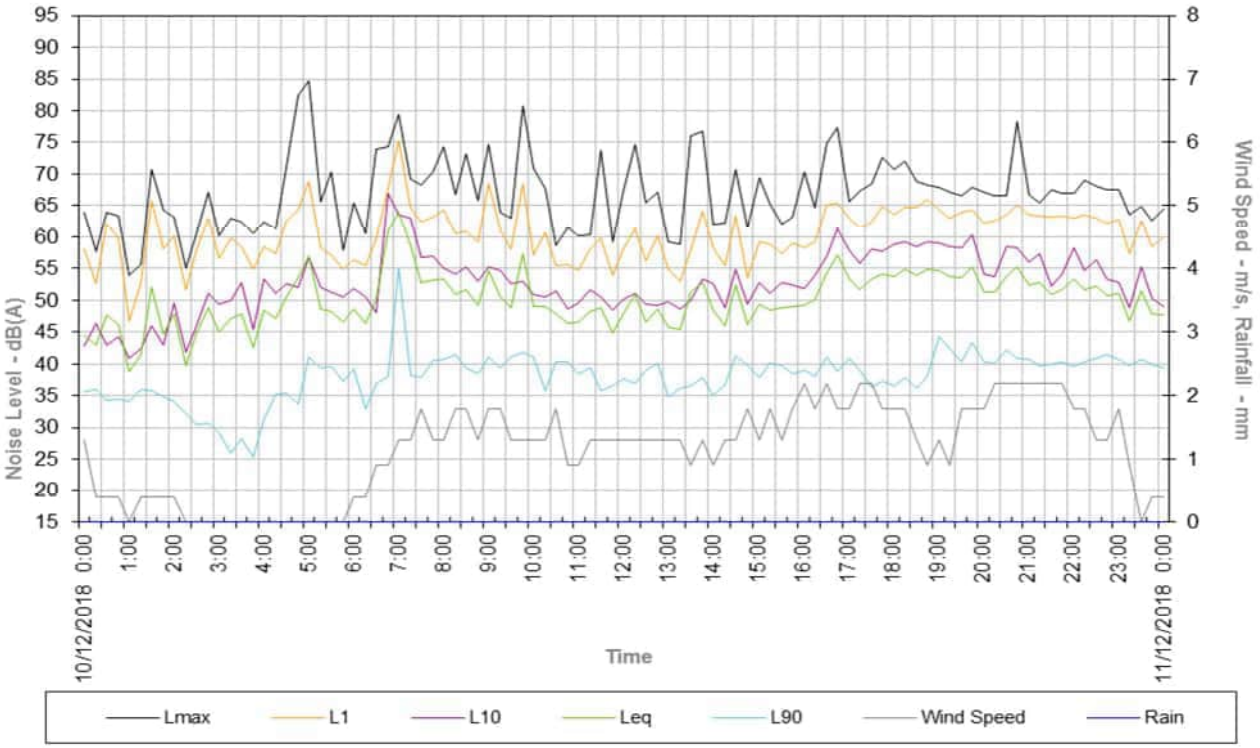
46 Daphne Street

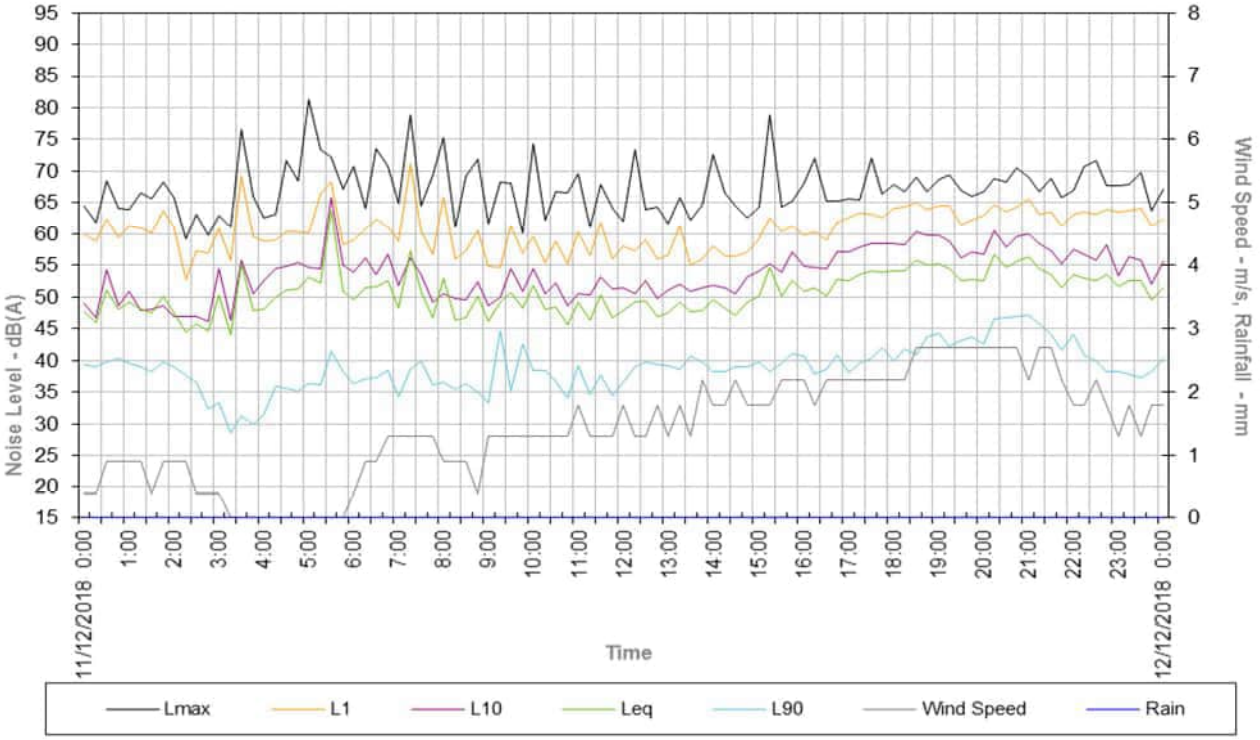




Site Noise and Weather Graphical Analysis

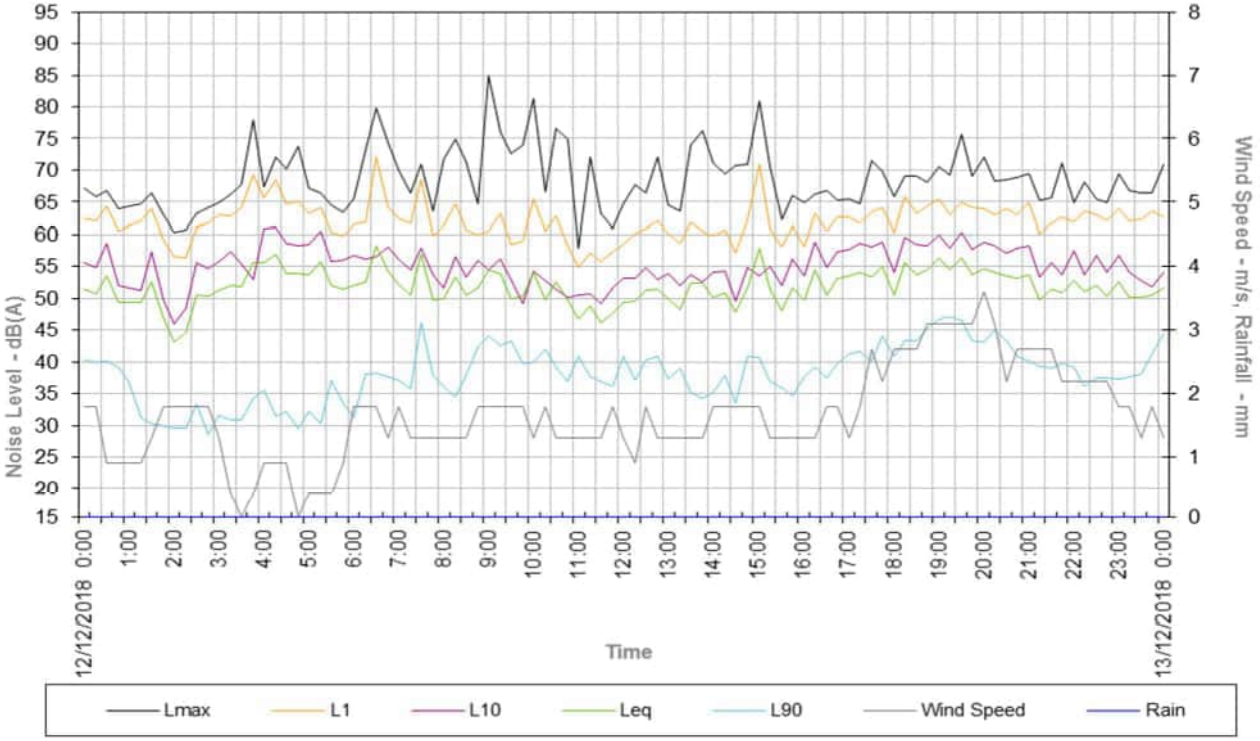
46 Daphne Street

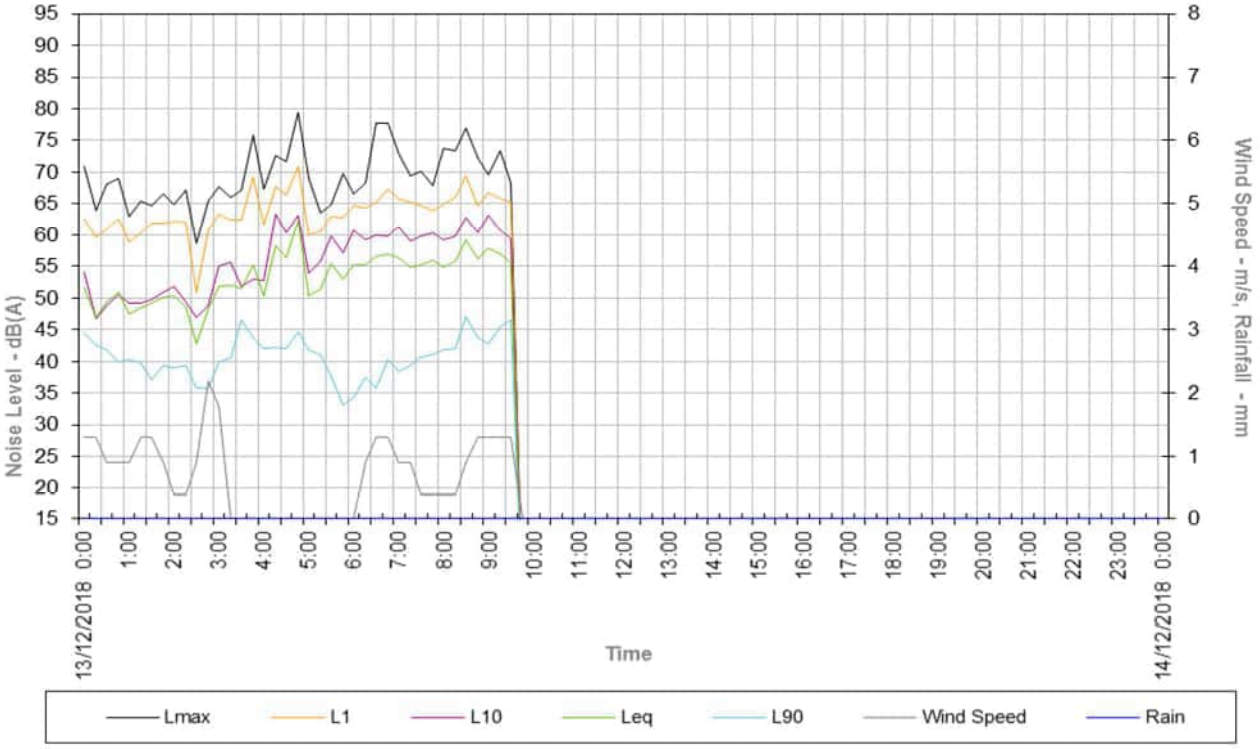




Site Noise and Weather Graphical Analysis

46 Daphne Street





Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018	11:45	51	77	60	54	41	0.0	0.0	0.0	0	26	42	730
6/12/2018	12:00	53	74	61	55	45	0.0	0.0	0.0	0	27	43	730
6/12/2018	12:15	53	66	61	56	45	0.2	0.0	0.0	0	27	42	726
6/12/2018	12:30	54	71	62	57	44	0.4	0.0	0.0	0	28	40	719
6/12/2018	12:45	51	67	60	54	44	0.4	0.0	0.0	0	31	40	719
6/12/2018	13:00	51	67	61	54	42	0.0	0.0	0.0	0	36	32	719
6/12/2018	13:15	51	65	60	54	43	0.0	0.0	0.0	0	38	27	719
6/12/2018	13:30	51	65	60	54	40	0.0	0.0	0.0	0	41	24	719
6/12/2018	13:45	50	67	61	53	38	0.8	0.4	17.9	338	36	31	719
6/12/2018	14:00	50	65	61	54	41	0.0	0.0	0.0	0	34	30	718
6/12/2018	14:15	50	68	58	53	41	0.0	1.8	5.4	68	28	38	718
6/12/2018	14:30	51	64	59	55	42	0.0	2.2	5.4	68	28	39	718
6/12/2018	14:45	51	63	60	55	42	0.0	2.7	7.2	68	27	39	718
6/12/2018	15:00	49	61	57	52	41	0.0	2.7	5.8	68	26	40	718
6/12/2018	15:15	50	66	60	54	40	0.0	1.8	6.7	68	26	40	718
6/12/2018	15:30	54	68	63	58	45	0.0	2.2	4.9	68	27	39	718
6/12/2018	15:45	51	63	59	55	44	0.0	2.2	5.8	90	27	39	717
6/12/2018	16:00	54	65	62	57	45	0.0	2.2	5.8	68	27	39	718
6/12/2018	16:15	60	83	68	58	42	0.0	2.2	5.8	68	26	40	718
6/12/2018	16:30	54	67	62	58	42	0.0	2.2	5.8	45	26	42	718
6/12/2018	16:45	53	66	62	56	42	0.0	2.2	4.9	68	26	42	718
6/12/2018	17:00	53	69	63	57	42	0.0	2.2	4.9	90	25	43	718
6/12/2018	17:15	54	67	64	58	44	0.0	2.2	5.4	68	25	44	718
6/12/2018	17:30	53	65	61	57	43	0.0	2.2	4.9	68	24	45	718
6/12/2018	17:45	55	69	65	58	40	0.0	2.7	5.8	45	24	48	718
6/12/2018	18:00	55	69	65	60	44	0.0	1.8	5.4	45	23	52	718
6/12/2018	18:15	58	79	70	59	44	0.0	2.7	5.4	45	22	54	718
6/12/2018	18:30	53	69	63	57	45	0.0	2.2	7.2	45	22	56	719
6/12/2018	18:45	55	73	66	58	46	0.0	1.8	5.4	68	22	57	719
6/12/2018	19:00	54	67	63	58	45	0.0	1.8	3.6	68	21	60	719
6/12/2018	19:15	55	68	64	59	47	0.0	1.3	6.3	68	21	62	719
6/12/2018	19:30	54	66	63	58	43	0.0	1.8	4.9	68	20	62	719
6/12/2018	19:45	52	66	63	57	43	0.0	2.7	5.8	68	20	63	719
6/12/2018	20:00	52	65	61	56	42	0.0	2.2	6.3	68	20	63	719
6/12/2018	20:15	50	63	61	54	38	0.0	2.2	4.9	90	19	65	720
6/12/2018	20:30	51	67	62	55	39	0.0	2.2	4.9	68	19	66	720
6/12/2018	20:45	53	67	62	57	39	0.0	1.8	4.9	90	19	67	720
6/12/2018	21:00	50	63	60	54	39	0.0	1.8	5.4	90	18	68	720
6/12/2018	21:15	52	66	63	56	40	0.0	2.2	5.4	90	18	69	720
6/12/2018	21:30	49	63	59	54	40	0.0	2.2	4.9	68	18	69	720
6/12/2018	21:45	47	63	59	50	36	0.0	2.2	5.4	90	18	70	720
6/12/2018	22:00	50	64	60	54	37	0.0	1.8	5.4	90	17	71	720
6/12/2018	22:15	52	67	61	56	40	0.0	1.8	4.9	113	17	71	720
6/12/2018	22:30	49	64	60	54	38	0.0	1.8	4.0	113	17	71	720
6/12/2018	22:45	49	66	60	53	38	0.0	0.9	3.1	113	17	72	720
6/12/2018	23:00	48	62	59	53	38	0.0	1.3	3.6	113	17	70	720
6/12/2018	23:15	49	68	59	52	39	0.0	1.8	4.9	113	17	67	720
6/12/2018	23:30	48	63	58	52	37	0.0	1.3	4.0	113	17	67	720
6/12/2018	23:45	45	59	56	49	37	0.0	1.3	3.6	113	17	67	720
7/12/2018	0:00	46	62	57	50	38	0.0	1.3	3.6	113	16	66	720
7/12/2018	0:15	48	62	59	52	33	0.0	1.3	4.9	113	16	66	720
7/12/2018	0:30	40	60	54	40	30	0.0	1.3	4.0	113	16	66	720
7/12/2018	0:45	49	65	60	54	28	0.0	1.3	4.0	113	16	67	720
7/12/2018	1:00	49	67	60	53	29	0.0	0.9	3.1	113	16	68	719
7/12/2018	1:15	46	59	56	51	24	0.0	0.9	2.2	113	15	69	719
7/12/2018	1:30	46	62	58	50	25	0.0	0.9	3.1	113	15	69	719
7/12/2018	1:45	47	62	56	52	27	0.0	1.3	3.1	113	15	71	719
7/12/2018	2:00	49	61	58	54	26	0.0	1.3	3.6	113	15	72	719
7/12/2018	2:15	42	59	53	46	26	0.0	1.3	3.6	113	14	72	719
7/12/2018	2:30	42	58	53	47	29	0.0	1.3	4.0	113	14	74	719
7/12/2018	2:45	41	59	54	43	26	0.0	0.9	3.6	113	14	74	719
7/12/2018	3:00	52	70	65	55	25	0.0	0.4	2.2	113	14	74	719
7/12/2018	3:15	47	63	59	50	29	0.0	0.9	3.1	113	14	74	719
7/12/2018	3:30	45	64	58	46	32	0.0	0.9	3.1	113	14	74	719
7/12/2018	3:45	50	64	60	54	34	0.0	0.9	2.7	113	14	74	719
7/12/2018	4:00	48	62	58	53	35	0.0	1.3	3.1	113	13	75	719
7/12/2018	4:15	51	65	61	56	37	0.0	1.3	4.0	113	13	75	719
7/12/2018	4:30	50	77	60	53	39	0.0	1.3	3.1	113	13	75	719
7/12/2018	4:45	50	65	60	54	39	0.0	1.3	3.1	113	14	75	719
7/12/2018	5:00	50	67	60	54	40	0.0	1.3	4.5	113	14	74	719

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Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018	5:15	49	67	58	53	38	0.0	1.3	3.6	113	14	74	719
7/12/2018	5:30	50	63	59	53	41	0.0	0.9	3.1	113	15	74	719
7/12/2018	5:45	51	65	61	54	40	0.0	1.3	4.0	113	16	72	719
7/12/2018	6:00	52	69	61	55	41	0.0	1.8	4.5	113	16	71	720
7/12/2018	6:15	51	71	61	55	41	0.0	1.8	4.5	113	17	70	720
7/12/2018	6:30	50	72	58	53	42	0.0	1.8	4.0	113	17	69	720
7/12/2018	6:45	60	82	73	55	40	0.0	1.8	5.4	113	18	67	720
7/12/2018	7:00	51	66	60	54	41	0.0	2.2	7.2	113	19	63	720
7/12/2018	7:15	56	79	69	55	43	0.0	3.1	8.5	90	20	60	720
7/12/2018	7:30	51	65	61	54	43	0.0	3.1	5.8	113	20	57	720
7/12/2018	7:45	51	65	59	54	45	0.0	2.7	6.7	90	21	55	720
7/12/2018	8:00	51	73	59	53	45	0.0	2.7	5.8	113	21	53	720
7/12/2018	8:15	49	67	60	52	41	0.0	2.2	6.3	113	22	51	720
7/12/2018	8:30	52	72	64	53	43	0.0	2.7	7.2	90	22	51	720
7/12/2018	8:45	52	70	62	55	44	0.0	2.2	5.8	90	23	51	720
7/12/2018	9:00	56	76	68	56	45	0.0	2.7	7.2	90	23	50	720
7/12/2018	9:15	63	82	77	63	53	0.0	2.7	6.7	90	23	50	720
7/12/2018	9:30	58	76	73	57	47	0.0	3.1	7.2	45	22	51	720
7/12/2018	9:45	52	64	60	56	45	0.0	3.1	6.3	90	23	50	720
7/12/2018	10:00	54	73	63	57	45	0.0	2.7	5.8	45	23	51	720
7/12/2018	10:15	52	72	60	55	45	0.0	2.7	6.7	90	23	52	720
7/12/2018	10:30	53	74	62	54	45	0.0	2.2	4.9	68	23	51	720
7/12/2018	10:45	52	75	60	54	43	0.0	2.2	5.8	68	24	51	720
7/12/2018	11:00	52	75	59	54	43	0.0	2.7	5.4	68	24	50	720
7/12/2018	11:15	51	73	59	52	41	0.0	2.2	5.8	90	24	48	720
7/12/2018	11:30	51	67	59	54	45	0.0	2.7	5.8	90	24	47	720
7/12/2018	11:45	50	63	59	54	41	0.0	2.7	7.2	90	25	46	720
7/12/2018	12:00	49	66	58	53	40	0.0	2.7	5.4	90	24	47	720
7/12/2018	12:15	50	65	61	53	42	0.0	2.2	5.4	113	25	46	720
7/12/2018	12:30	52	71	61	54	44	0.0	2.2	5.4	90	25	45	720
7/12/2018	12:45	59	79	66	64	46	0.0	2.2	5.4	113	26	44	720
7/12/2018	13:00	49	63	57	51	42	0.0	2.2	6.3	68	25	45	720
7/12/2018	13:15	48	61	55	51	41	0.0	2.7	5.4	90	25	45	719
7/12/2018	13:30	49	63	57	52	43	0.0	2.7	6.3	113	25	44	719
7/12/2018	13:45	51	69	59	53	44	0.0	2.2	5.8	113	26	42	719
7/12/2018	14:00	47	66	56	49	40	0.0	2.7	6.7	90	25	43	719
7/12/2018	14:15	50	64	58	54	43	0.0	2.7	6.3	68	25	46	719
7/12/2018	14:30	56	74	68	56	44	0.0	2.7	5.4	68	24	48	719
7/12/2018	14:45	55	71	64	57	49	0.0	3.1	7.2	45	25	49	719
7/12/2018	15:00	54	66	62	57	46	0.0	3.1	6.3	68	25	47	719
7/12/2018	15:15	69	85	81	72	45	0.0	2.2	6.7	45	25	47	719
7/12/2018	15:30	52	75	60	54	43	0.0	2.7	6.3	68	25	49	718
7/12/2018	15:45	54	75	64	56	42	0.0	3.1	8.0	45	25	48	719
7/12/2018	16:00	52	66	62	56	43	0.0	2.7	8.0	45	24	48	719
7/12/2018	16:15	54	75	65	57	44	0.0	3.1	6.7	45	24	48	718
7/12/2018	16:30	54	67	64	58	47	0.0	2.7	6.3	68	24	50	718
7/12/2018	16:45	53	66	63	57	44	0.0	3.1	6.7	68	24	48	718
7/12/2018	17:00	54	76	64	57	43	0.0	3.1	6.3	45	23	49	718
7/12/2018	17:15	56	74	67	59	43	0.0	3.1	7.2	45	23	52	719
7/12/2018	17:30	55	69	63	58	47	0.0	3.1	7.2	45	22	55	719
7/12/2018	17:45	53	67	63	56	45	0.0	3.1	6.3	90	22	57	719
7/12/2018	18:00	54	75	64	57	45	0.0	3.1	7.2	45	21	59	719
7/12/2018	18:15	54	74	64	58	43	0.0	2.7	6.3	90	21	60	719
7/12/2018	18:30	60	83	73	60	44	0.0	2.2	4.9	90	20	62	719
7/12/2018	18:45	51	66	61	55	42	0.0	2.7	5.8	68	20	64	719
7/12/2018	19:00	53	66	63	57	43	0.0	2.2	6.3	90	20	66	720
7/12/2018	19:15	52	67	61	55	43	0.0	1.8	5.4	90	19	66	720
7/12/2018	19:30	54	71	64	57	43	0.0	2.2	5.4	68	19	68	720
7/12/2018	19:45	53	66	63	57	46	0.0	1.8	4.0	90	18	71	720
7/12/2018	20:00	53	67	62	56	45	0.0	1.3	6.3	113	18	73	720
7/12/2018	20:15	52	66	62	56	44	0.0	1.3	4.0	90	18	74	720
7/12/2018	20:30	53	68	65	57	41	0.0	0.9	3.1	90	18	75	720
7/12/2018	20:45	49	68	62	50	42	0.0	1.3	4.0	90	17	76	720
7/12/2018	21:00	51	67	63	55	41	0.0	1.3	3.1	90	17	76	720
7/12/2018	21:15	53	68	64	56	39	0.0	1.3	3.6	90	17	75	720
7/12/2018	21:30	52	72	64	55	33	0.0	1.3	3.6	113	17	75	720
7/12/2018	21:45	48	65	61	49	34	0.0	0.9	3.1	90	17	75	720
7/12/2018	22:00	51	66	63	55	36	0.0	1.3	3.6	90	17	76	721
7/12/2018	22:15	53	74	68	51	35	0.0	1.3	4.0	90	17	76	720
7/12/2018	22:30	50	72	61	50	38	0.0	1.3	3.6	113	17	77	720

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018 22:45	50	72	61	53	37	0.0	0.9	3.1	90	16	78	720
7/12/2018 23:00	52	68	63	55	35	0.0	0.9	2.2	113	16	79	720
7/12/2018 23:15	46	63	59	46	33	0.0	0.4	3.1	113	16	79	720
7/12/2018 23:30	53	66	63	58	33	0.0	0.4	2.7	113	16	78	720
7/12/2018 23:45	50	67	62	51	36	0.0	0.4	3.1	113	16	78	720
8/12/2018 0:00	48	71	61	46	32	0.0	0.4	3.1	113	16	77	720
8/12/2018 0:15	51	74	61	50	31	0.0	0.4	2.2	113	16	78	720
8/12/2018 0:30	52	68	66	52	29	0.0	0.4	1.8	113	16	78	720
8/12/2018 0:45	46	64	58	47	31	0.0	0.4	1.8	113	16	78	719
8/12/2018 1:00	45	61	57	47	29	0.0	0.0	1.3	113	16	78	719
8/12/2018 1:15	44	61	57	46	28	0.0	0.4	1.3	113	16	76	719
8/12/2018 1:30	40	52	46	45	28	0.0	0.0	1.3	113	16	77	719
8/12/2018 1:45	42	56	53	45	27	0.0	0.4	1.8	113	16	76	719
8/12/2018 2:00	48	73	59	45	28	0.0	0.4	2.2	113	16	76	719
8/12/2018 2:15	45	60	57	47	32	0.0	0.4	1.3	113	16	76	719
8/12/2018 2:30	40	49	46	45	32	0.0	0.4	1.8	113	16	76	719
8/12/2018 2:45	45	60	57	48	29	0.0	0.4	1.8	113	16	77	719
8/12/2018 3:00	44	60	55	47	31	0.0	0.4	3.1	113	16	77	719
8/12/2018 3:15	48	65	62	52	22	0.0	0.4	2.2	113	16	78	719
8/12/2018 3:30	46	63	59	48	22	0.0	0.4	2.7	113	16	79	719
8/12/2018 3:45	45	67	58	39	24	0.0	0.4	1.3	113	15	79	719
8/12/2018 4:00	50	69	65	50	28	0.0	0.0	1.3	113	15	79	719
8/12/2018 4:15	48	65	61	51	29	0.0	0.4	1.8	113	15	79	719
8/12/2018 4:30	52	66	63	57	32	0.0	0.9	2.7	113	15	79	719
8/12/2018 4:45	52	73	63	56	33	0.0	0.4	1.8	113	15	79	719
8/12/2018 5:00	48	62	59	52	37	0.0	0.0	0.9	113	15	79	719
8/12/2018 5:15	52	67	63	56	39	0.0	0.0	0.9	113	15	80	719
8/12/2018 5:30	48	62	57	52	36	0.0	0.0	0.9	113	15	79	719
8/12/2018 5:45	45	69	57	48	26	0.0	0.0	1.3	113	16	77	719
8/12/2018 6:00	45	62	56	49	33	0.0	0.4	2.2	113	17	75	719
8/12/2018 6:15	45	67	56	48	30	0.0	1.3	3.1	113	18	73	720
8/12/2018 6:30	49	68	60	52	33	0.0	1.3	4.0	113	18	72	720
8/12/2018 6:45	44	68	56	45	32	0.0	1.8	4.5	113	18	72	720
8/12/2018 7:00	45	66	56	48	35	0.0	2.2	6.7	90	19	71	720
8/12/2018 7:15	50	71	60	51	37	0.0	2.2	6.7	90	19	70	720
8/12/2018 7:30	47	65	57	50	34	0.0	2.7	5.4	90	19	69	720
8/12/2018 7:45	51	73	60	54	40	0.0	2.2	6.7	90	20	67	720
8/12/2018 8:00	52	73	62	55	43	0.0	2.7	6.3	90	20	65	720
8/12/2018 8:15	52	71	60	55	45	0.0	3.1	8.0	90	21	63	720
8/12/2018 8:30	51	67	60	55	44	0.0	2.7	6.3	90	21	61	720
8/12/2018 8:45	53	66	62	56	43	0.0	3.1	6.7	68	22	60	720
8/12/2018 9:00	52	65	61	55	44	0.0	2.7	7.2	68	22	58	720
8/12/2018 9:15	52	65	59	55	45	0.0	3.1	6.3	68	22	60	720
8/12/2018 9:30	59	85	70	55	43	0.0	2.2	6.3	90	23	57	720
8/12/2018 9:45	50	71	61	53	43	0.0	2.7	6.3	68	23	56	720
8/12/2018 10:00	69	97	68	54	44	0.0	1.8	5.8	68	23	56	720
8/12/2018 10:15	50	66	57	53	43	0.0	2.7	8.9	90	23	57	720
8/12/2018 10:30	52	65	60	55	47	0.0	2.7	5.8	90	23	56	720
8/12/2018 10:45	49	62	58	53	41	0.0	3.1	7.2	45	24	56	719
8/12/2018 11:00	52	66	60	56	44	0.0	3.1	6.7	68	24	56	720
8/12/2018 11:15	52	73	61	55	43	0.0	3.1	6.3	68	24	56	720
8/12/2018 11:30	51	66	59	54	43	0.0	3.1	7.2	68	23	59	720
8/12/2018 11:45	52	72	61	55	44	0.0	2.2	5.8	68	23	58	719
8/12/2018 12:00	52	70	62	54	40	0.0	2.7	5.4	68	23	59	719
8/12/2018 12:15	52	67	62	56	44	0.0	3.1	5.8	68	24	58	719
8/12/2018 12:30	56	81	68	56	45	0.0	2.7	6.7	90	23	60	719
8/12/2018 12:45	53	66	61	57	48	0.0	2.7	6.3	68	24	58	719
8/12/2018 13:00	53	71	61	55	47	0.0	2.2	5.8	68	23	58	719
8/12/2018 13:15	58	77	71	58	47	0.0	2.2	5.8	68	24	57	719
8/12/2018 13:30	57	71	65	61	52	0.0	2.2	6.3	68	23	58	719
8/12/2018 13:45	54	68	63	58	45	0.0	2.7	6.3	68	23	60	719
8/12/2018 14:00	54	68	63	57	47	0.0	2.2	4.9	90	22	62	719
8/12/2018 14:15	55	72	63	58	50	0.0	1.8	6.7	90	23	61	719
8/12/2018 14:30	55	71	64	57	49	0.0	2.2	4.9	90	23	60	719
8/12/2018 14:45	53	67	62	57	47	0.0	2.7	5.4	68	23	59	719
8/12/2018 15:00	54	68	64	58	47	0.0	2.2	5.8	68	23	58	719
8/12/2018 15:15	55	73	63	58	49	0.0	2.2	5.8	68	23	58	718
8/12/2018 15:30	55	66	63	58	48	0.0	2.2	4.9	90	24	54	718
8/12/2018 15:45	55	69	63	58	49	0.0	2.2	4.9	68	23	54	718
8/12/2018 16:00	59	84	70	58	49	0.0	2.2	5.4	68	23	57	719

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018 16:15	69	97	77	59	46	0.0	2.2	4.9	68	23	56	719
8/12/2018 16:30	53	67	63	57	43	0.0	1.8	4.5	90	24	55	718
8/12/2018 16:45	55	71	66	59	45	0.0	2.2	4.9	90	24	54	718
8/12/2018 17:00	52	69	62	56	42	0.0	2.2	4.9	90	23	55	718
8/12/2018 17:15	53	71	63	57	42	0.0	1.3	4.0	113	24	55	718
8/12/2018 17:30	54	74	64	57	44	0.0	1.8	4.9	113	23	56	719
8/12/2018 17:45	52	73	62	55	41	0.0	2.2	4.9	90	22	59	719
8/12/2018 18:00	60	87	66	57	43	0.0	1.8	4.0	113	22	58	719
8/12/2018 18:15	51	71	62	55	40	0.0	2.2	4.9	90	22	60	719
8/12/2018 18:30	53	67	63	57	40	0.0	1.8	5.4	113	21	62	719
8/12/2018 18:45	53	67	63	58	43	0.0	1.8	4.0	90	21	62	719
8/12/2018 19:00	51	66	62	54	43	0.0	1.3	3.6	90	20	63	720
8/12/2018 19:15	53	74	64	56	41	0.0	1.3	4.0	113	20	65	720
8/12/2018 19:30	53	67	63	58	43	0.0	0.9	2.7	113	20	66	720
8/12/2018 19:45	53	69	64	57	43	0.0	0.9	3.6	113	19	68	720
8/12/2018 20:00	49	64	59	52	42	0.0	0.9	3.1	113	19	69	720
8/12/2018 20:15	53	72	63	57	43	0.0	0.9	2.7	113	19	70	720
8/12/2018 20:30	55	70	65	59	43	0.0	1.3	2.7	90	18	71	720
8/12/2018 20:45	49	63	58	52	41	0.0	0.9	3.1	90	18	73	720
8/12/2018 21:00	49	64	60	52	40	0.0	0.9	3.1	113	18	74	720
8/12/2018 21:15	48	64	58	52	39	0.0	0.9	2.7	90	18	74	720
8/12/2018 21:30	50	66	62	53	40	0.0	0.4	2.7	113	18	75	720
8/12/2018 21:45	50	63	60	55	40	0.0	0.4	2.2	113	17	76	720
8/12/2018 22:00	47	61	57	50	37	0.0	0.4	1.3	90	17	77	720
8/12/2018 22:15	47	63	60	47	37	0.0	0.4	1.3	113	17	77	720
8/12/2018 22:30	47	62	57	50	37	0.0	0.4	1.8	113	17	78	720
8/12/2018 22:45	48	63	59	51	37	0.0	0.0	1.3	113	16	80	720
8/12/2018 23:00	46	64	58	50	37	0.0	0.0	0.4	113	16	81	720
8/12/2018 23:15	44	63	55	45	36	0.0	0.0	0.9	90	16	81	720
8/12/2018 23:30	48	65	60	52	34	0.0	0.4	1.8	113	16	81	720
8/12/2018 23:45	41	57	49	45	35	0.0	0.0	1.8	90	16	82	719
9/12/2018 0:00	43	63	57	44	33	0.0	0.0	0.9	113	16	83	719
9/12/2018 0:15	40	57	51	43	30	0.0	0.0	1.3	113	15	84	719
9/12/2018 0:30	44	63	58	46	30	0.0	0.0	1.3	113	15	84	719
9/12/2018 0:45	38	55	50	41	26	0.0	0.0	1.3	113	15	85	719
9/12/2018 1:00	39	55	48	42	30	0.0	0.0	0.9	113	15	84	719
9/12/2018 1:15	45	61	58	47	33	0.0	0.0	0.4	113	14	87	719
9/12/2018 1:30	40	56	52	43	32	0.0	0.0	0.9	113	14	87	719
9/12/2018 1:45	40	54	48	43	33	0.0	0.0	1.3	90	14	88	719
9/12/2018 2:00	40	46	45	43	36	0.0	0.0	1.3	113	15	86	718
9/12/2018 2:15	40	55	50	43	32	0.0	0.0	1.3	113	15	86	718
9/12/2018 2:30	44	61	57	45	33	0.0	0.4	1.8	113	15	85	718
9/12/2018 2:45	45	59	56	50	31	0.0	0.4	1.8	113	15	85	718
9/12/2018 3:00	41	61	54	42	30	0.0	0.4	2.2	113	15	85	718
9/12/2018 3:15	38	57	48	41	30	0.0	0.4	1.8	113	14	85	718
9/12/2018 3:30	44	61	56	47	32	0.0	0.0	0.9	113	14	86	718
9/12/2018 3:45	44	61	57	46	22	0.0	0.0	0.9	113	14	86	718
9/12/2018 4:00	45	62	57	48	21	0.0	0.0	0.4	113	14	86	718
9/12/2018 4:15	45	62	55	49	27	0.0	0.4	1.3	113	15	86	718
9/12/2018 4:30	49	78	56	48	33	0.0	0.4	1.8	113	15	86	718
9/12/2018 4:45	51	71	63	54	33	0.0	0.0	1.3	113	15	86	718
9/12/2018 5:00	48	71	57	50	32	0.0	0.4	2.2	113	15	87	718
9/12/2018 5:15	50	72	61	51	33	0.0	0.9	3.1	113	16	85	718
9/12/2018 5:30	45	69	56	49	31	0.0	0.9	3.6	113	16	84	718
9/12/2018 5:45	45	68	56	48	31	0.0	0.9	2.7	113	17	80	718
9/12/2018 6:00	44	64	55	47	34	0.0	1.3	4.0	113	18	77	718
9/12/2018 6:15	47	67	58	51	32	0.0	1.3	4.0	113	19	75	718
9/12/2018 6:30	45	65	55	49	32	0.0	1.8	4.9	90	19	75	718
9/12/2018 6:45	45	65	57	47	33	0.0	1.8	4.5	113	19	75	719
9/12/2018 7:00	43	61	55	47	33	0.0	2.2	5.8	113	20	72	719
9/12/2018 7:15	46	62	55	49	36	0.0	2.2	5.4	90	21	71	719
9/12/2018 7:30	48	68	58	51	39	0.0	2.2	5.4	113	21	70	719
9/12/2018 7:45	46	65	56	49	38	0.0	2.2	5.4	90	22	67	719
9/12/2018 8:00	50	66	60	54	42	0.0	2.2	5.8	90	22	66	719
9/12/2018 8:15	48	67	57	51	42	0.0	2.7	5.8	90	23	64	719
9/12/2018 8:30	52	73	61	55	44	0.0	2.7	7.2	90	23	62	719
9/12/2018 8:45	52	73	62	55	43	0.0	2.7	5.8	113	23	62	719
9/12/2018 9:00	49	63	59	52	41	0.0	2.2	5.8	90	24	58	719
9/12/2018 9:15	48	65	58	50	40	0.0	2.2	5.4	90	24	58	719
9/12/2018 9:30	48	62	57	51	40	0.0	2.7	6.3	90	25	55	719

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018 9:45	46	61	54	49	37	0.0	3.1	6.7	45	25	55	719
9/12/2018 10:00	52	76	59	51	42	0.0	2.2	5.4	90	25	54	719
9/12/2018 10:15	49	68	58	51	42	0.0	2.7	6.3	90	25	54	718
9/12/2018 10:30	47	64	57	50	40	0.0	2.7	5.4	68	26	53	718
9/12/2018 10:45	46	63	55	49	39	0.0	2.2	6.3	90	26	51	718
9/12/2018 11:00	49	70	59	50	39	0.0	2.2	5.4	90	26	51	718
9/12/2018 11:15	50	71	62	51	37	0.0	2.7	5.8	68	27	51	718
9/12/2018 11:30	45	65	55	48	34	0.0	2.2	5.8	68	26	51	718
9/12/2018 11:45	50	65	61	54	38	0.0	2.2	6.3	68	27	51	718
9/12/2018 12:00	49	66	60	53	38	0.0	2.2	5.8	90	26	52	718
9/12/2018 12:15	51	65	61	54	40	0.0	1.8	4.9	68	27	50	718
9/12/2018 12:30	51	67	60	55	43	0.0	2.7	6.7	45	27	51	718
9/12/2018 12:45	47	61	57	50	41	0.0	2.2	5.4	68	28	50	718
9/12/2018 13:00	48	62	57	51	40	0.0	2.2	4.9	45	27	48	717
9/12/2018 13:15	48	62	56	51	43	0.0	1.8	4.9	68	28	47	717
9/12/2018 13:30	49	65	59	52	39	0.0	1.8	5.8	68	28	45	717
9/12/2018 13:45	49	64	60	52	40	0.0	1.8	5.4	90	28	46	717
9/12/2018 14:00	46	65	55	48	36	0.0	1.8	5.8	90	27	47	717
9/12/2018 14:15	47	65	56	50	37	0.0	1.8	4.9	90	28	46	717
9/12/2018 14:30	49	64	57	52	42	0.0	1.8	4.9	90	28	43	717
9/12/2018 14:45	49	66	60	51	39	0.0	1.8	4.0	90	29	43	717
9/12/2018 15:00	45	66	57	47	38	0.0	2.2	7.2	68	28	44	717
9/12/2018 15:15	49	70	59	52	38	0.0	1.3	4.9	90	29	41	717
9/12/2018 15:30	52	74	62	52	39	0.0	1.8	4.9	113	29	42	716
9/12/2018 15:45	49	65	58	53	39	0.0	2.2	4.9	68	28	42	716
9/12/2018 16:00	52	77	61	54	41	0.0	2.2	6.3	68	28	42	716
9/12/2018 16:15	50	66	61	53	38	0.0	2.2	5.8	68	28	44	716
9/12/2018 16:30	50	63	59	54	42	0.0	2.2	5.4	90	28	43	716
9/12/2018 16:45	53	73	64	56	41	0.0	2.7	5.8	68	27	45	716
9/12/2018 17:00	58	76	73	58	42	0.0	2.2	5.4	90	27	45	716
9/12/2018 17:15	56	68	64	61	44	0.0	2.2	5.8	68	26	47	716
9/12/2018 17:30	54	66	62	58	41	0.0	2.2	5.4	68	26	48	716
9/12/2018 17:45	58	70	65	61	49	0.0	2.2	5.4	68	26	51	716
9/12/2018 18:00	53	73	64	56	41	0.0	2.7	5.4	45	25	54	716
9/12/2018 18:15	53	68	63	58	42	0.0	2.2	5.8	68	24	56	717
9/12/2018 18:30	54	66	64	58	42	0.0	2.2	5.4	68	23	59	717
9/12/2018 18:45	53	66	64	57	41	0.0	2.7	6.7	68	23	62	717
9/12/2018 19:00	55	69	65	61	44	0.0	2.2	4.9	68	22	64	717
9/12/2018 19:15	52	66	63	56	42	0.0	2.2	6.3	68	22	64	717
9/12/2018 19:30	51	67	63	52	42	0.0	2.2	4.5	68	22	65	717
9/12/2018 19:45	52	68	64	56	43	0.0	1.8	4.9	68	21	66	717
9/12/2018 20:00	52	67	63	54	43	0.0	1.8	4.5	68	21	68	717
9/12/2018 20:15	49	65	59	52	43	0.0	1.8	5.8	68	21	70	717
9/12/2018 20:30	51	64	61	55	43	0.0	2.2	5.4	68	21	70	717
9/12/2018 20:45	52	67	64	56	42	0.0	1.8	5.4	68	20	71	717
9/12/2018 21:00	53	68	65	57	41	0.0	2.2	4.9	68	20	72	717
9/12/2018 21:15	50	65	62	54	43	0.0	1.8	4.5	68	20	73	718
9/12/2018 21:30	48	65	59	50	41	0.0	1.8	4.9	68	20	75	718
9/12/2018 21:45	53	68	64	58	42	0.0	1.8	4.9	68	19	75	718
9/12/2018 22:00	49	66	62	50	41	0.0	1.3	4.0	90	19	76	718
9/12/2018 22:15	47	64	60	50	38	0.0	1.3	3.6	90	19	77	718
9/12/2018 22:30	48	70	60	48	40	0.0	1.8	4.0	90	19	78	718
9/12/2018 22:45	50	66	64	48	40	0.0	1.3	4.0	90	18	80	718
9/12/2018 23:00	47	62	59	50	41	0.0	1.8	4.9	68	18	80	718
9/12/2018 23:15	42	54	50	44	39	0.0	1.8	4.9	68	18	81	718
9/12/2018 23:30	45	64	58	44	37	0.0	1.3	2.7	90	18	83	718
9/12/2018 23:45	48	65	61	49	32	0.0	1.3	4.0	90	18	84	718
10/12/2018 0:00	45	64	58	43	36	0.0	1.3	3.1	90	17	85	718
10/12/2018 0:15	43	58	53	46	36	0.0	0.4	2.2	90	17	86	718
10/12/2018 0:30	48	64	62	43	34	0.0	0.4	2.7	90	17	86	717
10/12/2018 0:45	46	63	60	44	34	0.0	0.4	2.2	113	17	86	717
10/12/2018 1:00	39	54	47	41	34	0.0	0.0	1.3	90	17	86	717
10/12/2018 1:15	42	56	53	42	36	0.0	0.4	2.7	90	17	87	717
10/12/2018 1:30	52	71	66	46	36	0.0	0.4	2.2	90	17	88	717
10/12/2018 1:45	45	64	58	43	35	0.0	0.4	1.8	90	17	88	717
10/12/2018 2:00	48	63	60	50	34	0.0	0.4	2.2	90	17	89	717
10/12/2018 2:15	40	55	52	42	32	0.0	0.0	1.8	90	17	89	717
10/12/2018 2:30	45	61	58	46	31	0.0	0.0	1.3	113	17	90	716
10/12/2018 2:45	49	67	63	51	31	0.0	0.0	1.8	90	16	89	717
10/12/2018 3:00	45	60	57	49	29	0.0	0.0	1.3	113	16	90	716

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018 3:15	47	63	60	50	26	0.0	0.0	1.3	113	16	91	716
10/12/2018 3:30	48	62	58	53	28	0.0	0.0	0.9	113	17	90	716
10/12/2018 3:45	43	61	55	45	25	0.0	0.0	0.9	113	17	90	716
10/12/2018 4:00	49	63	59	53	31	0.0	0.0	0.9	113	17	90	716
10/12/2018 4:15	47	61	57	51	35	0.0	0.0	1.3	113	17	90	716
10/12/2018 4:30	51	71	63	53	35	0.0	0.0	0.4	113	17	89	717
10/12/2018 4:45	54	82	64	52	34	0.0	0.0	0.9	113	17	88	717
10/12/2018 5:00	57	85	69	57	41	0.0	0.0	0.4	113	17	88	717
10/12/2018 5:15	49	66	58	52	39	0.0	0.0	0.4	113	17	88	717
10/12/2018 5:30	48	70	57	51	40	0.0	0.0	0.0	0	18	88	717
10/12/2018 5:45	47	58	55	51	37	0.0	0.0	1.3	113	18	85	717
10/12/2018 6:00	49	65	56	52	39	0.0	0.4	2.2	113	19	84	717
10/12/2018 6:15	46	61	55	51	33	0.0	0.4	2.2	113	20	81	717
10/12/2018 6:30	50	74	60	48	37	0.0	0.9	2.7	90	20	79	717
10/12/2018 6:45	61	74	68	67	38	0.0	0.9	4.0	113	20	79	717
10/12/2018 7:00	64	80	75	64	55	0.0	1.3	4.5	90	20	77	717
10/12/2018 7:15	59	69	65	63	38	0.0	1.3	3.6	90	21	74	718
10/12/2018 7:30	53	68	63	57	38	0.0	1.8	3.6	68	22	72	718
10/12/2018 7:45	53	70	63	57	41	0.0	1.3	4.0	90	21	71	718
10/12/2018 8:00	53	74	64	55	41	0.0	1.3	4.9	90	23	65	718
10/12/2018 8:15	51	67	61	54	42	0.0	1.8	4.9	68	23	67	718
10/12/2018 8:30	52	73	61	55	39	0.0	1.8	4.0	90	23	67	718
10/12/2018 8:45	49	66	59	53	39	0.0	1.3	4.0	90	24	61	718
10/12/2018 9:00	55	75	69	55	41	0.0	1.8	4.5	90	24	60	718
10/12/2018 9:15	51	64	61	55	39	0.0	1.8	4.5	90	24	60	717
10/12/2018 9:30	49	63	58	53	41	0.0	1.3	4.5	90	25	59	717
10/12/2018 9:45	57	81	68	53	42	0.0	1.3	4.5	90	25	57	717
10/12/2018 10:00	49	71	57	51	41	0.0	1.3	4.0	90	25	57	717
10/12/2018 10:15	49	68	61	51	36	0.0	1.3	4.0	90	27	51	717
10/12/2018 10:30	48	59	55	52	40	0.0	1.8	4.9	113	26	52	717
10/12/2018 10:45	46	62	56	49	40	0.0	0.9	4.0	90	26	51	717
10/12/2018 11:00	47	60	55	50	39	0.0	0.9	4.0	90	27	49	717
10/12/2018 11:15	48	60	58	52	39	0.0	1.3	4.0	113	28	47	717
10/12/2018 11:30	49	74	60	51	36	0.0	1.3	4.0	113	28	47	717
10/12/2018 11:45	45	59	54	49	37	0.0	1.3	4.9	113	29	44	717
10/12/2018 12:00	48	67	58	50	38	0.0	1.3	3.6	113	29	44	717
10/12/2018 12:15	51	75	61	51	37	0.0	1.3	4.5	113	29	43	717
10/12/2018 12:30	47	66	56	49	39	0.0	1.3	4.0	90	29	44	717
10/12/2018 12:45	49	67	60	49	40	0.0	1.3	4.5	113	30	39	717
10/12/2018 13:00	46	59	55	50	35	0.0	1.3	4.5	113	30	41	716
10/12/2018 13:15	45	59	53	49	36	0.0	1.3	4.0	113	30	41	716
10/12/2018 13:30	51	76	58	50	37	0.0	0.9	3.6	113	30	39	716
10/12/2018 13:45	53	77	64	53	38	0.0	1.3	4.0	90	30	40	716
10/12/2018 14:00	49	62	58	53	35	0.0	0.9	3.1	90	31	39	716
10/12/2018 14:15	46	62	55	49	37	0.0	1.3	5.4	113	30	40	716
10/12/2018 14:30	52	71	63	55	41	0.0	1.3	3.6	90	30	41	715
10/12/2018 14:45	46	61	54	49	40	0.0	1.8	4.9	68	30	39	715
10/12/2018 15:00	49	69	59	53	38	0.0	1.3	5.4	90	31	39	715
10/12/2018 15:15	48	65	59	51	40	0.0	1.8	4.9	68	30	40	715
10/12/2018 15:30	49	62	57	53	40	0.0	1.3	3.6	90	31	39	715
10/12/2018 15:45	49	63	59	52	38	0.0	1.8	4.9	90	30	41	715
10/12/2018 16:00	49	70	58	52	39	0.0	2.2	5.4	68	30	41	715
10/12/2018 16:15	50	65	59	54	38	0.0	1.8	4.0	90	29	41	715
10/12/2018 16:30	54	75	65	57	41	0.0	2.2	4.5	68	29	42	715
10/12/2018 16:45	57	77	65	61	39	0.0	1.8	5.8	90	29	43	715
10/12/2018 17:00	53	66	63	58	41	0.0	1.8	5.4	68	29	43	715
10/12/2018 17:15	52	67	61	56	39	0.0	2.2	5.8	68	28	43	715
10/12/2018 17:30	53	68	62	58	36	0.0	2.2	4.5	68	28	43	715
10/12/2018 17:45	54	73	65	58	37	0.0	1.8	4.5	68	28	44	715
10/12/2018 18:00	54	71	64	59	37	0.0	1.8	4.5	68	27	45	715
10/12/2018 18:15	55	72	65	59	38	0.0	1.8	3.6	68	27	45	715
10/12/2018 18:30	54	69	65	59	36	0.0	1.3	3.1	90	26	47	715
10/12/2018 18:45	55	68	66	59	38	0.0	0.9	2.7	90	26	49	715
10/12/2018 19:00	55	68	64	59	44	0.0	1.3	3.1	90	25	50	716
10/12/2018 19:15	54	67	63	59	42	0.0	0.9	4.0	90	25	53	716
10/12/2018 19:30	54	67	64	58	40	0.0	1.8	3.6	90	25	54	716
10/12/2018 19:45	55	68	64	60	43	0.0	1.8	4.9	68	24	57	716
10/12/2018 20:00	51	67	62	54	40	0.0	1.8	4.5	68	24	59	716
10/12/2018 20:15	51	67	63	54	40	0.0	2.2	5.4	68	23	61	716
10/12/2018 20:30	54	67	64	59	42	0.0	2.2	6.3	68	23	64	716

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	20:45	55	78	65	58	41	0.0	2.2	4.9	68	23	66	716
10/12/2018	21:00	52	67	64	56	41	0.0	2.2	4.9	68	22	68	716
10/12/2018	21:15	53	65	63	57	40	0.0	2.2	4.9	68	22	69	716
10/12/2018	21:30	51	68	63	52	40	0.0	2.2	4.9	68	21	70	716
10/12/2018	21:45	52	67	63	54	40	0.0	2.2	5.8	68	21	71	717
10/12/2018	22:00	53	67	63	58	40	0.0	1.8	4.5	68	21	72	717
10/12/2018	22:15	52	69	64	55	40	0.0	1.8	4.5	68	20	73	717
10/12/2018	22:30	52	68	63	56	41	0.0	1.3	4.0	90	20	75	717
10/12/2018	22:45	51	68	62	53	41	0.0	1.3	4.0	90	20	76	717
10/12/2018	23:00	51	68	63	53	41	0.0	1.8	4.0	90	20	77	717
10/12/2018	23:15	47	64	57	49	40	0.0	0.9	3.6	90	19	78	717
10/12/2018	23:30	51	65	63	55	41	0.0	0.0	1.8	90	19	80	717
10/12/2018	23:45	48	63	59	50	40	0.0	0.4	2.2	90	19	80	717
11/12/2018	0:00	48	65	60	49	39	0.0	0.4	2.2	90	18	81	717
11/12/2018	0:15	46	62	59	47	39	0.0	0.4	2.2	90	18	82	717
11/12/2018	0:30	51	69	62	54	40	0.0	0.9	2.7	90	18	83	716
11/12/2018	0:45	48	64	59	49	40	0.0	0.9	3.1	90	18	85	716
11/12/2018	1:00	49	64	61	51	40	0.0	0.9	2.7	90	18	86	716
11/12/2018	1:15	48	67	61	48	39	0.0	0.9	2.7	90	17	86	716
11/12/2018	1:30	48	66	60	48	38	0.0	0.4	2.2	90	17	87	716
11/12/2018	1:45	50	68	64	49	40	0.0	0.9	2.2	90	17	88	716
11/12/2018	2:00	48	66	61	47	39	0.0	0.9	1.8	90	17	88	716
11/12/2018	2:15	44	59	53	47	38	0.0	0.9	2.2	90	17	89	716
11/12/2018	2:30	46	63	57	47	37	0.0	0.4	3.1	90	17	89	716
11/12/2018	2:45	45	60	57	46	32	0.0	0.4	1.8	90	17	89	716
11/12/2018	3:00	50	63	61	55	33	0.0	0.4	1.8	90	17	90	716
11/12/2018	3:15	44	61	56	46	29	0.0	0.0	1.8	90	17	90	716
11/12/2018	3:30	55	77	69	56	31	0.0	0.0	0.9	113	16	91	716
11/12/2018	3:45	48	66	60	51	30	0.0	0.0	0.4	113	16	91	716
11/12/2018	4:00	48	63	59	53	32	0.0	0.0	0.9	113	16	92	716
11/12/2018	4:15	50	63	59	55	36	0.0	0.0	1.3	113	16	92	716
11/12/2018	4:30	51	72	60	55	36	0.0	0.0	0.4	113	15	92	716
11/12/2018	4:45	51	68	60	56	35	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:00	53	81	60	55	36	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:15	52	73	66	55	36	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:30	64	72	68	66	41	0.0	0.0	0.4	113	15	93	717
11/12/2018	5:45	51	67	58	55	38	0.0	0.0	0.9	90	17	89	717
11/12/2018	6:00	50	71	59	54	36	0.0	0.4	1.8	90	19	83	717
11/12/2018	6:15	52	64	61	56	37	0.0	0.9	2.2	90	20	80	717
11/12/2018	6:30	52	74	62	54	37	0.0	0.9	2.7	90	20	77	717
11/12/2018	6:45	53	71	61	57	38	0.0	1.3	3.1	90	21	74	717
11/12/2018	7:00	48	65	59	52	34	0.0	1.3	3.1	90	22	72	717
11/12/2018	7:15	57	79	71	56	39	0.0	1.3	3.6	90	22	69	717
11/12/2018	7:30	51	65	61	54	40	0.0	1.3	4.0	90	22	68	717
11/12/2018	7:45	47	69	57	49	36	0.0	1.3	3.1	90	23	64	717
11/12/2018	8:00	53	75	66	51	37	0.0	0.9	3.6	90	23	64	717
11/12/2018	8:15	46	61	56	50	35	0.0	0.9	3.1	90	24	61	718
11/12/2018	8:30	47	69	57	50	36	0.0	0.9	3.1	90	25	59	718
11/12/2018	8:45	50	72	61	52	35	0.0	0.4	2.7	90	26	57	717
11/12/2018	9:00	46	62	55	49	33	0.0	1.3	4.0	113	25	55	718
11/12/2018	9:15	49	68	55	50	45	0.0	1.3	3.6	90	25	56	717
11/12/2018	9:30	51	68	61	54	35	0.0	1.3	4.0	90	26	55	717
11/12/2018	9:45	48	60	57	51	43	0.0	1.3	5.8	90	27	51	717
11/12/2018	10:00	52	74	60	55	39	0.0	1.3	5.8	113	27	50	718
11/12/2018	10:15	48	62	56	51	39	0.0	1.3	4.0	90	27	51	717
11/12/2018	10:30	49	67	59	52	37	0.0	1.3	4.5	90	28	47	717
11/12/2018	10:45	46	67	55	49	34	0.0	1.3	4.0	68	28	47	717
11/12/2018	11:00	49	70	60	51	39	0.0	1.8	4.5	90	28	47	717
11/12/2018	11:15	46	61	57	50	35	0.0	1.3	5.4	90	29	45	717
11/12/2018	11:30	50	68	62	53	38	0.0	1.3	3.6	90	29	42	717
11/12/2018	11:45	47	64	56	51	35	0.0	1.3	4.0	90	29	42	717
11/12/2018	12:00	48	62	58	52	37	0.0	1.8	4.9	90	29	44	717
11/12/2018	12:15	49	73	57	51	39	0.0	1.3	4.5	90	29	43	717
11/12/2018	12:30	49	64	59	53	40	0.0	1.3	4.9	90	30	42	717
11/12/2018	12:45	47	64	56	50	39	0.0	1.8	4.5	90	30	40	716
11/12/2018	13:00	48	62	57	51	39	0.0	1.3	4.9	90	30	40	716
11/12/2018	13:15	49	66	61	52	39	0.0	1.8	5.4	90	30	41	716
11/12/2018	13:30	48	62	55	51	41	0.0	1.3	4.9	113	30	40	716
11/12/2018	13:45	48	65	56	51	40	0.0	2.2	5.8	68	30	40	716
11/12/2018	14:00	50	73	58	52	38	0.0	1.8	4.9	90	31	39	716

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	14:15	48	67	57	51	38	0.0	1.8	5.4	90	31	40	716
11/12/2018	14:30	47	65	56	51	39	0.0	2.2	6.3	90	30	40	715
11/12/2018	14:45	49	63	57	53	39	0.0	1.8	4.9	90	30	41	715
11/12/2018	15:00	50	64	59	54	40	0.0	1.8	5.4	113	30	39	715
11/12/2018	15:15	55	79	63	55	38	0.0	1.8	4.5	90	30	40	715
11/12/2018	15:30	50	64	60	54	40	0.0	2.2	6.7	90	29	40	715
11/12/2018	15:45	53	65	61	57	41	0.0	2.2	5.4	68	29	40	715
11/12/2018	16:00	51	68	60	55	41	0.0	2.2	4.9	68	30	40	715
11/12/2018	16:15	52	72	60	55	38	0.0	1.8	5.4	90	30	40	714
11/12/2018	16:30	50	65	59	55	39	0.0	2.2	5.8	90	29	40	714
11/12/2018	16:45	53	65	62	57	41	0.0	2.2	4.9	68	29	41	715
11/12/2018	17:00	53	66	63	57	38	0.0	2.2	5.8	68	29	42	715
11/12/2018	17:15	54	65	63	58	40	0.0	2.2	4.9	68	29	42	715
11/12/2018	17:30	54	72	63	59	40	0.0	2.2	6.3	68	28	44	715
11/12/2018	17:45	54	66	63	59	42	0.0	2.2	5.8	45	27	46	715
11/12/2018	18:00	54	68	64	58	40	0.0	2.2	6.3	45	27	48	715
11/12/2018	18:15	54	67	64	58	42	0.0	2.2	6.3	68	26	50	715
11/12/2018	18:30	56	69	65	60	41	0.0	2.7	5.4	45	26	53	715
11/12/2018	18:45	55	67	64	60	44	0.0	2.7	5.8	68	25	56	715
11/12/2018	19:00	55	69	65	60	44	0.0	2.7	7.2	45	25	57	715
11/12/2018	19:15	55	70	65	59	42	0.0	2.7	5.8	68	24	59	715
11/12/2018	19:30	53	67	62	56	43	0.0	2.7	6.3	45	24	60	716
11/12/2018	19:45	53	66	62	57	44	0.0	2.7	6.7	68	23	62	716
11/12/2018	20:00	53	67	63	57	43	0.0	2.7	6.3	45	23	64	716
11/12/2018	20:15	57	69	65	61	47	0.0	2.7	6.3	68	23	65	717
11/12/2018	20:30	55	68	64	58	47	0.0	2.7	7.2	68	22	66	717
11/12/2018	20:45	56	71	64	60	47	0.0	2.7	5.8	45	22	68	717
11/12/2018	21:00	56	69	66	60	47	0.0	2.2	4.5	45	21	70	716
11/12/2018	21:15	54	67	63	58	46	0.0	2.7	6.7	45	21	71	717
11/12/2018	21:30	54	69	64	57	44	0.0	2.7	6.3	45	21	73	717
11/12/2018	21:45	52	66	61	55	42	0.0	2.2	5.4	68	21	75	717
11/12/2018	22:00	54	67	63	58	44	0.0	1.8	4.5	68	20	76	717
11/12/2018	22:15	53	71	64	57	41	0.0	1.8	5.8	68	20	77	717
11/12/2018	22:30	53	72	63	56	40	0.0	2.2	5.8	68	20	78	717
11/12/2018	22:45	54	68	64	58	38	0.0	1.8	4.5	68	20	78	717
11/12/2018	23:00	52	68	64	53	38	0.0	1.3	3.6	68	20	79	717
11/12/2018	23:15	53	68	64	56	38	0.0	1.8	4.0	68	19	80	717
11/12/2018	23:30	53	70	64	56	37	0.0	1.3	4.0	68	19	81	717
11/12/2018	23:45	50	64	61	52	38	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:00	51	67	63	56	40	0.0	1.8	4.0	68	19	81	716
12/12/2018	0:15	51	66	62	55	40	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:30	54	67	64	59	40	0.0	0.9	3.1	90	19	81	716
12/12/2018	0:45	49	64	61	52	39	0.0	0.9	3.1	90	19	82	716
12/12/2018	1:00	49	64	61	52	37	0.0	0.9	3.6	90	19	83	716
12/12/2018	1:15	49	65	62	51	31	0.0	0.9	2.2	90	18	84	716
12/12/2018	1:30	53	66	64	57	30	0.0	1.3	4.0	90	18	83	716
12/12/2018	1:45	47	63	59	50	30	0.0	1.8	4.0	90	18	83	715
12/12/2018	2:00	43	60	57	46	30	0.0	1.8	4.5	90	18	83	715
12/12/2018	2:15	45	61	56	48	30	0.0	1.8	4.0	68	18	84	715
12/12/2018	2:30	51	63	61	56	33	0.0	1.8	4.9	68	18	84	715
12/12/2018	2:45	50	64	62	55	29	0.0	1.8	4.0	68	18	85	715
12/12/2018	3:00	51	65	63	56	32	0.0	1.3	4.0	90	18	86	715
12/12/2018	3:15	52	66	63	57	31	0.0	0.4	2.2	113	18	87	715
12/12/2018	3:30	52	68	64	56	31	0.0	0.0	1.3	113	18	87	715
12/12/2018	3:45	56	78	69	53	34	0.0	0.4	1.8	90	17	87	715
12/12/2018	4:00	56	67	66	61	36	0.0	0.9	3.1	90	18	85	715
12/12/2018	4:15	57	72	69	61	32	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:30	54	70	65	59	32	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:45	54	74	65	58	30	0.0	0.0	1.3	90	17	86	715
12/12/2018	5:00	54	67	63	59	32	0.0	0.4	1.8	90	17	86	715
12/12/2018	5:15	56	66	64	61	30	0.0	0.4	2.7	90	17	86	715
12/12/2018	5:30	52	65	60	56	37	0.0	0.4	1.8	113	18	86	715
12/12/2018	5:45	51	63	60	56	34	0.0	0.9	4.5	90	19	83	715
12/12/2018	6:00	52	66	62	57	31	0.0	1.8	3.6	68	19	80	715
12/12/2018	6:15	53	73	62	56	38	0.0	1.8	4.5	68	20	79	715
12/12/2018	6:30	58	80	72	57	38	0.0	1.8	4.5	68	20	78	715
12/12/2018	6:45	54	74	64	58	38	0.0	1.3	4.5	90	20	76	716
12/12/2018	7:00	52	70	63	56	37	0.0	1.8	4.0	68	21	73	716
12/12/2018	7:15	51	66	62	54	36	0.0	1.3	4.0	90	22	70	716
12/12/2018	7:30	57	71	69	58	46	0.0	1.3	4.5	90	22	67	716

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018 7:45	50	64	60	54	38	0.0	1.3	4.0	90	23	65	716
12/12/2018 8:00	50	72	61	52	36	0.0	1.3	3.1	90	23	64	716
12/12/2018 8:15	53	75	65	57	34	0.0	1.3	3.1	90	24	60	716
12/12/2018 8:30	51	71	61	53	38	0.0	1.3	4.5	90	24	61	716
12/12/2018 8:45	52	65	60	56	42	0.0	1.8	4.0	68	25	57	716
12/12/2018 9:00	55	85	61	55	44	0.0	1.8	4.9	90	25	55	716
12/12/2018 9:15	54	76	63	56	43	0.0	1.8	5.4	90	25	54	716
12/12/2018 9:30	50	73	59	53	43	0.0	1.8	4.9	90	26	52	716
12/12/2018 9:45	50	74	59	49	40	0.0	1.8	4.9	90	26	53	716
12/12/2018 10:00	54	81	66	54	40	0.0	1.3	4.5	90	27	52	716
12/12/2018 10:15	50	67	61	53	42	0.0	1.8	4.0	90	27	48	716
12/12/2018 10:30	53	77	63	52	39	0.0	1.3	5.4	113	27	48	716
12/12/2018 10:45	50	75	58	50	37	0.0	1.3	4.5	90	28	47	716
12/12/2018 11:00	47	58	55	51	41	0.0	1.3	4.5	90	28	46	715
12/12/2018 11:15	49	72	57	51	38	0.0	1.3	3.1	90	29	43	715
12/12/2018 11:30	46	63	56	49	37	0.0	1.3	4.5	90	29	44	715
12/12/2018 11:45	48	61	57	52	36	0.0	1.8	4.0	90	30	41	715
12/12/2018 12:00	49	65	58	53	41	0.0	1.3	4.5	90	30	41	715
12/12/2018 12:15	50	68	60	53	37	0.0	0.9	4.5	90	31	40	715
12/12/2018 12:30	51	66	61	55	40	0.0	1.8	4.5	90	31	40	714
12/12/2018 12:45	52	72	62	53	41	0.0	1.3	4.0	90	31	40	714
12/12/2018 13:00	50	65	60	54	37	0.0	1.3	4.9	113	31	39	714
12/12/2018 13:15	48	64	59	52	39	0.0	1.3	4.0	90	32	38	714
12/12/2018 13:30	52	74	62	54	35	0.0	1.3	4.5	90	32	38	714
12/12/2018 13:45	52	76	61	53	34	0.0	1.3	3.6	113	32	39	714
12/12/2018 14:00	50	71	60	54	35	0.0	1.8	4.5	90	32	40	713
12/12/2018 14:15	51	69	61	54	38	0.0	1.8	4.9	90	32	38	713
12/12/2018 14:30	48	71	57	50	34	0.0	1.8	4.9	90	31	39	713
12/12/2018 14:45	52	71	62	55	41	0.0	1.8	5.4	113	31	39	713
12/12/2018 15:00	58	81	71	54	41	0.0	1.8	4.5	90	32	39	713
12/12/2018 15:15	51	71	61	55	37	0.0	1.3	3.6	90	32	38	713
12/12/2018 15:30	48	62	58	52	36	0.0	1.3	5.4	90	32	39	713
12/12/2018 15:45	52	66	61	56	35	0.0	1.3	3.6	113	31	39	713
12/12/2018 16:00	50	65	58	54	38	0.0	1.3	4.0	90	31	40	713
12/12/2018 16:15	55	66	63	59	39	0.0	1.3	4.0	90	30	41	712
12/12/2018 16:30	51	67	61	55	38	0.0	1.8	4.5	90	30	42	712
12/12/2018 16:45	53	65	63	57	40	0.0	1.8	3.6	90	30	43	712
12/12/2018 17:00	54	66	63	58	41	0.0	1.3	4.9	90	29	43	712
12/12/2018 17:15	54	65	62	59	42	0.0	1.8	4.9	68	29	44	712
12/12/2018 17:30	53	72	63	58	40	0.0	2.7	5.4	68	29	45	712
12/12/2018 17:45	55	70	64	59	44	0.0	2.2	5.8	68	28	46	713
12/12/2018 18:00	51	66	60	54	41	0.0	2.7	5.4	68	28	47	713
12/12/2018 18:15	56	69	66	60	43	0.0	2.7	6.3	68	27	48	713
12/12/2018 18:30	54	69	63	58	43	0.0	2.7	5.8	45	26	51	713
12/12/2018 18:45	54	68	64	58	45	0.0	3.1	7.2	68	26	53	713
12/12/2018 19:00	56	71	66	60	47	0.0	3.1	7.2	45	25	55	713
12/12/2018 19:15	55	69	63	58	47	0.0	3.1	6.7	45	25	57	713
12/12/2018 19:30	56	76	65	60	47	0.0	3.1	7.2	45	24	59	713
12/12/2018 19:45	54	69	64	58	43	0.0	3.1	6.7	45	24	62	713
12/12/2018 20:00	55	72	64	59	43	0.0	3.6	7.2	45	23	63	713
12/12/2018 20:15	54	68	63	58	45	0.0	3.1	6.3	45	23	65	713
12/12/2018 20:30	54	69	64	57	43	0.0	2.2	6.3	45	23	66	713
12/12/2018 20:45	53	69	63	58	41	0.0	2.7	5.8	68	22	67	713
12/12/2018 21:00	54	69	65	58	40	0.0	2.7	5.8	68	22	69	714
12/12/2018 21:15	50	65	60	53	39	0.0	2.7	6.7	45	22	70	713
12/12/2018 21:30	51	66	62	56	39	0.0	2.7	6.3	45	21	72	714
12/12/2018 21:45	51	71	63	54	40	0.0	2.2	5.8	68	21	73	714
12/12/2018 22:00	53	65	62	58	39	0.0	2.2	5.4	68	21	75	714
12/12/2018 22:15	51	68	64	54	36	0.0	2.2	5.8	68	21	76	714
12/12/2018 22:30	52	65	63	57	38	0.0	2.2	6.3	68	21	77	714
12/12/2018 22:45	50	65	62	54	37	0.0	2.2	5.8	68	21	77	714
12/12/2018 23:00	53	70	64	57	37	0.0	1.8	4.9	90	20	77	714
12/12/2018 23:15	50	67	62	54	38	0.0	1.8	4.9	90	20	78	714
12/12/2018 23:30	50	66	62	53	38	0.0	1.3	2.7	90	20	79	714
12/12/2018 23:45	51	66	64	52	41	0.0	1.8	4.5	90	20	82	713
13/12/2018 0:00	52	71	63	54	45	0.0	1.3	3.6	68	20	82	713
13/12/2018 0:15	47	64	60	47	43	0.0	1.3	4.0	68	20	81	713
13/12/2018 0:30	49	68	61	49	42	0.0	0.9	2.7	90	20	81	713
13/12/2018 0:45	51	69	63	51	40	0.0	0.9	3.1	90	19	82	713
13/12/2018 1:00	47	63	59	49	40	0.0	0.9	2.7	90	19	82	713

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
13/12/2018 1:15	48	65	60	49	40	0.0	1.3	6.3	68	19	83	713
13/12/2018 1:30	49	65	62	50	37	0.0	1.3	4.5	90	19	84	712
13/12/2018 1:45	50	67	62	51	39	0.0	0.9	2.2	90	19	84	713
13/12/2018 2:00	50	65	62	52	39	0.0	0.4	2.7	90	19	84	712
13/12/2018 2:15	49	67	62	49	39	0.0	0.4	1.8	158	19	84	712
13/12/2018 2:30	43	59	51	47	36	0.0	0.9	4.5	90	19	84	711
13/12/2018 2:45	48	65	61	49	36	0.0	2.2	6.3	45	19	84	711
13/12/2018 3:00	52	68	63	55	40	0.0	1.8	5.4	68	19	85	712
13/12/2018 3:15	52	66	63	56	41	0.0	0.0	0.9	158	19	85	712
13/12/2018 3:30	52	67	63	52	47	0.0	0.0	1.3	90	19	86	712
13/12/2018 3:45	55	76	69	53	44	0.0	0.0	0.9	90	19	86	712
13/12/2018 4:00	50	67	62	53	42	0.0	0.0	0.9	90	18	86	712
13/12/2018 4:15	58	73	68	63	42	0.0	0.0	0.4	113	18	86	712
13/12/2018 4:30	56	72	66	60	42	0.0	0.0	0.9	90	18	86	712
13/12/2018 4:45	62	80	71	63	45	0.0	0.0	0.9	90	18	86	712
13/12/2018 5:00	50	69	60	54	42	0.0	0.0	0.4	113	18	87	713
13/12/2018 5:15	52	64	61	56	41	0.0	0.0	0.0	0	18	88	713
13/12/2018 5:30	56	65	63	60	38	0.0	0.0	0.0	0	18	88	713
13/12/2018 5:45	53	70	63	57	33	0.0	0.0	0.4	113	18	87	713
13/12/2018 6:00	55	67	65	61	34	0.0	0.0	0.9	113	19	85	713
13/12/2018 6:15	55	68	64	59	38	0.0	0.9	3.1	0	21	77	713
13/12/2018 6:30	57	78	65	60	36	0.0	1.3	3.6	0	22	75	713
13/12/2018 6:45	57	78	67	60	40	0.0	1.3	2.2	90	22	73	713
13/12/2018 7:00	56	73	66	61	38	0.0	0.9	2.2	158	22	74	713
13/12/2018 7:15	55	69	65	59	39	0.0	0.9	2.2	113	22	73	713
13/12/2018 7:30	55	70	65	60	41	0.0	0.4	2.7	90	22	72	713
13/12/2018 7:45	56	68	64	60	41	0.0	0.4	1.3	90	22	71	713
13/12/2018 8:00	55	74	65	59	42	0.0	0.4	1.8	158	22	70	713
13/12/2018 8:15	56	73	66	60	42	0.0	0.4	1.8	90	23	69	713
13/12/2018 8:30	59	77	69	63	47	0.0	0.9	2.7	158	24	66	713
13/12/2018 8:45	56	72	65	60	44	0.0	1.3	3.1	158	25	63	713
13/12/2018 9:00	58	70	67	63	43	0.0	1.3	3.6	90	25	62	713
13/12/2018 9:15	57	73	66	61	46	0.0	1.3	3.6	90	25	61	712
13/12/2018 9:30	56	68	65	59	47	0.0	1.3	3.1	90	25	59	712

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_07

From	Thursday 6/12/2018 13:15	Meas. Type	Free Field	Package	Border to Gowrie
To	Thursday 13/12/2018 10:30	Mic. Height (m)	1.8	Address	2B Short Street
Instrument Type	Larson Davis 831	Weather Station	Yes	Suburb	Pittsworth
Instrument Serial #	3340	Operator	JR	Land Use	Residential
Inst. Cal. Date	10/11/2017	Sample Int.	15 min	Latitude	27°42'29.79"S
Pre Calibration	94	RP Lot#	15RP178514	Longitude	151°38'6.47"E
Post Calibration	94				

Daytime

RBL **35.3 dB(A)**

ABLs Day (Mon-Fri 7am - 6 pm)

ABLs Day (Sat 8 am - 1 pm)

Thursday 6/12/2018	39.7	dB(A)
Friday 7/12/2018	39.3	dB(A)
Saturday 8/12/2018	39.4	dB(A)
Monday 10/12/2018	33.3	dB(A)
Tuesday 11/12/2018	34.8	dB(A)
Wednesday 12/12/2018	34.9	dB(A)
Thursday 13/12/2018	35.3	dB(A)

Evening

RBL **39.9 dB(A)**

ABLs Evening (Mon-Fri 6 pm - 10 pm)

ABLs Evening (Sat 1 pm - 10 pm)

ABLs Evening (Sun 7 am - 10 pm)

Thursday 6/12/2018	42.1	dB(A)
Friday 7/12/2018	38.7	dB(A)
Saturday 8/12/2018	37.9	dB(A)
Sunday 9/12/2018	37.6	dB(A)
Monday 10/12/2018	39.9	dB(A)
Tuesday 11/12/2018	41.7	dB(A)
Wednesday 12/12/2018	43.8	dB(A)

Night

RBL **26.9 dB(A)**

ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)

ABLs Night (Fri 6pm - 8am)

Thursday 6/12/2018	26.9	dB(A)
Friday 7/12/2018	<23	dB(A)
Saturday 8/12/2018	<23	dB(A)
Sunday 9/12/2018	28.5	dB(A)
Monday 10/12/2018	26.4	dB(A)
Tuesday 11/12/2018	29.6	dB(A)
Wednesday 12/12/2018	33.6	dB(A)

Site Diagram - Diagram

Future Freight
Integrating Community, Environment and Engineering

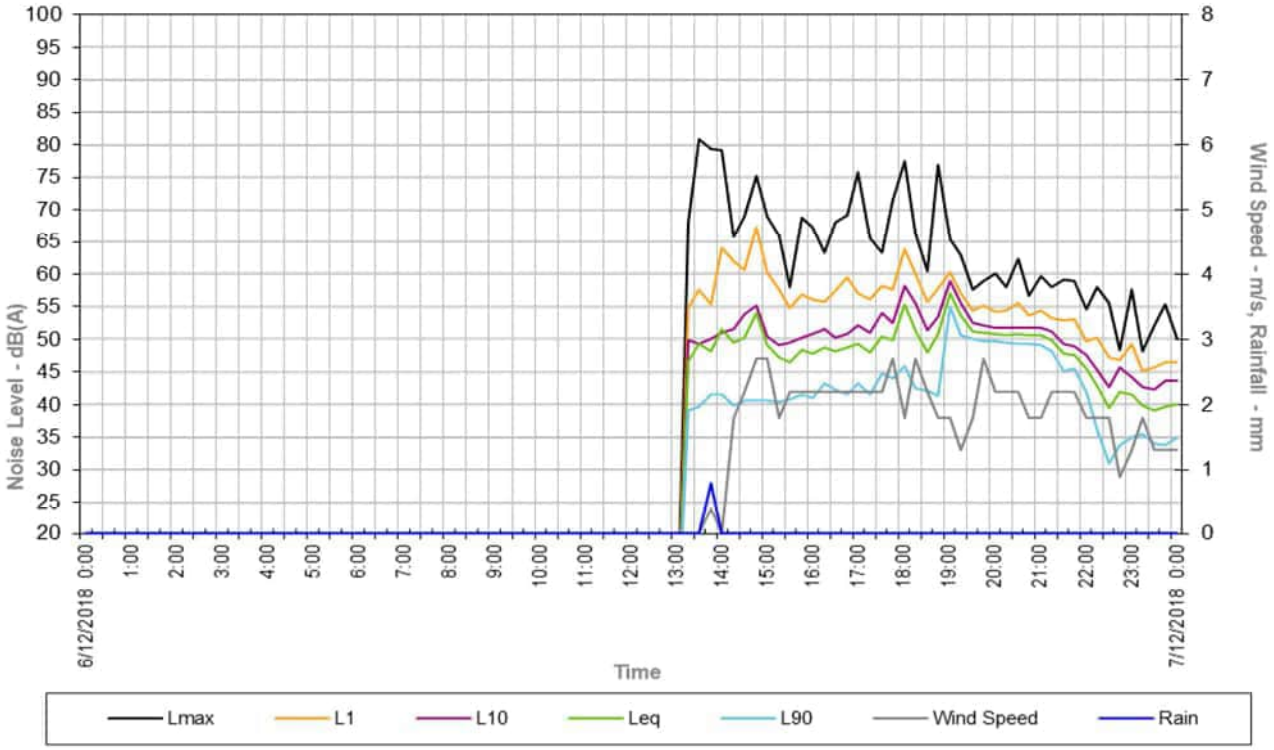
Site Attended Measurements Summary

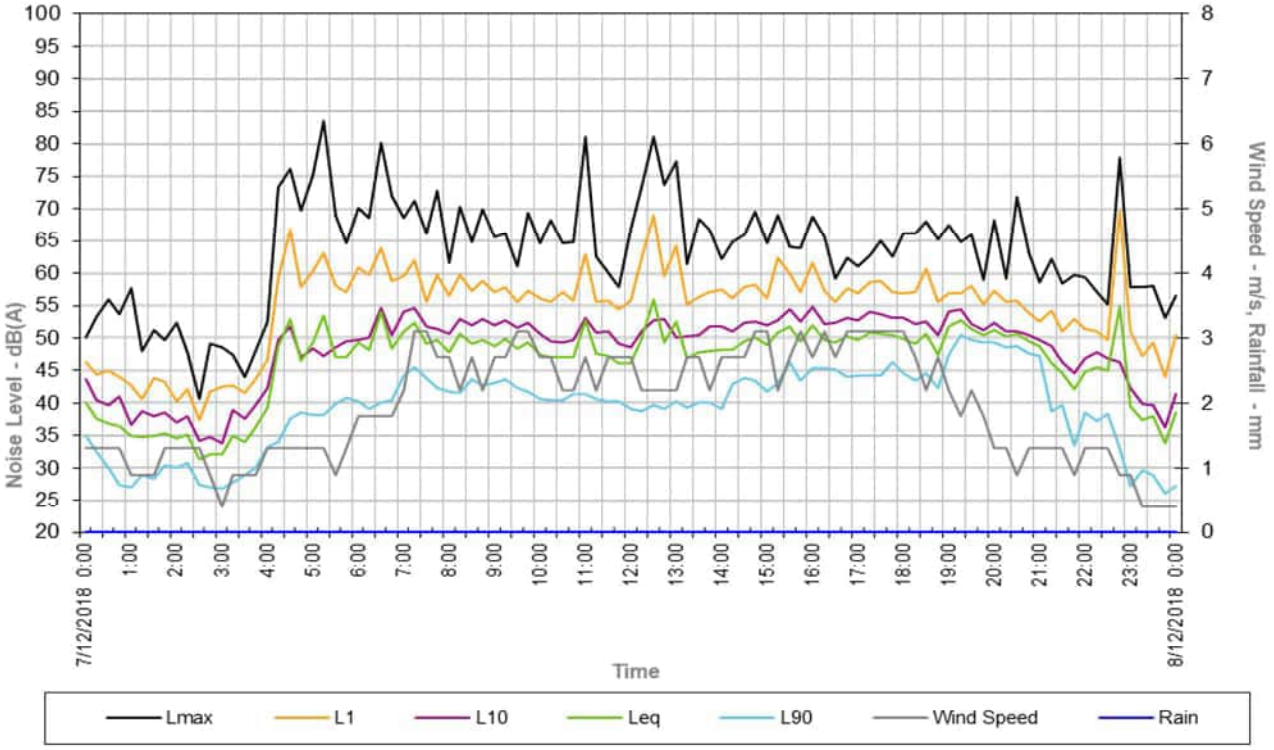
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
6/12/2018	1:00 PM	Attended	75.2	55.2	49.7	38.6	47.5	Pass	1:15 PM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Background is by bird noise and local traffic noise at 40 dB(A). Magpies in backyard at 52-75 dB(A). Wind noise source at 45 dB(A) from backyard tree. Distant Gore hwy noise barely audible. Occasional local traffic on short street at 50 - 55 dB(A).								
13/12/2018	10:30 AM	Attended	80.2	55.2	48.6	38.5	48.3	Pass	10:45 AM
		Logged	70.8	56.9	51.1	41.3	48.2		
		Difference	9.4	-1.7	-2.5	-2.8	0.1		
Comments	Noise environment dominated by moderate wind noise in trees 43-45 dB(A) and birds 40-80 dB(A). Magpies in back yard								

Photos

Site Noise and Weather Graphical Analysis

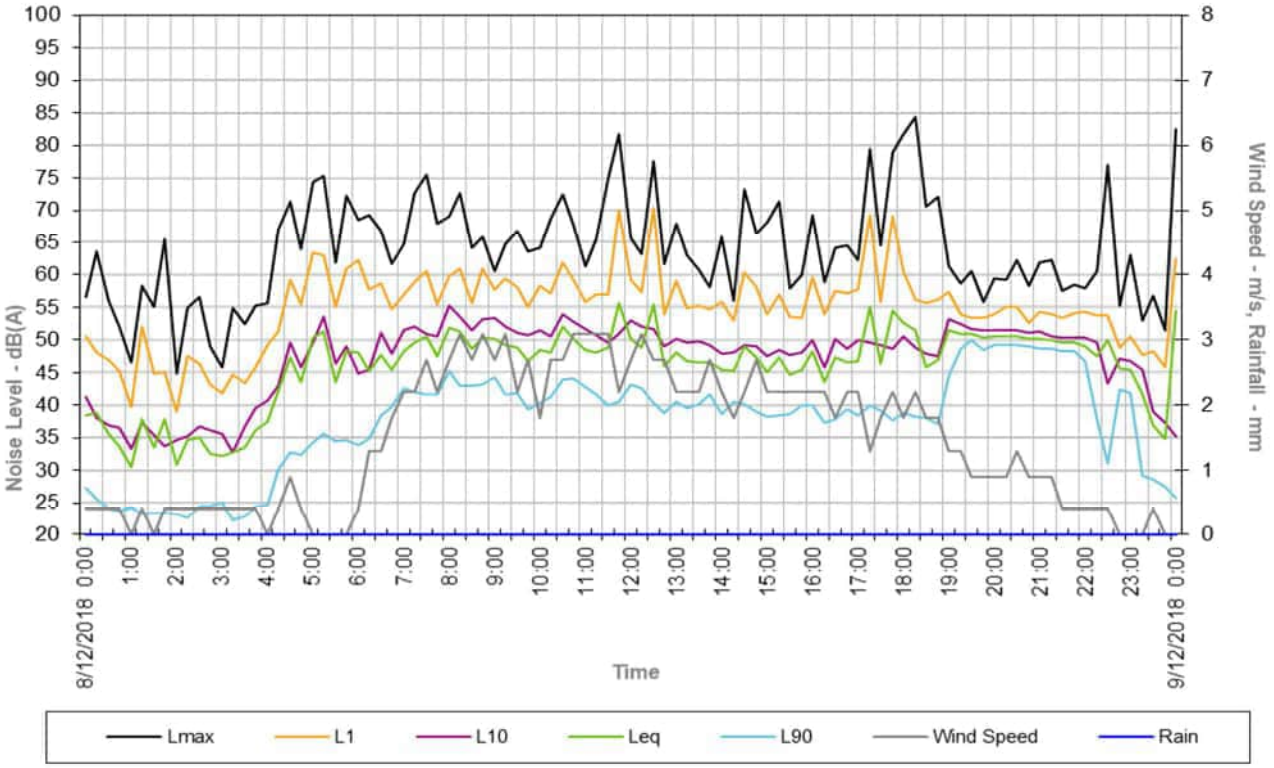
2B Short Street

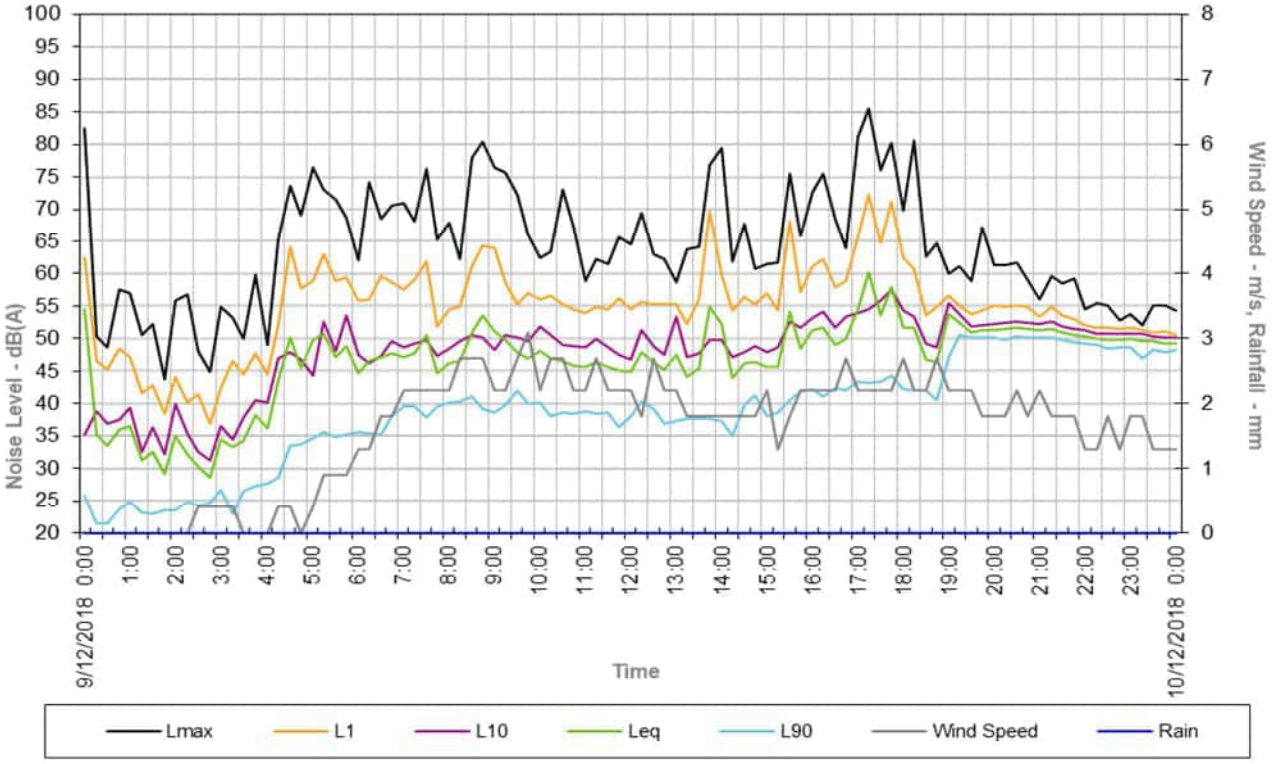




Site Noise and Weather Graphical Analysis

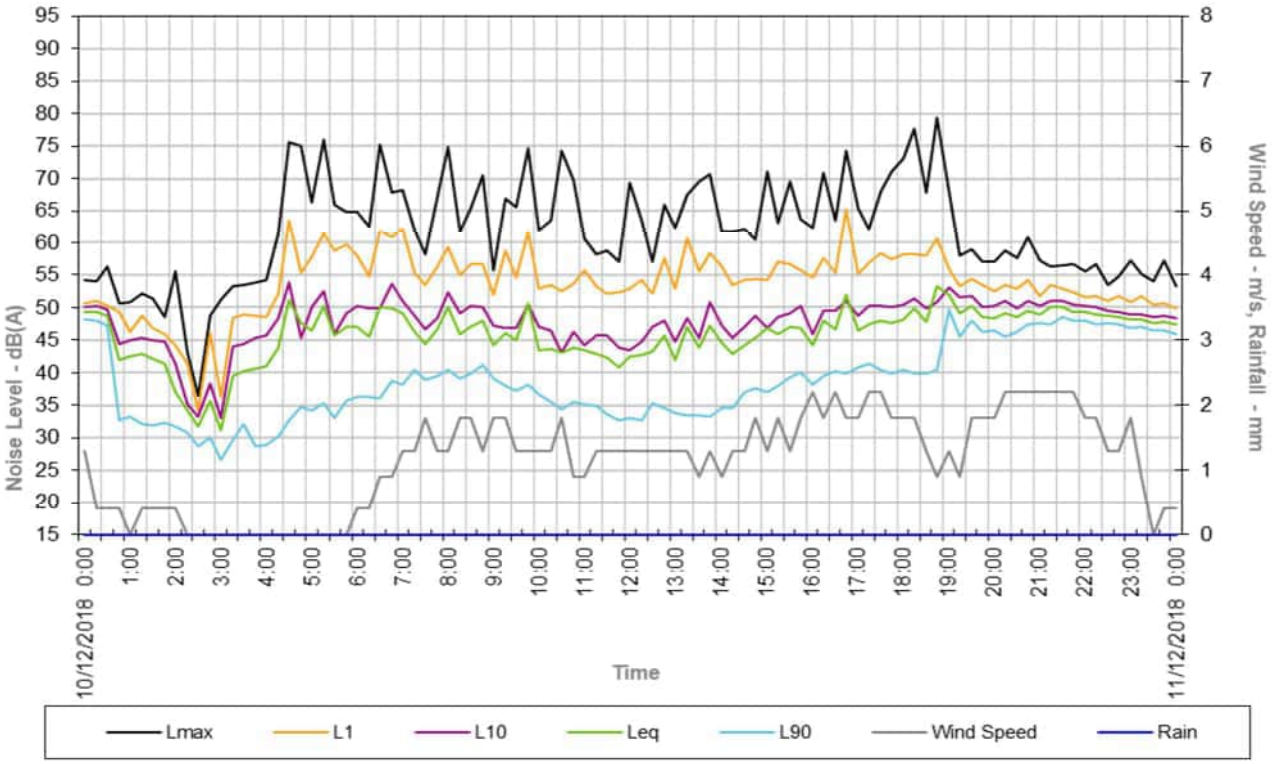
2B Short Street

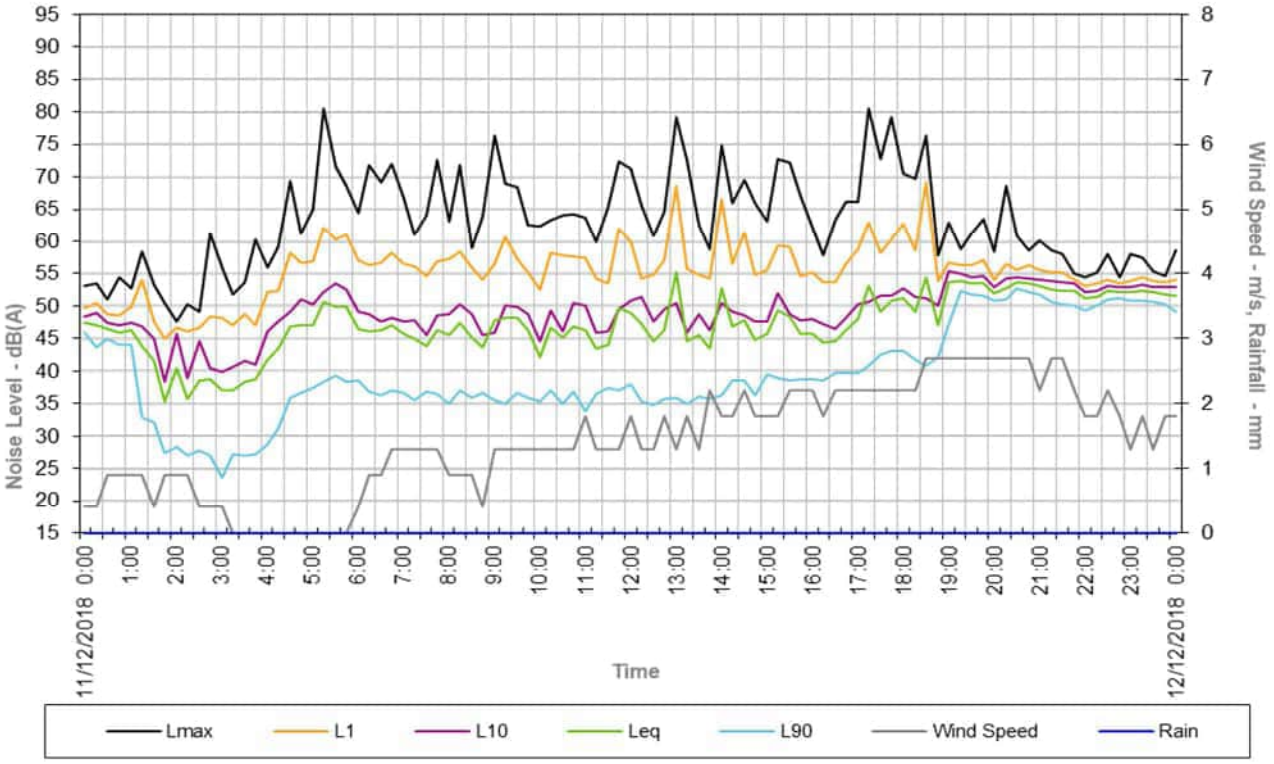




Site Noise and Weather Graphical Analysis

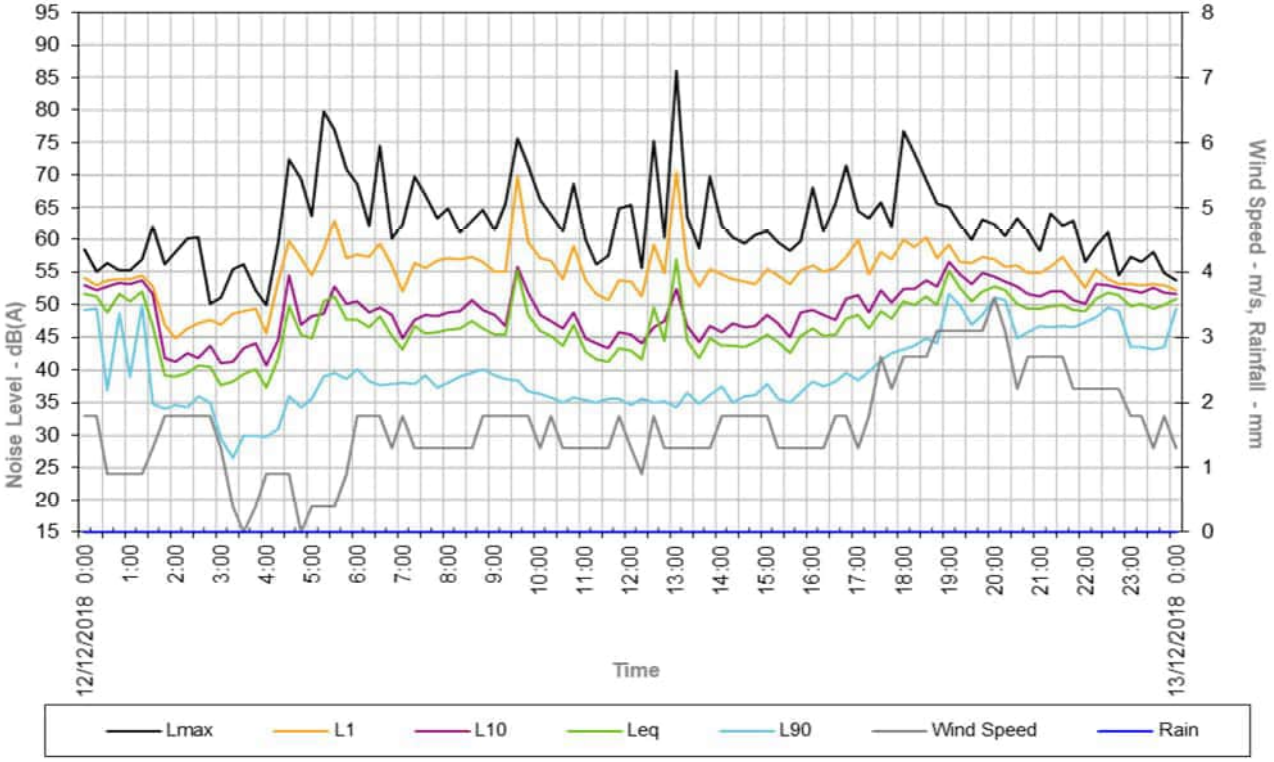
2B Short Street

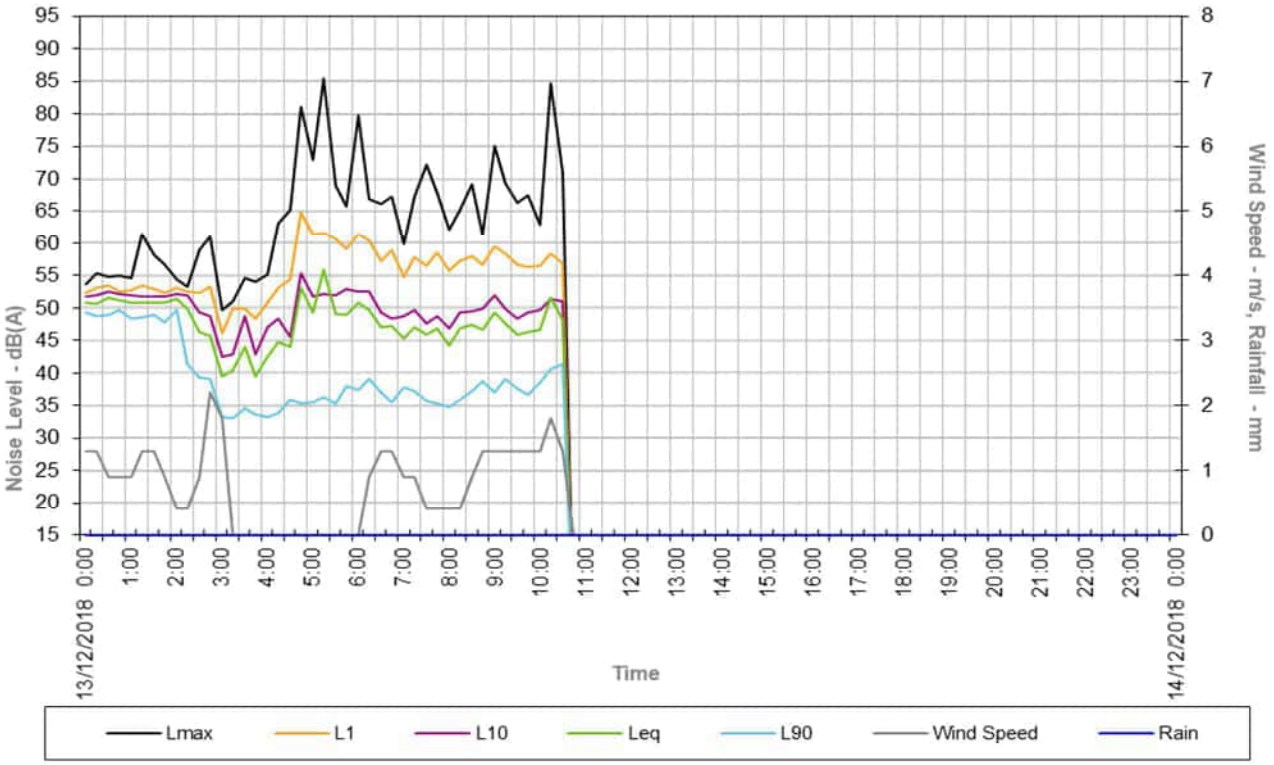




Site Noise and Weather Graphical Analysis

2B Short Street





Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
6/12/2018	13:15	47	68	55	50	39	0.0	0.0	0.0	0	38	27	719
6/12/2018	13:30	49	81	58	49	40	0.0	0.0	0.0	0	41	24	719
6/12/2018	13:45	48	79	55	50	42	0.8	0.4	17.9	338	36	31	719
6/12/2018	14:00	52	79	64	51	42	0.0	0.0	0.0	0	34	30	718
6/12/2018	14:15	50	66	62	52	40	0.0	1.8	5.4	68	28	38	718
6/12/2018	14:30	50	69	61	54	41	0.0	2.2	5.4	68	28	39	718
6/12/2018	14:45	54	75	67	55	41	0.0	2.7	7.2	68	27	39	718
6/12/2018	15:00	49	69	60	51	41	0.0	2.7	5.8	68	26	40	718
6/12/2018	15:15	47	66	58	49	40	0.0	1.8	6.7	68	26	40	718
6/12/2018	15:30	46	58	55	50	41	0.0	2.2	4.9	68	27	39	718
6/12/2018	15:45	48	69	57	50	42	0.0	2.2	5.8	90	27	39	717
6/12/2018	16:00	48	67	56	51	41	0.0	2.2	5.8	68	27	39	718
6/12/2018	16:15	49	63	56	52	43	0.0	2.2	5.8	68	26	40	718
6/12/2018	16:30	48	68	57	50	42	0.0	2.2	5.8	45	26	42	718
6/12/2018	16:45	49	69	60	51	42	0.0	2.2	4.9	68	26	42	718
6/12/2018	17:00	49	76	57	52	43	0.0	2.2	4.9	90	25	43	718
6/12/2018	17:15	48	66	56	51	42	0.0	2.2	5.4	68	25	44	718
6/12/2018	17:30	51	63	58	54	45	0.0	2.2	4.9	68	24	45	718
6/12/2018	17:45	50	72	58	53	44	0.0	2.7	5.8	45	24	48	718
6/12/2018	18:00	55	77	64	58	46	0.0	1.8	5.4	45	23	52	718
6/12/2018	18:15	51	66	60	56	43	0.0	2.7	5.4	45	22	54	718
6/12/2018	18:30	48	61	56	51	42	0.0	2.2	7.2	45	22	56	719
6/12/2018	18:45	51	77	58	53	41	0.0	1.8	5.4	68	22	57	719
6/12/2018	19:00	57	65	60	59	55	0.0	1.8	3.6	68	21	60	719
6/12/2018	19:15	54	63	57	56	51	0.0	1.3	6.3	68	21	62	719
6/12/2018	19:30	51	58	54	53	50	0.0	1.8	4.9	68	20	62	719
6/12/2018	19:45	51	59	55	52	50	0.0	2.7	5.8	68	20	63	719
6/12/2018	20:00	51	60	54	52	50	0.0	2.2	6.3	68	20	63	719
6/12/2018	20:15	51	58	55	52	50	0.0	2.2	4.9	90	19	65	720
6/12/2018	20:30	51	62	56	52	49	0.0	2.2	4.9	68	19	66	720
6/12/2018	20:45	51	57	54	52	49	0.0	1.8	4.9	90	19	67	720
6/12/2018	21:00	51	60	55	52	49	0.0	1.8	5.4	90	18	68	720
6/12/2018	21:15	50	58	53	51	48	0.0	2.2	5.4	90	18	69	720
6/12/2018	21:30	48	59	53	49	45	0.0	2.2	4.9	68	18	69	720
6/12/2018	21:45	48	59	53	49	46	0.0	2.2	5.4	90	18	70	720
6/12/2018	22:00	46	55	50	48	42	0.0	1.8	5.4	90	17	71	720
6/12/2018	22:15	43	58	50	45	36	0.0	1.8	4.9	113	17	71	720
6/12/2018	22:30	40	56	47	43	31	0.0	1.8	4.0	113	17	71	720
6/12/2018	22:45	42	48	47	46	34	0.0	0.9	3.1	113	17	72	720
6/12/2018	23:00	42	58	49	44	35	0.0	1.3	3.6	113	17	70	720
6/12/2018	23:15	40	48	45	43	36	0.0	1.8	4.9	113	17	67	720
6/12/2018	23:30	39	52	46	42	34	0.0	1.3	4.0	113	17	67	720
6/12/2018	23:45	40	55	46	44	34	0.0	1.3	3.6	113	17	67	720
7/12/2018	0:00	40	50	46	44	35	0.0	1.3	3.6	113	16	66	720
7/12/2018	0:15	38	53	45	40	33	0.0	1.3	4.9	113	16	66	720
7/12/2018	0:30	37	56	45	40	30	0.0	1.3	4.0	113	16	66	720
7/12/2018	0:45	36	54	44	41	27	0.0	1.3	4.0	113	16	67	720
7/12/2018	1:00	35	58	43	37	27	0.0	0.9	3.1	113	16	68	719
7/12/2018	1:15	35	48	41	39	29	0.0	0.9	2.2	113	15	69	719
7/12/2018	1:30	35	51	44	38	28	0.0	0.9	3.1	113	15	69	719
7/12/2018	1:45	35	50	43	39	30	0.0	1.3	3.1	113	15	71	719
7/12/2018	2:00	35	52	40	37	30	0.0	1.3	3.6	113	15	72	719
7/12/2018	2:15	35	48	42	38	31	0.0	1.3	3.6	113	14	72	719
7/12/2018	2:30	31	41	37	34	28	0.0	1.3	4.0	113	14	74	719
7/12/2018	2:45	32	49	42	35	27	0.0	0.9	3.6	113	14	74	719
7/12/2018	3:00	32	49	43	34	27	0.0	0.4	2.2	113	14	74	719
7/12/2018	3:15	35	47	43	39	28	0.0	0.9	3.1	113	14	74	719
7/12/2018	3:30	34	44	42	38	29	0.0	0.9	3.1	113	14	74	719
7/12/2018	3:45	36	48	44	40	30	0.0	0.9	2.7	113	14	74	719
7/12/2018	4:00	39	53	47	42	33	0.0	1.3	3.1	113	13	75	719
7/12/2018	4:15	49	73	59	50	34	0.0	1.3	4.0	113	13	75	719
7/12/2018	4:30	53	76	67	52	38	0.0	1.3	3.1	113	13	75	719
7/12/2018	4:45	47	70	58	47	39	0.0	1.3	3.1	113	14	75	719
7/12/2018	5:00	49	75	60	48	38	0.0	1.3	4.5	113	14	74	719
7/12/2018	5:15	53	84	63	47	38	0.0	1.3	3.6	113	14	74	719
7/12/2018	5:30	47	69	58	49	40	0.0	0.9	3.1	113	15	74	719
7/12/2018	5:45	47	65	57	50	41	0.0	1.3	4.0	113	16	72	719
7/12/2018	6:00	49	70	61	50	40	0.0	1.8	4.5	113	16	71	720
7/12/2018	6:15	48	69	60	50	39	0.0	1.8	4.5	113	17	70	720
7/12/2018	6:30	54	80	64	55	40	0.0	1.8	4.0	113	17	69	720

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018	6:45	48	72	59	51	41	0.0	1.8	5.4	113	18	67	720
7/12/2018	7:00	51	69	60	54	44	0.0	2.2	7.2	113	19	63	720
7/12/2018	7:15	52	71	62	55	46	0.0	3.1	8.5	90	20	60	720
7/12/2018	7:30	49	66	56	52	44	0.0	3.1	5.8	113	20	57	720
7/12/2018	7:45	50	73	60	51	42	0.0	2.7	6.7	90	21	55	720
7/12/2018	8:00	48	62	57	51	42	0.0	2.7	5.8	113	21	53	720
7/12/2018	8:15	51	70	60	53	42	0.0	2.2	6.3	113	22	51	720
7/12/2018	8:30	49	65	57	52	44	0.0	2.7	7.2	90	22	51	720
7/12/2018	8:45	50	70	59	53	43	0.0	2.2	5.8	90	23	51	720
7/12/2018	9:00	49	66	57	52	43	0.0	2.7	7.2	90	23	50	720
7/12/2018	9:15	50	66	58	53	44	0.0	2.7	6.7	90	23	50	720
7/12/2018	9:30	48	61	56	52	42	0.0	3.1	7.2	45	22	51	720
7/12/2018	9:45	49	69	57	52	42	0.0	3.1	6.3	90	23	50	720
7/12/2018	10:00	48	65	56	51	41	0.0	2.7	5.8	45	23	51	720
7/12/2018	10:15	47	68	56	50	41	0.0	2.7	6.7	90	23	52	720
7/12/2018	10:30	47	65	57	49	40	0.0	2.2	4.9	68	23	51	720
7/12/2018	10:45	47	65	56	50	41	0.0	2.2	5.8	68	24	51	720
7/12/2018	11:00	53	81	63	53	41	0.0	2.7	5.4	68	24	50	720
7/12/2018	11:15	48	63	56	51	41	0.0	2.2	5.8	90	24	48	720
7/12/2018	11:30	47	60	56	51	40	0.0	2.7	5.8	90	24	47	720
7/12/2018	11:45	46	58	55	49	40	0.0	2.7	7.2	90	25	46	720
7/12/2018	12:00	46	67	56	49	39	0.0	2.7	5.4	90	24	47	720
7/12/2018	12:15	50	73	62	51	39	0.0	2.2	5.4	113	25	46	720
7/12/2018	12:30	56	81	69	53	40	0.0	2.2	5.4	90	25	45	720
7/12/2018	12:45	49	74	60	53	39	0.0	2.2	5.4	113	26	44	720
7/12/2018	13:00	53	77	64	50	40	0.0	2.2	6.3	68	25	45	720
7/12/2018	13:15	47	62	55	50	39	0.0	2.7	5.4	90	25	45	719
7/12/2018	13:30	48	69	56	50	40	0.0	2.7	6.3	113	25	44	719
7/12/2018	13:45	48	67	57	52	40	0.0	2.2	5.8	113	26	42	719
7/12/2018	14:00	48	62	57	52	39	0.0	2.7	6.7	90	25	43	719
7/12/2018	14:15	48	65	56	51	43	0.0	2.7	6.3	68	25	46	719
7/12/2018	14:30	50	66	58	52	44	0.0	2.7	5.4	68	24	48	719
7/12/2018	14:45	50	70	58	53	43	0.0	3.1	7.2	45	25	49	719
7/12/2018	15:00	49	65	56	52	42	0.0	3.1	6.3	68	25	47	719
7/12/2018	15:15	51	69	62	53	43	0.0	2.2	6.7	45	25	47	719
7/12/2018	15:30	52	64	60	54	46	0.0	2.7	6.3	68	25	49	718
7/12/2018	15:45	50	64	57	53	44	0.0	3.1	8.0	45	25	48	719
7/12/2018	16:00	52	69	62	55	45	0.0	2.7	8.0	45	24	48	719
7/12/2018	16:15	50	66	57	52	45	0.0	3.1	6.7	45	24	48	718
7/12/2018	16:30	49	59	56	52	45	0.0	2.7	6.3	68	24	50	718
7/12/2018	16:45	50	62	58	53	44	0.0	3.1	6.7	68	24	48	718
7/12/2018	17:00	50	61	57	53	44	0.0	3.1	6.3	45	23	49	718
7/12/2018	17:15	51	63	59	54	44	0.0	3.1	7.2	45	23	52	719
7/12/2018	17:30	51	65	59	54	44	0.0	3.1	7.2	45	22	55	719
7/12/2018	17:45	51	63	57	53	46	0.0	3.1	6.3	90	22	57	719
7/12/2018	18:00	50	66	57	53	45	0.0	3.1	7.2	45	21	59	719
7/12/2018	18:15	49	66	57	52	44	0.0	2.7	6.3	90	21	60	719
7/12/2018	18:30	51	68	61	53	45	0.0	2.2	4.9	90	20	62	719
7/12/2018	18:45	48	65	56	50	42	0.0	2.7	5.8	68	20	64	719
7/12/2018	19:00	52	68	57	54	47	0.0	2.2	6.3	90	20	66	720
7/12/2018	19:15	53	65	57	54	50	0.0	1.8	5.4	90	19	66	720
7/12/2018	19:30	52	66	58	52	50	0.0	2.2	5.4	68	19	68	720
7/12/2018	19:45	51	59	55	51	49	0.0	1.8	4.0	90	18	71	720
7/12/2018	20:00	51	68	57	52	49	0.0	1.3	6.3	113	18	73	720
7/12/2018	20:15	50	59	56	51	49	0.0	1.3	4.0	90	18	74	720
7/12/2018	20:30	51	72	56	51	49	0.0	0.9	3.1	90	18	75	720
7/12/2018	20:45	50	63	54	50	48	0.0	1.3	4.0	90	17	76	720
7/12/2018	21:00	49	59	53	50	47	0.0	1.3	3.1	90	17	76	720
7/12/2018	21:15	46	62	54	49	39	0.0	1.3	3.6	90	17	75	720
7/12/2018	21:30	45	58	51	46	40	0.0	1.3	3.6	113	17	75	720
7/12/2018	21:45	42	60	53	45	33	0.0	0.9	3.1	90	17	75	720
7/12/2018	22:00	45	59	51	47	39	0.0	1.3	3.6	90	17	76	721
7/12/2018	22:15	46	57	51	48	37	0.0	1.3	4.0	90	17	76	720
7/12/2018	22:30	45	55	50	47	38	0.0	1.3	3.6	113	17	77	720
7/12/2018	22:45	55	78	70	46	33	0.0	0.9	3.1	90	16	78	720
7/12/2018	23:00	40	58	51	42	27	0.0	0.9	2.2	113	16	79	720
7/12/2018	23:15	38	58	47	40	30	0.0	0.4	3.1	113	16	79	720
7/12/2018	23:30	38	58	49	40	29	0.0	0.4	2.7	113	16	78	720
7/12/2018	23:45	34	53	44	36	26	0.0	0.4	3.1	113	16	78	720
8/12/2018	0:00	39	57	51	41	27	0.0	0.4	3.1	113	16	77	720

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	0:15	39	64	48	38	26	0.0	0.4	2.2	113	16	78	720
8/12/2018	0:30	36	56	47	37	24	0.0	0.4	1.8	113	16	78	720
8/12/2018	0:45	34	52	45	37	24	0.0	0.4	1.8	113	16	78	719
8/12/2018	1:00	31	47	40	33	24	0.0	0.0	1.3	113	16	78	719
8/12/2018	1:15	38	58	52	37	23	0.0	0.4	1.3	113	16	76	719
8/12/2018	1:30	34	55	45	35	23	0.0	0.0	1.3	113	16	77	719
8/12/2018	1:45	38	65	45	34	24	0.0	0.4	1.8	113	16	76	719
8/12/2018	2:00	31	45	39	35	23	0.0	0.4	2.2	113	16	76	719
8/12/2018	2:15	35	55	48	35	23	0.0	0.4	1.3	113	16	76	719
8/12/2018	2:30	35	57	46	37	25	0.0	0.4	1.8	113	16	76	719
8/12/2018	2:45	33	49	43	36	25	0.0	0.4	1.8	113	16	77	719
8/12/2018	3:00	32	46	42	36	25	0.0	0.4	3.1	113	16	77	719
8/12/2018	3:15	33	55	45	33	22	0.0	0.4	2.2	113	16	78	719
8/12/2018	3:30	34	52	43	37	23	0.0	0.4	2.7	113	16	79	719
8/12/2018	3:45	36	55	46	40	24	0.0	0.4	1.3	113	15	79	719
8/12/2018	4:00	38	56	49	41	25	0.0	0.0	1.3	113	15	79	719
8/12/2018	4:15	42	67	51	43	30	0.0	0.4	1.8	113	15	79	719
8/12/2018	4:30	47	71	59	50	33	0.0	0.9	2.7	113	15	79	719
8/12/2018	4:45	44	64	55	46	32	0.0	0.4	1.8	113	15	79	719
8/12/2018	5:00	50	74	63	50	34	0.0	0.0	0.9	113	15	79	719
8/12/2018	5:15	51	75	63	54	36	0.0	0.0	0.9	113	15	80	719
8/12/2018	5:30	44	62	55	46	35	0.0	0.0	0.9	113	15	79	719
8/12/2018	5:45	48	72	61	49	35	0.0	0.0	1.3	113	16	77	719
8/12/2018	6:00	48	69	62	45	34	0.0	0.4	2.2	113	17	75	719
8/12/2018	6:15	45	69	58	46	35	0.0	1.3	3.1	113	18	73	720
8/12/2018	6:30	48	67	59	51	38	0.0	1.3	4.0	113	18	72	720
8/12/2018	6:45	45	62	55	48	40	0.0	1.8	4.5	113	18	72	720
8/12/2018	7:00	48	65	57	52	43	0.0	2.2	6.7	90	19	71	720
8/12/2018	7:15	50	73	59	52	42	0.0	2.2	6.7	90	19	70	720
8/12/2018	7:30	51	76	61	51	42	0.0	2.7	5.4	90	19	69	720
8/12/2018	7:45	48	68	55	51	42	0.0	2.2	6.7	90	20	67	720
8/12/2018	8:00	52	69	60	55	45	0.0	2.7	6.3	90	20	65	720
8/12/2018	8:15	51	73	61	54	43	0.0	3.1	8.0	90	21	63	720
8/12/2018	8:30	49	64	56	52	43	0.0	2.7	6.3	90	21	61	720
8/12/2018	8:45	50	66	61	53	43	0.0	3.1	6.7	68	22	60	720
8/12/2018	9:00	50	61	58	53	44	0.0	2.7	7.2	68	22	58	720
8/12/2018	9:15	49	65	60	52	42	0.0	3.1	6.3	68	22	60	720
8/12/2018	9:30	49	67	58	51	42	0.0	2.2	6.3	90	23	57	720
8/12/2018	9:45	47	64	55	51	39	0.0	2.7	6.3	68	23	56	720
8/12/2018	10:00	49	64	58	52	40	0.0	1.8	5.8	68	23	56	720
8/12/2018	10:15	48	69	57	51	41	0.0	2.7	8.9	90	23	57	720
8/12/2018	10:30	52	72	62	54	44	0.0	2.7	5.8	90	23	56	720
8/12/2018	10:45	50	68	59	53	44	0.0	3.1	7.2	45	24	56	719
8/12/2018	11:00	49	61	56	52	43	0.0	3.1	6.7	68	24	56	720
8/12/2018	11:15	48	66	57	51	42	0.0	3.1	6.3	68	24	56	720
8/12/2018	11:30	49	75	57	50	40	0.0	3.1	7.2	68	23	59	720
8/12/2018	11:45	56	82	70	51	41	0.0	2.2	5.8	68	23	58	719
8/12/2018	12:00	50	66	59	53	43	0.0	2.7	5.4	68	23	59	719
8/12/2018	12:15	49	63	57	52	43	0.0	3.1	5.8	68	24	58	719
8/12/2018	12:30	56	78	70	52	40	0.0	2.7	6.7	90	23	60	719
8/12/2018	12:45	46	62	54	49	39	0.0	2.7	6.3	68	24	58	719
8/12/2018	13:00	48	68	59	50	41	0.0	2.2	5.8	68	23	58	719
8/12/2018	13:15	47	63	55	50	40	0.0	2.2	5.8	68	24	57	719
8/12/2018	13:30	47	61	55	50	40	0.0	2.2	6.3	68	23	58	719
8/12/2018	13:45	47	58	55	49	42	0.0	2.7	6.3	68	23	60	719
8/12/2018	14:00	45	66	56	48	39	0.0	2.2	4.9	90	22	62	719
8/12/2018	14:15	45	56	53	48	41	0.0	1.8	6.7	90	23	61	719
8/12/2018	14:30	49	73	60	49	40	0.0	2.2	4.9	90	23	60	719
8/12/2018	14:45	47	66	58	49	39	0.0	2.7	5.4	68	23	59	719
8/12/2018	15:00	45	68	54	48	38	0.0	2.2	5.8	68	23	58	719
8/12/2018	15:15	47	71	57	48	39	0.0	2.2	5.8	68	23	58	718
8/12/2018	15:30	45	58	54	48	39	0.0	2.2	4.9	90	24	54	718
8/12/2018	15:45	45	60	53	48	40	0.0	2.2	4.9	68	23	54	718
8/12/2018	16:00	48	69	60	50	40	0.0	2.2	5.4	68	23	57	719
8/12/2018	16:15	44	59	54	46	37	0.0	2.2	4.9	68	23	56	719
8/12/2018	16:30	47	64	58	50	38	0.0	1.8	4.5	90	24	55	718
8/12/2018	16:45	47	65	57	49	39	0.0	2.2	4.9	90	24	54	718
8/12/2018	17:00	47	62	58	50	38	0.0	2.2	4.9	90	23	55	718
8/12/2018	17:15	55	80	69	50	40	0.0	1.3	4.0	113	24	55	718
8/12/2018	17:30	46	65	56	49	39	0.0	1.8	4.9	113	23	56	719

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	17:45	55	79	69	49	38	0.0	2.2	4.9	90	22	59	719
8/12/2018	18:00	53	82	61	51	39	0.0	1.8	4.0	113	22	58	719
8/12/2018	18:15	52	84	56	49	38	0.0	2.2	4.9	90	22	60	719
8/12/2018	18:30	46	71	56	48	38	0.0	1.8	5.4	113	21	62	719
8/12/2018	18:45	47	72	56	48	37	0.0	1.8	4.0	90	21	62	719
8/12/2018	19:00	52	61	57	53	44	0.0	1.3	3.6	90	20	63	720
8/12/2018	19:15	51	59	54	52	49	0.0	1.3	4.0	113	20	65	720
8/12/2018	19:30	51	61	53	52	50	0.0	0.9	2.7	113	20	66	720
8/12/2018	19:45	50	56	53	51	49	0.0	0.9	3.6	113	19	68	720
8/12/2018	20:00	51	59	54	51	49	0.0	0.9	3.1	113	19	69	720
8/12/2018	20:15	51	59	55	52	49	0.0	0.9	2.7	113	19	70	720
8/12/2018	20:30	51	62	55	51	49	0.0	1.3	2.7	90	18	71	720
8/12/2018	20:45	50	58	53	51	49	0.0	0.9	3.1	90	18	73	720
8/12/2018	21:00	50	62	54	51	49	0.0	0.9	3.1	113	18	74	720
8/12/2018	21:15	50	62	54	51	49	0.0	0.9	2.7	90	18	74	720
8/12/2018	21:30	50	58	53	50	48	0.0	0.4	2.7	113	18	75	720
8/12/2018	21:45	50	58	54	50	48	0.0	0.4	2.2	113	17	76	720
8/12/2018	22:00	49	58	54	50	47	0.0	0.4	1.3	90	17	77	720
8/12/2018	22:15	48	61	54	50	38	0.0	0.4	1.3	113	17	77	720
8/12/2018	22:30	50	77	54	43	31	0.0	0.4	1.8	113	17	78	720
8/12/2018	22:45	46	55	49	47	42	0.0	0.0	1.3	113	16	80	720
8/12/2018	23:00	46	63	51	47	42	0.0	0.0	0.4	113	16	81	720
8/12/2018	23:15	42	53	48	45	29	0.0	0.0	0.9	90	16	81	720
8/12/2018	23:30	37	57	48	39	29	0.0	0.4	1.8	113	16	81	720
8/12/2018	23:45	35	52	46	37	28	0.0	0.0	1.8	90	16	82	719
9/12/2018	0:00	55	83	63	35	26	0.0	0.0	0.9	113	16	83	719
9/12/2018	0:15	35	50	47	39	22	0.0	0.0	1.3	113	15	84	719
9/12/2018	0:30	34	49	45	37	22	0.0	0.0	1.3	113	15	84	719
9/12/2018	0:45	36	58	49	38	24	0.0	0.0	1.3	113	15	85	719
9/12/2018	1:00	37	57	47	39	25	0.0	0.0	0.9	113	15	84	719
9/12/2018	1:15	31	51	42	33	23	0.0	0.0	0.4	113	14	87	719
9/12/2018	1:30	33	52	43	36	23	0.0	0.0	0.9	113	14	87	719
9/12/2018	1:45	29	44	39	32	24	0.0	0.0	1.3	90	14	88	719
9/12/2018	2:00	35	56	44	40	24	0.0	0.0	1.3	113	15	86	718
9/12/2018	2:15	32	57	40	35	25	0.0	0.0	1.3	113	15	86	718
9/12/2018	2:30	30	48	41	33	24	0.0	0.4	1.8	113	15	85	718
9/12/2018	2:45	29	45	37	31	25	0.0	0.4	1.8	113	15	85	718
9/12/2018	3:00	34	55	43	37	27	0.0	0.4	2.2	113	15	85	718
9/12/2018	3:15	33	53	47	34	23	0.0	0.4	1.8	113	14	85	718
9/12/2018	3:30	34	50	44	38	27	0.0	0.0	0.9	113	14	86	718
9/12/2018	3:45	38	60	48	41	27	0.0	0.0	0.9	113	14	86	718
9/12/2018	4:00	36	49	44	40	28	0.0	0.0	0.4	113	14	86	718
9/12/2018	4:15	44	65	52	47	29	0.0	0.4	1.3	113	15	86	718
9/12/2018	4:30	50	74	64	48	34	0.0	0.4	1.8	113	15	86	718
9/12/2018	4:45	46	69	58	47	34	0.0	0.0	1.3	113	15	86	718
9/12/2018	5:00	50	77	59	44	35	0.0	0.4	2.2	113	15	87	718
9/12/2018	5:15	51	73	63	53	36	0.0	0.9	3.1	113	16	85	718
9/12/2018	5:30	47	72	59	48	35	0.0	0.9	3.6	113	16	84	718
9/12/2018	5:45	49	69	60	54	35	0.0	0.9	2.7	113	17	80	718
9/12/2018	6:00	45	62	56	48	36	0.0	1.3	4.0	113	18	77	718
9/12/2018	6:15	47	74	56	46	36	0.0	1.3	4.0	113	19	75	718
9/12/2018	6:30	47	69	60	47	35	0.0	1.8	4.9	90	19	75	718
9/12/2018	6:45	48	71	59	50	38	0.0	1.8	4.5	113	19	75	719
9/12/2018	7:00	47	71	58	49	40	0.0	2.2	5.8	113	20	72	719
9/12/2018	7:15	48	68	59	49	40	0.0	2.2	5.4	90	21	71	719
9/12/2018	7:30	51	76	62	50	38	0.0	2.2	5.4	113	21	70	719
9/12/2018	7:45	45	65	52	47	40	0.0	2.2	5.4	90	22	67	719
9/12/2018	8:00	46	68	55	49	40	0.0	2.2	5.8	90	22	66	719
9/12/2018	8:15	47	62	55	50	40	0.0	2.7	5.8	90	23	64	719
9/12/2018	8:30	51	78	61	51	41	0.0	2.7	7.2	90	23	62	719
9/12/2018	8:45	54	80	64	50	39	0.0	2.7	5.8	113	23	62	719
9/12/2018	9:00	51	76	64	48	39	0.0	2.2	5.8	90	24	58	719
9/12/2018	9:15	50	76	59	51	40	0.0	2.2	5.4	90	24	58	719
9/12/2018	9:30	48	72	55	50	42	0.0	2.7	6.3	90	25	55	719
9/12/2018	9:45	47	66	57	50	40	0.0	3.1	6.7	45	25	55	719
9/12/2018	10:00	48	62	56	52	40	0.0	2.2	5.4	90	25	54	719
9/12/2018	10:15	47	63	57	51	38	0.0	2.7	6.3	90	25	54	718
9/12/2018	10:30	47	73	55	49	39	0.0	2.7	5.4	68	26	53	718
9/12/2018	10:45	46	67	55	49	38	0.0	2.2	6.3	90	26	51	718
9/12/2018	11:00	46	59	54	49	39	0.0	2.2	5.4	90	26	51	718

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	11:15	46	62	55	50	38	0.0	2.7	5.8	68	27	51	718
9/12/2018	11:30	46	62	55	49	39	0.0	2.2	5.8	68	26	51	718
9/12/2018	11:45	45	66	56	48	36	0.0	2.2	6.3	68	27	51	718
9/12/2018	12:00	45	65	55	47	38	0.0	2.2	5.8	90	26	52	718
9/12/2018	12:15	48	69	56	51	40	0.0	1.8	4.9	68	27	50	718
9/12/2018	12:30	46	63	55	49	39	0.0	2.7	6.7	45	27	51	718
9/12/2018	12:45	45	62	55	48	37	0.0	2.2	5.4	68	28	50	718
9/12/2018	13:00	48	59	55	53	37	0.0	2.2	4.9	45	27	48	717
9/12/2018	13:15	44	64	52	47	38	0.0	1.8	4.9	68	28	47	717
9/12/2018	13:30	46	64	56	48	38	0.0	1.8	5.8	68	28	45	717
9/12/2018	13:45	55	77	70	50	38	0.0	1.8	5.4	90	28	46	717
9/12/2018	14:00	52	80	60	50	37	0.0	1.8	5.8	90	27	47	717
9/12/2018	14:15	44	62	54	47	35	0.0	1.8	4.9	90	28	46	717
9/12/2018	14:30	46	68	56	48	40	0.0	1.8	4.9	90	28	43	717
9/12/2018	14:45	46	61	55	49	41	0.0	1.8	4.0	90	29	43	717
9/12/2018	15:00	46	62	57	48	38	0.0	2.2	7.2	68	28	44	717
9/12/2018	15:15	46	62	54	49	39	0.0	1.3	4.9	90	29	41	717
9/12/2018	15:30	54	76	68	53	41	0.0	1.8	4.9	113	29	42	716
9/12/2018	15:45	49	66	57	52	42	0.0	2.2	4.9	68	28	42	716
9/12/2018	16:00	51	73	61	53	42	0.0	2.2	6.3	68	28	42	716
9/12/2018	16:15	52	75	62	54	41	0.0	2.2	5.8	68	28	44	716
9/12/2018	16:30	49	68	58	52	43	0.0	2.2	5.4	90	28	43	716
9/12/2018	16:45	50	64	59	53	42	0.0	2.7	5.8	68	27	45	716
9/12/2018	17:00	55	81	66	54	43	0.0	2.2	5.4	90	27	45	716
9/12/2018	17:15	60	86	72	55	43	0.0	2.2	5.8	68	26	47	716
9/12/2018	17:30	54	76	65	56	43	0.0	2.2	5.4	68	26	48	716
9/12/2018	17:45	58	80	71	58	44	0.0	2.2	5.4	68	26	51	716
9/12/2018	18:00	52	70	63	54	42	0.0	2.7	5.4	45	25	54	716
9/12/2018	18:15	52	81	61	53	42	0.0	2.2	5.8	68	24	56	717
9/12/2018	18:30	47	63	54	49	42	0.0	2.2	5.4	68	23	59	717
9/12/2018	18:45	46	65	55	49	41	0.0	2.7	6.7	68	23	62	717
9/12/2018	19:00	54	60	57	56	47	0.0	2.2	4.9	68	22	64	717
9/12/2018	19:15	53	61	55	54	51	0.0	2.2	6.3	68	22	64	717
9/12/2018	19:30	51	59	54	52	50	0.0	2.2	4.5	68	22	65	717
9/12/2018	19:45	51	67	54	52	50	0.0	1.8	4.9	68	21	66	717
9/12/2018	20:00	51	61	55	52	50	0.0	1.8	4.5	68	21	68	717
9/12/2018	20:15	51	61	55	53	50	0.0	1.8	5.8	68	21	70	717
9/12/2018	20:30	52	62	55	53	50	0.0	2.2	5.4	68	21	70	717
9/12/2018	20:45	51	59	55	52	50	0.0	1.8	5.4	68	20	71	717
9/12/2018	21:00	51	56	53	52	50	0.0	2.2	4.9	68	20	72	717
9/12/2018	21:15	52	60	55	53	50	0.0	1.8	4.5	68	20	73	718
9/12/2018	21:30	51	59	54	52	50	0.0	1.8	4.9	68	20	75	718
9/12/2018	21:45	51	59	53	52	49	0.0	1.8	4.9	68	19	75	718
9/12/2018	22:00	50	55	52	51	49	0.0	1.3	4.0	90	19	76	718
9/12/2018	22:15	50	55	52	51	49	0.0	1.3	3.6	90	19	77	718
9/12/2018	22:30	50	55	52	51	48	0.0	1.8	4.0	90	19	78	718
9/12/2018	22:45	50	53	52	51	49	0.0	1.3	4.0	90	18	80	718
9/12/2018	23:00	50	54	52	51	49	0.0	1.8	4.9	68	18	80	718
9/12/2018	23:15	50	52	51	51	47	0.0	1.8	4.9	68	18	81	718
9/12/2018	23:30	50	55	51	50	48	0.0	1.3	2.7	90	18	83	718
9/12/2018	23:45	49	55	51	50	48	0.0	1.3	4.0	90	18	84	718
10/12/2018	0:00	49	54	51	50	48	0.0	1.3	3.1	90	17	85	718
10/12/2018	0:15	49	54	51	50	48	0.0	0.4	2.2	90	17	86	718
10/12/2018	0:30	49	56	50	50	47	0.0	0.4	2.7	90	17	86	717
10/12/2018	0:45	42	51	49	44	33	0.0	0.4	2.2	113	17	86	717
10/12/2018	1:00	43	51	46	45	33	0.0	0.0	1.3	90	17	86	717
10/12/2018	1:15	43	52	49	45	32	0.0	0.4	2.7	90	17	87	717
10/12/2018	1:30	42	51	47	45	32	0.0	0.4	2.2	90	17	88	717
10/12/2018	1:45	41	49	46	45	32	0.0	0.4	1.8	90	17	88	717
10/12/2018	2:00	37	56	44	41	32	0.0	0.4	2.2	90	17	89	717
10/12/2018	2:15	34	43	41	35	31	0.0	0.0	1.8	90	17	89	717
10/12/2018	2:30	32	37	34	33	29	0.0	0.0	1.3	113	17	90	716
10/12/2018	2:45	36	49	46	38	30	0.0	0.0	1.8	90	16	89	717
10/12/2018	3:00	31	51	36	33	27	0.0	0.0	1.3	113	16	90	716
10/12/2018	3:15	39	53	48	44	30	0.0	0.0	1.3	113	16	91	716
10/12/2018	3:30	40	53	49	44	32	0.0	0.0	0.9	113	17	90	716
10/12/2018	3:45	41	54	49	45	29	0.0	0.0	0.9	113	17	90	716
10/12/2018	4:00	41	54	49	46	29	0.0	0.0	0.9	113	17	90	716
10/12/2018	4:15	44	61	52	48	30	0.0	0.0	1.3	113	17	90	716
10/12/2018	4:30	51	76	64	54	33	0.0	0.0	0.4	113	17	89	717

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	4:45	48	75	55	45	35	0.0	0.0	0.9	113	17	88	717
10/12/2018	5:00	47	66	58	50	34	0.0	0.0	0.4	113	17	88	717
10/12/2018	5:15	50	76	62	53	35	0.0	0.0	0.4	113	17	88	717
10/12/2018	5:30	46	66	59	46	33	0.0	0.0	0.0	0	18	88	717
10/12/2018	5:45	47	65	60	49	36	0.0	0.0	1.3	113	18	85	717
10/12/2018	6:00	47	65	58	50	36	0.0	0.4	2.2	113	19	84	717
10/12/2018	6:15	46	63	55	50	36	0.0	0.4	2.2	113	20	81	717
10/12/2018	6:30	50	75	62	50	36	0.0	0.9	2.7	90	20	79	717
10/12/2018	6:45	50	68	61	54	39	0.0	0.9	4.0	113	20	79	717
10/12/2018	7:00	49	68	62	51	38	0.0	1.3	4.5	90	20	77	717
10/12/2018	7:15	46	62	55	49	40	0.0	1.3	3.6	90	21	74	718
10/12/2018	7:30	44	58	54	47	39	0.0	1.8	3.6	68	22	72	718
10/12/2018	7:45	47	67	56	48	39	0.0	1.3	4.0	90	21	71	718
10/12/2018	8:00	50	75	59	52	41	0.0	1.3	4.9	90	23	65	718
10/12/2018	8:15	46	62	55	49	39	0.0	1.8	4.9	68	23	67	718
10/12/2018	8:30	47	65	57	50	40	0.0	1.8	4.0	90	23	67	718
10/12/2018	8:45	48	71	57	50	41	0.0	1.3	4.0	90	24	61	718
10/12/2018	9:00	44	56	52	47	39	0.0	1.8	4.5	90	24	60	718
10/12/2018	9:15	46	67	59	47	38	0.0	1.8	4.5	90	24	60	717
10/12/2018	9:30	45	66	55	47	37	0.0	1.3	4.5	90	25	59	717
10/12/2018	9:45	51	75	62	50	38	0.0	1.3	4.5	90	25	57	717
10/12/2018	10:00	43	62	53	47	37	0.0	1.3	4.0	90	25	57	717
10/12/2018	10:15	44	64	54	46	36	0.0	1.3	4.0	90	27	51	717
10/12/2018	10:30	43	74	53	43	34	0.0	1.8	4.9	113	26	52	717
10/12/2018	10:45	44	70	54	46	36	0.0	0.9	4.0	90	26	51	717
10/12/2018	11:00	43	61	56	44	35	0.0	0.9	4.0	90	27	49	717
10/12/2018	11:15	43	58	53	46	35	0.0	1.3	4.0	113	28	47	717
10/12/2018	11:30	42	59	52	46	34	0.0	1.3	4.0	113	28	47	717
10/12/2018	11:45	41	57	52	44	33	0.0	1.3	4.9	113	29	44	717
10/12/2018	12:00	43	69	53	43	33	0.0	1.3	3.6	113	29	44	717
10/12/2018	12:15	43	64	54	45	33	0.0	1.3	4.5	113	29	43	717
10/12/2018	12:30	43	57	52	47	35	0.0	1.3	4.0	90	29	44	717
10/12/2018	12:45	46	66	58	48	35	0.0	1.3	4.5	113	30	39	717
10/12/2018	13:00	42	62	53	45	34	0.0	1.3	4.5	113	30	41	716
10/12/2018	13:15	47	68	61	48	34	0.0	1.3	4.0	113	30	41	716
10/12/2018	13:30	44	70	56	45	33	0.0	0.9	3.6	113	30	39	716
10/12/2018	13:45	47	71	58	51	33	0.0	1.3	4.0	90	30	40	716
10/12/2018	14:00	45	62	56	47	35	0.0	0.9	3.1	90	31	39	716
10/12/2018	14:15	43	62	53	45	35	0.0	1.3	5.4	113	30	40	716
10/12/2018	14:30	44	62	54	47	37	0.0	1.3	3.6	90	30	41	715
10/12/2018	14:45	45	61	55	49	38	0.0	1.8	4.9	68	30	39	715
10/12/2018	15:00	47	71	54	47	37	0.0	1.3	5.4	90	31	39	715
10/12/2018	15:15	46	63	57	49	38	0.0	1.8	4.9	68	30	40	715
10/12/2018	15:30	47	70	57	49	39	0.0	1.3	3.6	90	31	39	715
10/12/2018	15:45	47	64	56	50	40	0.0	1.8	4.9	90	30	41	715
10/12/2018	16:00	44	62	55	46	38	0.0	2.2	5.4	68	30	41	715
10/12/2018	16:15	48	71	58	50	40	0.0	1.8	4.0	90	29	41	715
10/12/2018	16:30	47	64	55	50	40	0.0	2.2	4.5	68	29	42	715
10/12/2018	16:45	52	74	65	51	40	0.0	1.8	5.8	90	29	43	715
10/12/2018	17:00	46	65	55	49	41	0.0	1.8	5.4	68	29	43	715
10/12/2018	17:15	47	62	57	50	41	0.0	2.2	5.8	68	28	43	715
10/12/2018	17:30	48	68	58	50	40	0.0	2.2	4.5	68	28	43	715
10/12/2018	17:45	48	71	57	50	40	0.0	1.8	4.5	68	28	44	715
10/12/2018	18:00	48	73	58	51	40	0.0	1.8	4.5	68	27	45	715
10/12/2018	18:15	50	78	58	51	40	0.0	1.8	3.6	68	27	45	715
10/12/2018	18:30	48	68	58	50	40	0.0	1.3	3.1	90	26	47	715
10/12/2018	18:45	53	79	61	51	40	0.0	0.9	2.7	90	26	49	715
10/12/2018	19:00	52	68	56	53	50	0.0	1.3	3.1	90	25	50	716
10/12/2018	19:15	49	58	53	52	46	0.0	0.9	4.0	90	25	53	716
10/12/2018	19:30	50	59	55	52	48	0.0	1.8	3.6	90	25	54	716
10/12/2018	19:45	49	57	54	50	46	0.0	1.8	4.9	68	24	57	716
10/12/2018	20:00	48	57	53	50	47	0.0	1.8	4.5	68	24	59	716
10/12/2018	20:15	49	59	54	51	46	0.0	2.2	5.4	68	23	61	716
10/12/2018	20:30	49	58	53	50	46	0.0	2.2	6.3	68	23	64	716
10/12/2018	20:45	50	61	54	51	47	0.0	2.2	4.9	68	23	66	716
10/12/2018	21:00	49	57	52	50	48	0.0	2.2	4.9	68	22	68	716
10/12/2018	21:15	50	56	53	51	47	0.0	2.2	4.9	68	22	69	716
10/12/2018	21:30	50	57	53	51	49	0.0	2.2	4.9	68	21	70	716
10/12/2018	21:45	49	57	52	50	48	0.0	2.2	5.8	68	21	71	717
10/12/2018	22:00	49	56	52	50	48	0.0	1.8	4.5	68	21	72	717

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	22:15	49	57	52	50	47	0.0	1.8	4.5	68	20	73	717
10/12/2018	22:30	49	53	51	50	48	0.0	1.3	4.0	90	20	75	717
10/12/2018	22:45	49	55	52	49	47	0.0	1.3	4.0	90	20	76	717
10/12/2018	23:00	48	57	51	49	47	0.0	1.8	4.0	90	20	77	717
10/12/2018	23:15	48	55	52	49	47	0.0	0.9	3.6	90	19	78	717
10/12/2018	23:30	48	54	51	49	47	0.0	0.0	1.8	90	19	80	717
10/12/2018	23:45	48	57	51	49	46	0.0	0.4	2.2	90	19	80	717
11/12/2018	0:00	47	53	50	48	46	0.0	0.4	2.2	90	18	81	717
11/12/2018	0:15	47	54	50	49	44	0.0	0.4	2.2	90	18	82	717
11/12/2018	0:30	47	51	49	47	45	0.0	0.9	2.7	90	18	83	716
11/12/2018	0:45	46	54	49	47	44	0.0	0.9	3.1	90	18	85	716
11/12/2018	1:00	46	53	50	48	44	0.0	0.9	2.7	90	18	86	716
11/12/2018	1:15	44	58	54	47	33	0.0	0.9	2.7	90	17	86	716
11/12/2018	1:30	42	53	48	45	32	0.0	0.4	2.2	90	17	87	716
11/12/2018	1:45	35	50	45	38	28	0.0	0.9	2.2	90	17	88	716
11/12/2018	2:00	41	48	47	46	28	0.0	0.9	1.8	90	17	88	716
11/12/2018	2:15	36	50	46	39	27	0.0	0.9	2.2	90	17	89	716
11/12/2018	2:30	39	49	47	45	28	0.0	0.4	3.1	90	17	89	716
11/12/2018	2:45	39	61	48	40	27	0.0	0.4	1.8	90	17	89	716
11/12/2018	3:00	37	56	48	40	24	0.0	0.4	1.8	90	17	90	716
11/12/2018	3:15	37	52	47	41	27	0.0	0.0	1.8	90	17	90	716
11/12/2018	3:30	38	54	49	42	27	0.0	0.0	0.9	113	16	91	716
11/12/2018	3:45	39	60	47	41	27	0.0	0.0	0.4	113	16	91	716
11/12/2018	4:00	42	56	52	46	29	0.0	0.0	0.9	113	16	92	716
11/12/2018	4:15	43	59	52	48	31	0.0	0.0	1.3	113	16	92	716
11/12/2018	4:30	47	69	58	49	36	0.0	0.0	0.4	113	15	92	716
11/12/2018	4:45	47	61	57	51	37	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:00	47	65	57	50	37	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:15	51	81	62	52	38	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:30	50	72	60	53	39	0.0	0.0	0.4	113	15	93	717
11/12/2018	5:45	50	69	61	53	38	0.0	0.0	0.9	90	17	89	717
11/12/2018	6:00	47	65	57	49	39	0.0	0.4	1.8	90	19	83	717
11/12/2018	6:15	46	72	56	49	37	0.0	0.9	2.2	90	20	80	717
11/12/2018	6:30	46	69	57	48	36	0.0	0.9	2.7	90	20	77	717
11/12/2018	6:45	47	72	58	48	37	0.0	1.3	3.1	90	21	74	717
11/12/2018	7:00	46	67	57	48	37	0.0	1.3	3.1	90	22	72	717
11/12/2018	7:15	45	61	56	48	36	0.0	1.3	3.6	90	22	69	717
11/12/2018	7:30	44	64	55	46	37	0.0	1.3	4.0	90	22	68	717
11/12/2018	7:45	46	73	57	49	36	0.0	1.3	3.1	90	23	64	717
11/12/2018	8:00	46	63	57	49	35	0.0	0.9	3.6	90	23	64	717
11/12/2018	8:15	48	72	58	50	37	0.0	0.9	3.1	90	24	61	718
11/12/2018	8:30	45	59	56	49	36	0.0	0.9	3.1	90	25	59	718
11/12/2018	8:45	44	64	54	46	37	0.0	0.4	2.7	90	26	57	717
11/12/2018	9:00	48	76	57	46	36	0.0	1.3	4.0	113	25	55	718
11/12/2018	9:15	48	69	61	50	35	0.0	1.3	3.6	90	25	56	717
11/12/2018	9:30	48	69	57	50	37	0.0	1.3	4.0	90	26	55	717
11/12/2018	9:45	46	63	55	49	36	0.0	1.3	5.8	90	27	51	717
11/12/2018	10:00	42	62	53	45	35	0.0	1.3	5.8	113	27	50	718
11/12/2018	10:15	47	63	58	49	37	0.0	1.3	4.0	90	27	51	717
11/12/2018	10:30	45	64	58	46	35	0.0	1.3	4.5	90	28	47	717
11/12/2018	10:45	47	64	58	50	37	0.0	1.3	4.0	68	28	47	717
11/12/2018	11:00	46	64	58	50	34	0.0	1.8	4.5	90	28	47	717
11/12/2018	11:15	43	60	54	46	37	0.0	1.3	5.4	90	29	45	717
11/12/2018	11:30	44	65	53	46	38	0.0	1.3	3.6	90	29	42	717
11/12/2018	11:45	50	72	62	50	37	0.0	1.3	4.0	90	29	42	717
11/12/2018	12:00	49	71	60	51	38	0.0	1.8	4.9	90	29	44	717
11/12/2018	12:15	47	66	54	52	35	0.0	1.3	4.5	90	29	43	717
11/12/2018	12:30	45	61	55	48	35	0.0	1.3	4.9	90	30	42	717
11/12/2018	12:45	46	65	57	50	36	0.0	1.8	4.5	90	30	40	716
11/12/2018	13:00	55	79	69	50	36	0.0	1.3	4.9	90	30	40	716
11/12/2018	13:15	45	73	56	46	35	0.0	1.8	5.4	90	30	41	716
11/12/2018	13:30	46	63	55	49	36	0.0	1.3	4.9	113	30	40	716
11/12/2018	13:45	44	59	54	46	36	0.0	2.2	5.8	68	30	40	716
11/12/2018	14:00	53	75	67	51	36	0.0	1.8	4.9	90	31	39	716
11/12/2018	14:15	47	66	57	49	39	0.0	1.8	5.4	90	31	40	716
11/12/2018	14:30	48	70	61	49	39	0.0	2.2	6.3	90	30	40	715
11/12/2018	14:45	45	66	55	48	36	0.0	1.8	4.9	90	30	41	715
11/12/2018	15:00	46	63	56	48	40	0.0	1.8	5.4	113	30	39	715
11/12/2018	15:15	49	73	59	52	39	0.0	1.8	4.5	90	30	40	715
11/12/2018	15:30	48	72	59	49	39	0.0	2.2	6.7	90	29	40	715

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Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	15:45	46	67	55	48	39	0.0	2.2	5.4	68	29	40	715
11/12/2018	16:00	46	62	55	48	39	0.0	2.2	4.9	68	30	40	715
11/12/2018	16:15	45	58	54	47	39	0.0	1.8	5.4	90	30	40	714
11/12/2018	16:30	45	63	54	47	40	0.0	2.2	5.8	90	29	40	714
11/12/2018	16:45	46	66	57	48	40	0.0	2.2	4.9	68	29	41	715
11/12/2018	17:00	48	66	59	50	40	0.0	2.2	5.8	68	29	42	715
11/12/2018	17:15	53	81	63	51	41	0.0	2.2	4.9	68	29	42	715
11/12/2018	17:30	49	73	58	52	43	0.0	2.2	6.3	68	28	44	715
11/12/2018	17:45	51	79	60	52	43	0.0	2.2	5.8	45	27	46	715
11/12/2018	18:00	51	71	63	53	43	0.0	2.2	6.3	45	27	48	715
11/12/2018	18:15	49	70	59	52	42	0.0	2.2	6.3	68	26	50	715
11/12/2018	18:30	55	76	69	51	41	0.0	2.7	5.4	45	26	53	715
11/12/2018	18:45	47	58	54	50	42	0.0	2.7	5.8	68	25	56	715
11/12/2018	19:00	54	63	57	55	47	0.0	2.7	7.2	45	25	57	715
11/12/2018	19:15	54	59	56	55	52	0.0	2.7	5.8	68	24	59	715
11/12/2018	19:30	53	61	56	55	52	0.0	2.7	6.3	45	24	60	716
11/12/2018	19:45	53	64	57	55	52	0.0	2.7	6.7	68	23	62	716
11/12/2018	20:00	52	58	54	53	51	0.0	2.7	6.3	45	23	64	716
11/12/2018	20:15	53	69	57	54	51	0.0	2.7	6.3	68	23	65	717
11/12/2018	20:30	54	61	56	55	53	0.0	2.7	7.2	68	22	66	717
11/12/2018	20:45	53	59	56	54	52	0.0	2.7	5.8	45	22	68	717
11/12/2018	21:00	53	60	56	54	52	0.0	2.2	4.5	45	21	70	716
11/12/2018	21:15	53	59	55	54	51	0.0	2.7	6.7	45	21	71	717
11/12/2018	21:30	52	58	55	54	50	0.0	2.7	6.3	45	21	73	717
11/12/2018	21:45	52	55	54	53	50	0.0	2.2	5.4	68	21	75	717
11/12/2018	22:00	51	54	53	52	49	0.0	1.8	4.5	68	20	76	717
11/12/2018	22:15	52	55	54	52	50	0.0	1.8	5.8	68	20	77	717
11/12/2018	22:30	52	58	54	53	51	0.0	2.2	5.8	68	20	78	717
11/12/2018	22:45	52	54	54	53	51	0.0	1.8	4.5	68	20	78	717
11/12/2018	23:00	52	58	54	53	51	0.0	1.3	3.6	68	20	79	717
11/12/2018	23:15	52	57	55	53	51	0.0	1.8	4.0	68	19	80	717
11/12/2018	23:30	52	55	54	53	51	0.0	1.3	4.0	68	19	81	717
11/12/2018	23:45	52	55	54	53	50	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:00	52	59	54	53	49	0.0	1.8	4.0	68	19	81	716
12/12/2018	0:15	51	55	53	52	49	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:30	49	56	54	53	37	0.0	0.9	3.1	90	19	81	716
12/12/2018	0:45	52	55	54	53	49	0.0	0.9	3.1	90	19	82	716
12/12/2018	1:00	51	55	54	53	39	0.0	0.9	3.6	90	19	83	716
12/12/2018	1:15	52	57	54	54	50	0.0	0.9	2.2	90	18	84	716
12/12/2018	1:30	47	62	53	52	35	0.0	1.3	4.0	90	18	83	716
12/12/2018	1:45	39	56	47	42	34	0.0	1.8	4.0	90	18	83	715
12/12/2018	2:00	39	58	45	41	35	0.0	1.8	4.5	90	18	83	715
12/12/2018	2:15	40	60	46	43	34	0.0	1.8	4.0	68	18	84	715
12/12/2018	2:30	41	60	47	42	36	0.0	1.8	4.9	68	18	84	715
12/12/2018	2:45	40	50	48	44	35	0.0	1.8	4.0	68	18	85	715
12/12/2018	3:00	38	51	47	41	30	0.0	1.3	4.0	90	18	86	715
12/12/2018	3:15	38	55	49	41	27	0.0	0.4	2.2	113	18	87	715
12/12/2018	3:30	39	56	49	43	30	0.0	0.0	1.3	113	18	87	715
12/12/2018	3:45	40	52	49	44	30	0.0	0.4	1.8	90	17	87	715
12/12/2018	4:00	37	50	46	41	30	0.0	0.9	3.1	90	18	85	715
12/12/2018	4:15	42	60	54	45	31	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:30	50	73	60	55	36	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:45	46	69	57	47	34	0.0	0.0	1.3	90	17	86	715
12/12/2018	5:00	45	64	55	48	36	0.0	0.4	1.8	90	17	86	715
12/12/2018	5:15	51	80	58	49	39	0.0	0.4	2.7	90	17	86	715
12/12/2018	5:30	51	77	63	53	40	0.0	0.4	1.8	113	18	86	715
12/12/2018	5:45	48	71	57	50	39	0.0	0.9	4.5	90	19	83	715
12/12/2018	6:00	48	69	58	51	40	0.0	1.8	3.6	68	19	80	715
12/12/2018	6:15	47	62	57	49	38	0.0	1.8	4.5	68	20	79	715
12/12/2018	6:30	48	75	59	50	38	0.0	1.8	4.5	68	20	78	715
12/12/2018	6:45	45	60	56	48	38	0.0	1.3	4.5	90	20	76	716
12/12/2018	7:00	43	62	52	45	38	0.0	1.8	4.0	68	21	73	716
12/12/2018	7:15	47	70	56	48	38	0.0	1.3	4.0	90	22	70	716
12/12/2018	7:30	46	67	56	48	39	0.0	1.3	4.5	90	22	67	716
12/12/2018	7:45	46	63	57	48	37	0.0	1.3	4.0	90	23	65	716
12/12/2018	8:00	46	65	57	49	38	0.0	1.3	3.1	90	23	64	716
12/12/2018	8:15	46	61	57	49	39	0.0	1.3	3.1	90	24	60	716
12/12/2018	8:30	47	63	57	51	40	0.0	1.3	4.5	90	24	61	716
12/12/2018	8:45	46	65	57	49	40	0.0	1.8	4.0	68	25	57	716
12/12/2018	9:00	46	61	55	48	39	0.0	1.8	4.9	90	25	55	716

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Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018	9:15	45	66	55	47	39	0.0	1.8	5.4	90	25	54	716
12/12/2018	9:30	55	76	70	56	39	0.0	1.8	4.9	90	26	52	716
12/12/2018	9:45	48	71	60	52	37	0.0	1.8	4.9	90	26	53	716
12/12/2018	10:00	46	66	57	48	36	0.0	1.3	4.5	90	27	52	716
12/12/2018	10:15	45	64	57	47	36	0.0	1.8	4.0	90	27	48	716
12/12/2018	10:30	44	61	54	46	35	0.0	1.3	5.4	113	27	48	716
12/12/2018	10:45	47	69	59	49	36	0.0	1.3	4.5	90	28	47	716
12/12/2018	11:00	43	60	54	45	35	0.0	1.3	4.5	90	28	46	715
12/12/2018	11:15	42	56	52	44	35	0.0	1.3	3.1	90	29	43	715
12/12/2018	11:30	41	58	51	43	36	0.0	1.3	4.5	90	29	44	715
12/12/2018	11:45	43	65	54	46	36	0.0	1.8	4.0	90	30	41	715
12/12/2018	12:00	43	65	54	45	35	0.0	1.3	4.5	90	30	41	715
12/12/2018	12:15	42	56	51	44	36	0.0	0.9	4.5	90	31	40	715
12/12/2018	12:30	50	75	59	47	35	0.0	1.8	4.5	90	31	40	714
12/12/2018	12:45	45	60	55	48	35	0.0	1.3	4.0	90	31	40	714
12/12/2018	13:00	57	86	71	52	34	0.0	1.3	4.9	113	31	39	714
12/12/2018	13:15	44	64	56	47	37	0.0	1.3	4.0	90	32	38	714
12/12/2018	13:30	42	59	53	44	35	0.0	1.3	4.5	90	32	38	714
12/12/2018	13:45	45	70	56	47	36	0.0	1.3	3.6	113	32	39	714
12/12/2018	14:00	44	62	55	46	37	0.0	1.8	4.5	90	32	40	713
12/12/2018	14:15	44	60	54	47	35	0.0	1.8	4.9	90	32	38	713
12/12/2018	14:30	44	59	54	47	36	0.0	1.8	4.9	90	31	39	713
12/12/2018	14:45	44	61	53	47	36	0.0	1.8	5.4	113	31	39	713
12/12/2018	15:00	45	61	55	48	38	0.0	1.8	4.5	90	32	39	713
12/12/2018	15:15	44	60	55	47	36	0.0	1.3	3.6	90	32	38	713
12/12/2018	15:30	43	58	53	45	35	0.0	1.3	5.4	90	32	39	713
12/12/2018	15:45	45	60	55	49	37	0.0	1.3	3.6	113	31	39	713
12/12/2018	16:00	46	68	56	49	38	0.0	1.3	4.0	90	31	40	713
12/12/2018	16:15	45	61	55	49	38	0.0	1.3	4.0	90	30	41	712
12/12/2018	16:30	46	66	56	48	38	0.0	1.8	4.5	90	30	42	712
12/12/2018	16:45	48	72	57	51	40	0.0	1.8	3.6	90	30	43	712
12/12/2018	17:00	49	65	60	52	39	0.0	1.3	4.9	90	29	43	712
12/12/2018	17:15	46	63	55	49	40	0.0	1.8	4.9	68	29	44	712
12/12/2018	17:30	49	66	58	52	41	0.0	2.7	5.4	68	29	45	712
12/12/2018	17:45	48	62	57	50	43	0.0	2.2	5.8	68	28	46	713
12/12/2018	18:00	51	77	60	52	43	0.0	2.7	5.4	68	28	47	713
12/12/2018	18:15	50	73	59	52	44	0.0	2.7	6.3	68	27	48	713
12/12/2018	18:30	51	69	60	54	45	0.0	2.7	5.8	45	26	51	713
12/12/2018	18:45	50	66	57	53	44	0.0	3.1	7.2	68	26	53	713
12/12/2018	19:00	55	65	59	57	52	0.0	3.1	7.2	45	25	55	713
12/12/2018	19:15	53	62	57	55	50	0.0	3.1	6.7	45	25	57	713
12/12/2018	19:30	51	60	56	53	47	0.0	3.1	7.2	45	24	59	713
12/12/2018	19:45	52	63	57	55	49	0.0	3.1	6.7	45	24	62	713
12/12/2018	20:00	53	62	57	54	51	0.0	3.6	7.2	45	23	63	713
12/12/2018	20:15	52	61	56	54	51	0.0	3.1	6.3	45	23	65	713
12/12/2018	20:30	50	63	56	53	45	0.0	2.2	6.3	45	23	66	713
12/12/2018	20:45	49	61	55	52	46	0.0	2.7	5.8	68	22	67	713
12/12/2018	21:00	49	58	55	51	47	0.0	2.7	5.8	68	22	69	714
12/12/2018	21:15	50	64	56	52	47	0.0	2.7	6.7	45	22	70	713
12/12/2018	21:30	50	62	57	52	47	0.0	2.7	6.3	45	21	72	714
12/12/2018	21:45	49	63	55	51	47	0.0	2.2	5.8	68	21	73	714
12/12/2018	22:00	49	57	53	50	47	0.0	2.2	5.4	68	21	75	714
12/12/2018	22:15	51	59	56	53	48	0.0	2.2	5.8	68	21	76	714
12/12/2018	22:30	52	61	54	53	50	0.0	2.2	6.3	68	21	77	714
12/12/2018	22:45	52	54	53	53	49	0.0	2.2	5.8	68	21	77	714
12/12/2018	23:00	50	57	53	52	44	0.0	1.8	4.9	90	20	77	714
12/12/2018	23:15	50	57	53	52	44	0.0	1.8	4.9	90	20	78	714
12/12/2018	23:30	49	58	53	53	43	0.0	1.3	2.7	90	20	79	714
12/12/2018	23:45	50	55	53	52	44	0.0	1.8	4.5	90	20	82	713
13/12/2018	0:00	51	54	52	52	49	0.0	1.3	3.6	68	20	82	713
13/12/2018	0:15	51	55	53	52	49	0.0	1.3	4.0	68	20	81	713
13/12/2018	0:30	52	55	54	53	49	0.0	0.9	2.7	90	20	81	713
13/12/2018	0:45	51	55	53	52	50	0.0	0.9	3.1	90	19	82	713
13/12/2018	1:00	51	55	53	52	48	0.0	0.9	2.7	90	19	82	713
13/12/2018	1:15	51	62	53	52	49	0.0	1.3	6.3	68	19	83	713
13/12/2018	1:30	51	58	53	52	49	0.0	1.3	4.5	90	19	84	712
13/12/2018	1:45	51	57	52	52	48	0.0	0.9	2.2	90	19	84	713
13/12/2018	2:00	51	55	53	52	50	0.0	0.4	2.7	90	19	84	712
13/12/2018	2:15	50	53	53	52	41	0.0	0.4	1.8	158	19	84	712
13/12/2018	2:30	46	59	52	49	39	0.0	0.9	4.5	90	19	84	711

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
13/12/2018	2:45	46	61	53	49	39	0.0	2.2	6.3	45	19	84	711
13/12/2018	3:00	40	50	46	43	33	0.0	1.8	5.4	68	19	85	712
13/12/2018	3:15	40	51	50	43	33	0.0	0.0	0.9	158	19	85	712
13/12/2018	3:30	44	55	50	49	35	0.0	0.0	1.3	90	19	86	712
13/12/2018	3:45	40	54	48	43	34	0.0	0.0	0.9	90	19	86	712
13/12/2018	4:00	43	55	51	47	33	0.0	0.0	0.9	90	18	86	712
13/12/2018	4:15	45	63	53	48	34	0.0	0.0	0.4	113	18	86	712
13/12/2018	4:30	44	65	55	46	36	0.0	0.0	0.9	90	18	86	712
13/12/2018	4:45	53	81	65	55	35	0.0	0.0	0.9	90	18	86	712
13/12/2018	5:00	49	73	62	52	36	0.0	0.0	0.4	113	18	87	713
13/12/2018	5:15	56	85	62	52	36	0.0	0.0	0.0	0	18	88	713
13/12/2018	5:30	49	69	61	52	35	0.0	0.0	0.0	0	18	88	713
13/12/2018	5:45	49	66	59	53	38	0.0	0.0	0.4	113	18	87	713
13/12/2018	6:00	51	80	61	53	37	0.0	0.0	0.9	113	19	85	713
13/12/2018	6:15	50	67	61	53	39	0.0	0.9	3.1	0	21	77	713
13/12/2018	6:30	47	66	57	49	37	0.0	1.3	3.6	0	22	75	713
13/12/2018	6:45	47	67	59	48	36	0.0	1.3	2.2	90	22	73	713
13/12/2018	7:00	45	60	55	49	38	0.0	0.9	2.2	158	22	74	713
13/12/2018	7:15	47	67	58	50	37	0.0	0.9	2.2	113	22	73	713
13/12/2018	7:30	46	72	57	48	36	0.0	0.4	2.7	90	22	72	713
13/12/2018	7:45	47	68	59	49	35	0.0	0.4	1.3	90	22	71	713
13/12/2018	8:00	44	62	56	47	35	0.0	0.4	1.8	158	22	70	713
13/12/2018	8:15	47	65	57	49	36	0.0	0.4	1.8	90	23	69	713
13/12/2018	8:30	48	69	58	50	37	0.0	0.9	2.7	158	24	66	713
13/12/2018	8:45	47	61	57	50	39	0.0	1.3	3.1	158	25	63	713
13/12/2018	9:00	49	75	60	52	37	0.0	1.3	3.6	90	25	62	713
13/12/2018	9:15	48	69	58	50	39	0.0	1.3	3.6	90	25	61	712
13/12/2018	9:30	46	66	57	48	38	0.0	1.3	3.1	90	25	59	712
13/12/2018	9:45	46	68	56	49	37	0.0	1.3	3.1	90	26	58	712
13/12/2018	10:00	47	63	57	50	39	0.0	1.3	4.5	90	27	55	712
13/12/2018	10:15	52	85	58	51	41	0.0	1.8	3.6	0	27	54	712
13/12/2018	10:30	48	71	57	51	41	0.0	1.3	4.9	90	28	64	712

Noise Monitoring Data Sheet

Inland Rail

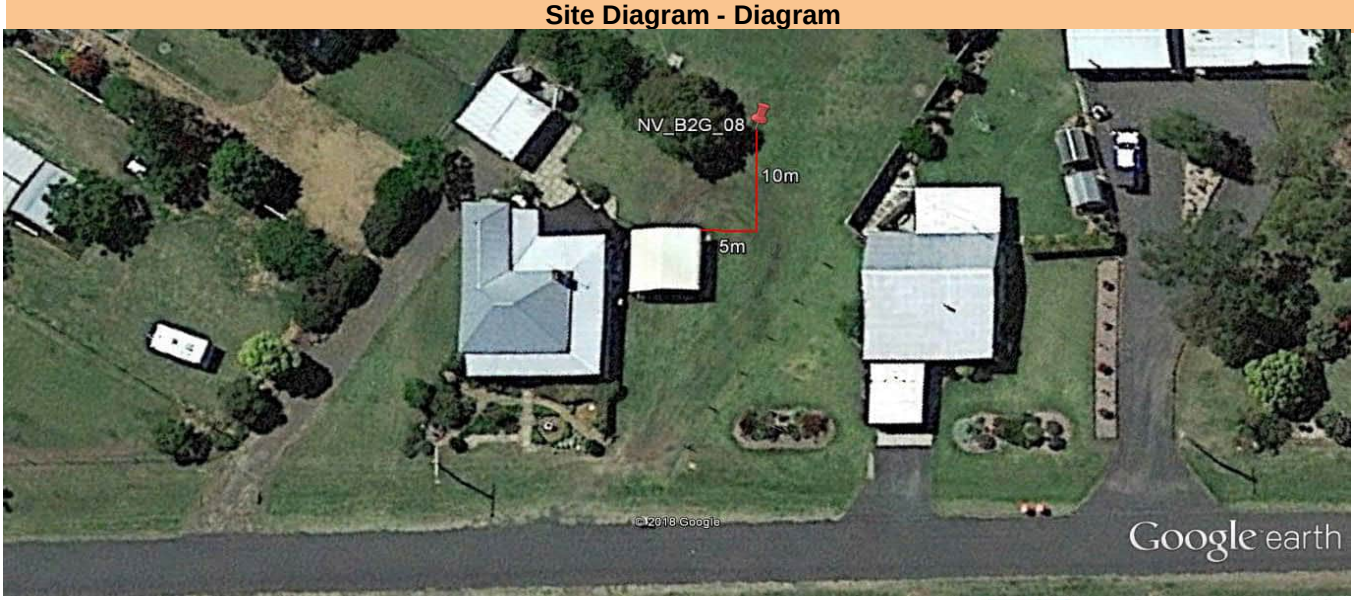
SITE ID

B2G_08

From	Friday 7/12/2018 9:30	Meas. Type	Free Field	Package	Border to Gowrie
To	Friday 14/12/2018 8:30	Mic. Height (m)	1.8	Address	11 Hadley Street
Instrument Type	Larson Davis 831	Weather Station	No	Suburb	Pittsworth
Instrument Serial #	1621	Operator	JR	Land Use	Residential
Inst. Cal. Date	15/8/2017	Sample Int.	15 min	Latitude	27°42'46.91"S
Pre Calibration	94	RP Lot#	15RP178514	Longitude	151°38'10.73"E
Post Calibration	94				

Daytime		Evening		Night	
RBL	**37.0 dB(A)**	RBL	**36.9 dB(A)**	RBL	**25.4 dB(A)**
ABLs Day (Mon-Fri 7am - 6 pm)		ABLs Evening (Mon-Fri 6 pm - 10 pm)		ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)	
ABLs Day (Sat 8 am - 1 pm)		ABLs Evening (Sat 1 pm - 10 pm)		ABLs Night (Fri 6pm - 8am)	
		ABLs Evening (Sun 7 am - 10 pm)			
Friday 7/12/2018	39.8 dB(A)	Friday 7/12/2018	34.2 dB(A)	Friday 7/12/2018	23.8 dB(A)
Saturday 8/12/2018	41 dB(A)	Saturday 8/12/2018	34.6 dB(A)	Saturday 8/12/2018	25.4 dB(A)
		Sunday 9/12/2018	35.9 dB(A)	Sunday 9/12/2018	<23 dB(A)
Monday 10/12/2018	34.7 dB(A)	Monday 10/12/2018	36.9 dB(A)	Monday 10/12/2018	25.4 dB(A)
Tuesday 11/12/2018	36.4 dB(A)	Tuesday 11/12/2018	39.3 dB(A)	Tuesday 11/12/2018	28.2 dB(A)
Wednesday 12/12/2018	35.9 dB(A)	Wednesday 12/12/2018	39.2 dB(A)	Wednesday 12/12/2018	28.9 dB(A)
Thursday 13/12/2018	37.6 dB(A)	Thursday 13/12/2018	37.9 dB(A)	Thursday 13/12/2018	33.8 dB(A)

Site Diagram - Diagram



Future Freight
Integrating Community, Environment and Engineering

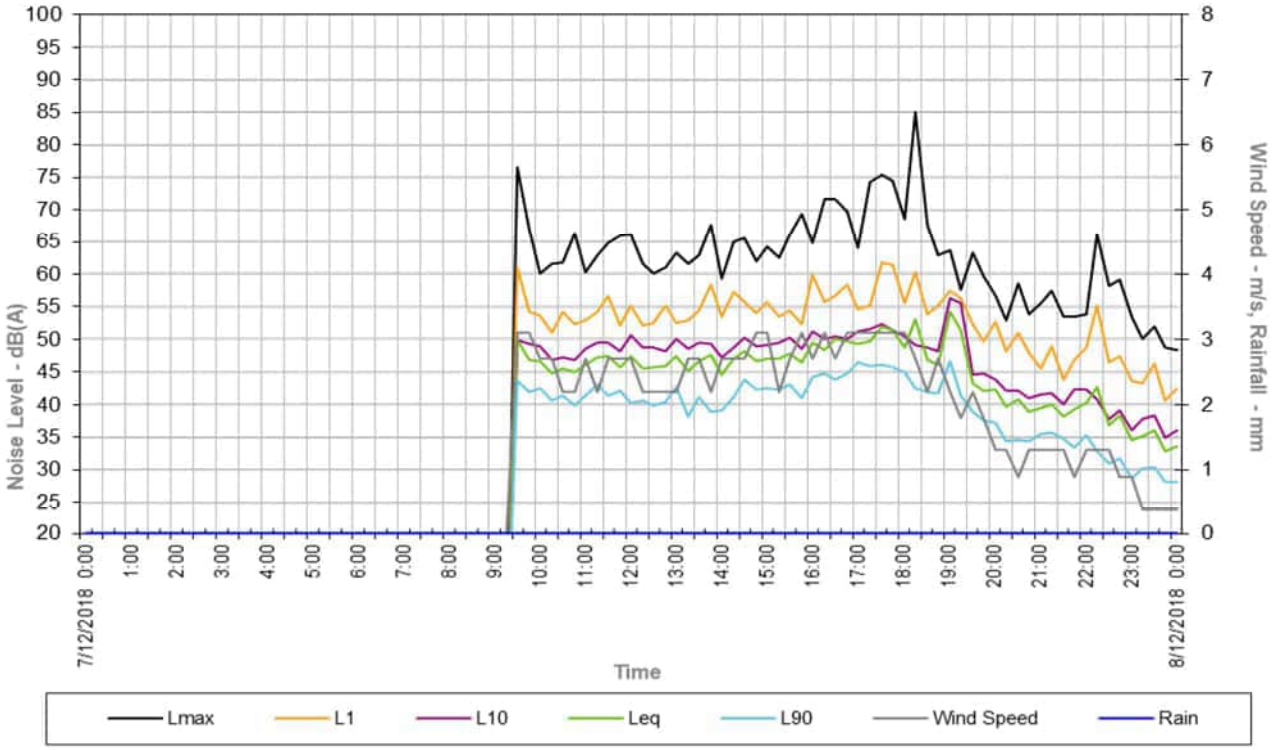
Site Attended Measurements Summary

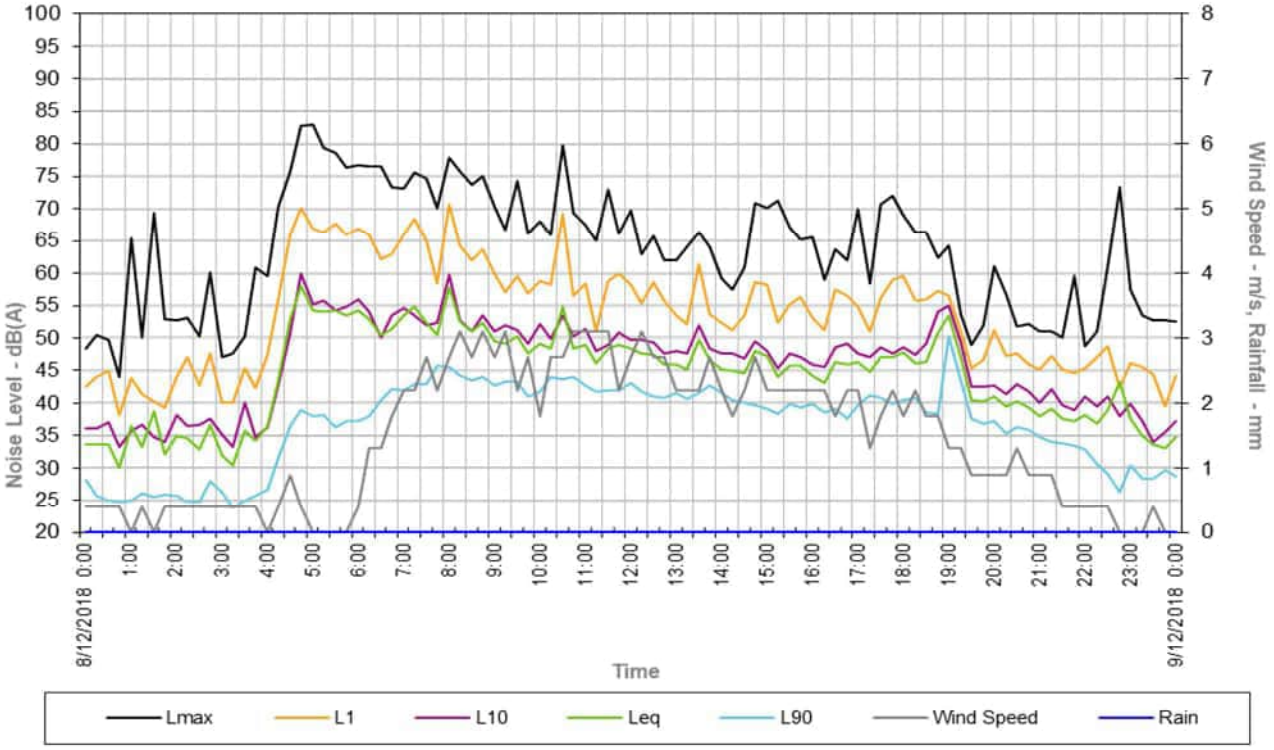
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
7/12/2018	9:15 AM	Attended	70.1	59.3	48.8	42.4	48.4	Pass	9:30 AM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Attended measurement taken before the start of logging. Background noise is tree rustle and insect noise 42 dB(A). Distant road traffic noise at 45 dB(A). Dog barking in distance at 46 dB(A). Local road car pass by at 50 dB(A). Nearby birds at 50-70 dB(A).								
14/12/2018	8:30 AM	Attended	77.9	52.6	46.6	39.2	46.5	Fail	8:45 AM
		Logged	71.9	54.1	48.7	42.3	46.8		
		Difference	6.0	-1.5	-2.1	-3.1	-0.3		
Comments	Bird noise at 40-77 dB(A). Gore highway traffic barely audible.								

Photos

Site Noise and Weather Graphical Analysis

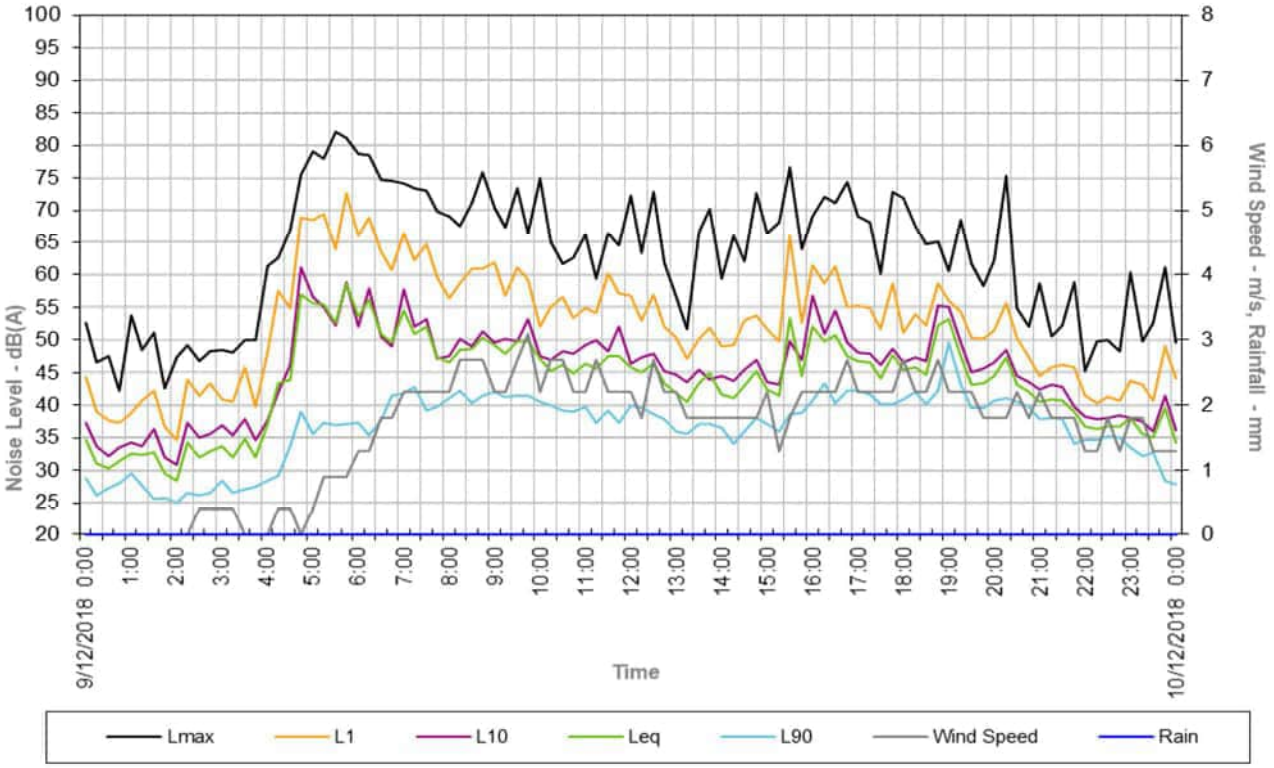
11 Hadley Street

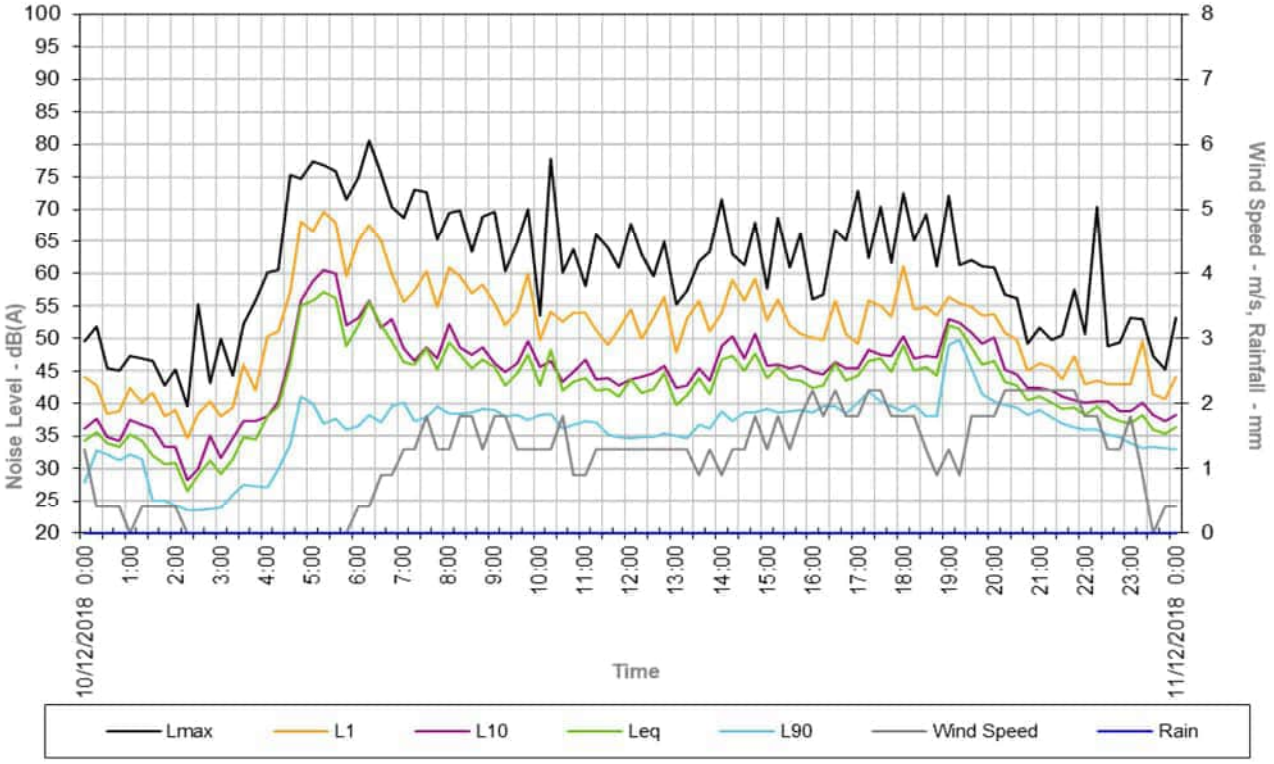




Site Noise and Weather Graphical Analysis

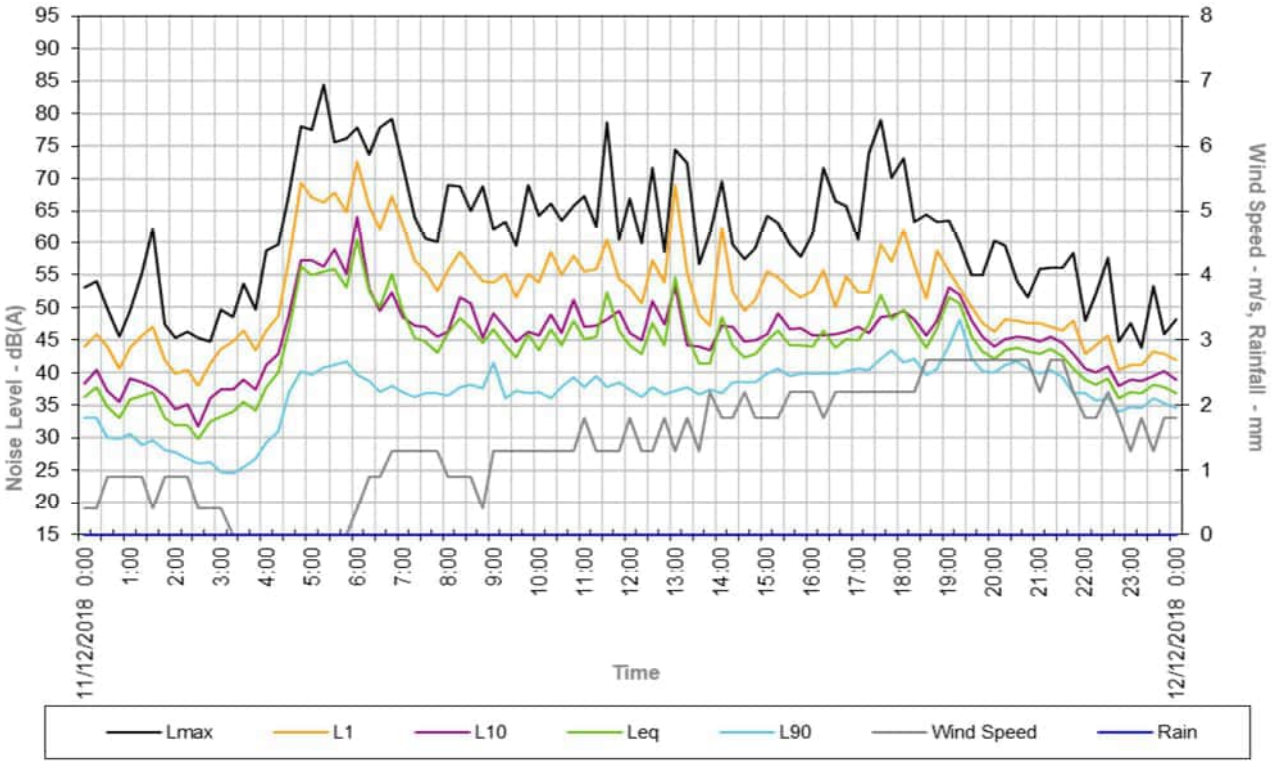
11 Hadley Street

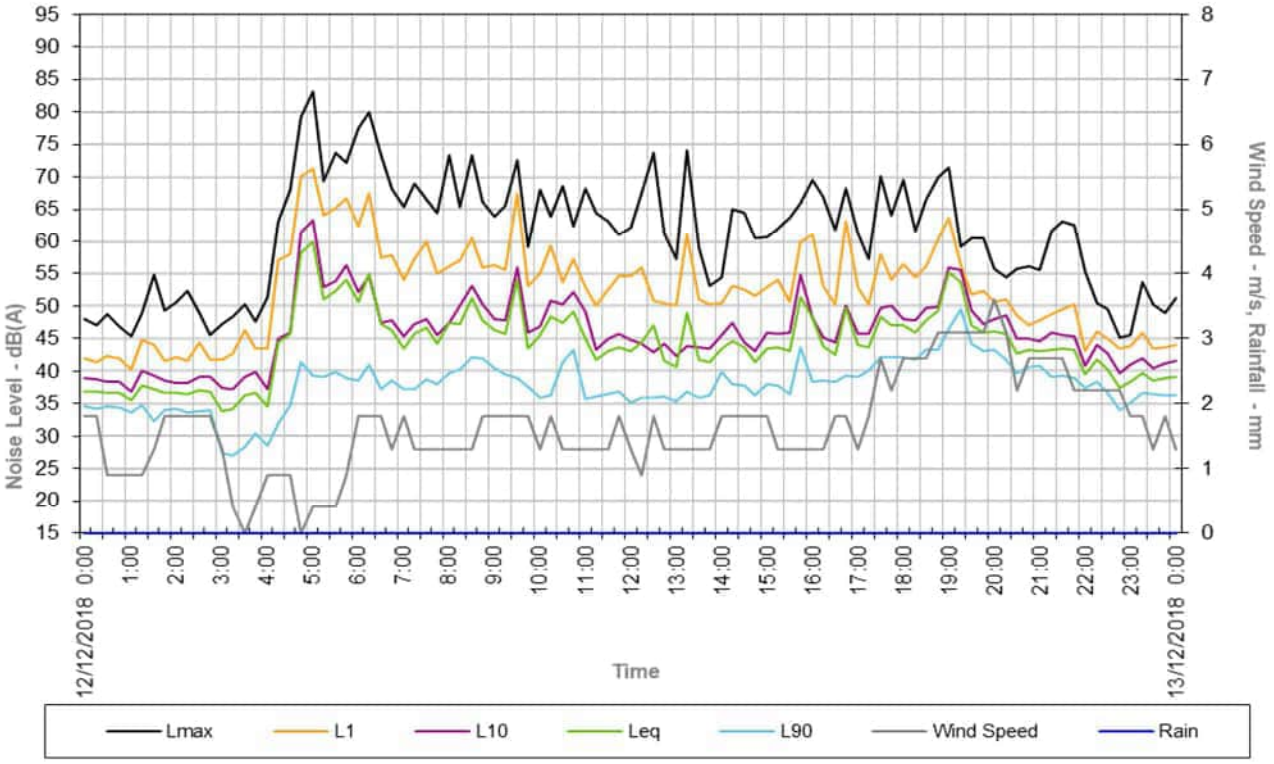




Site Noise and Weather Graphical Analysis

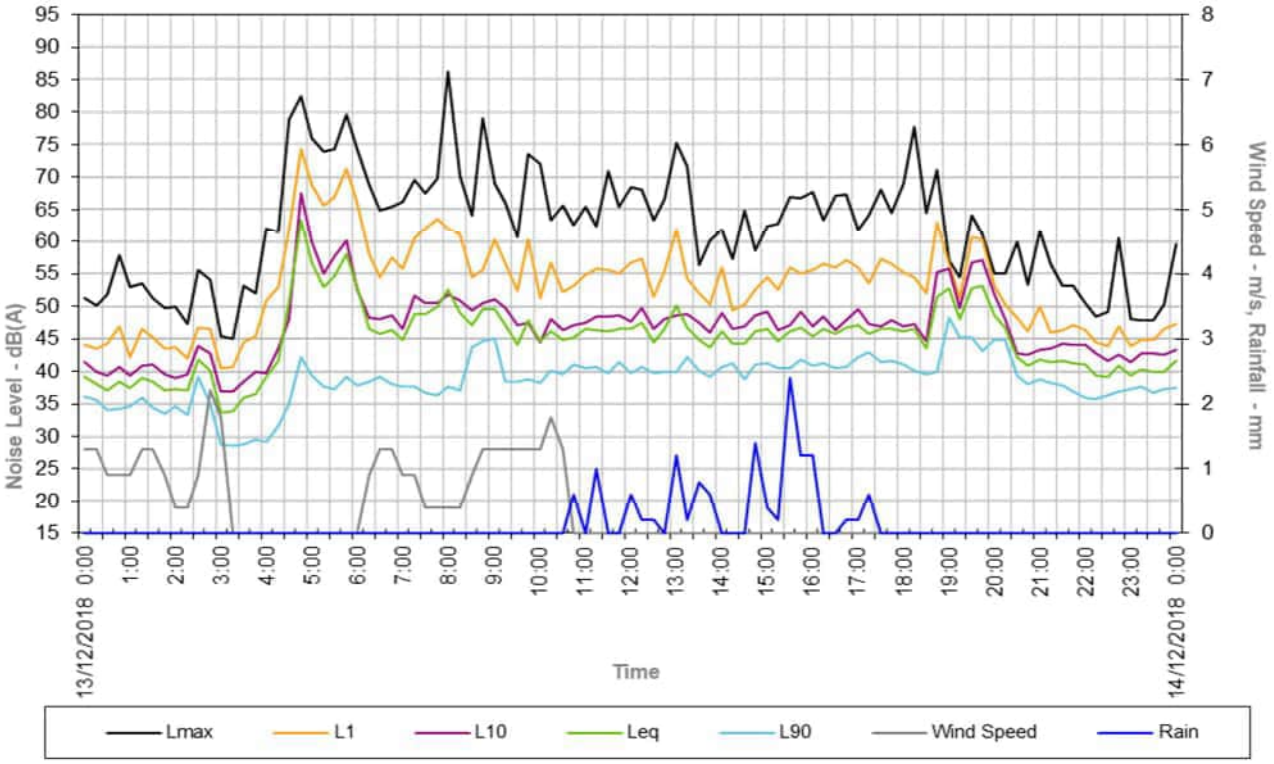
11 Hadley Street

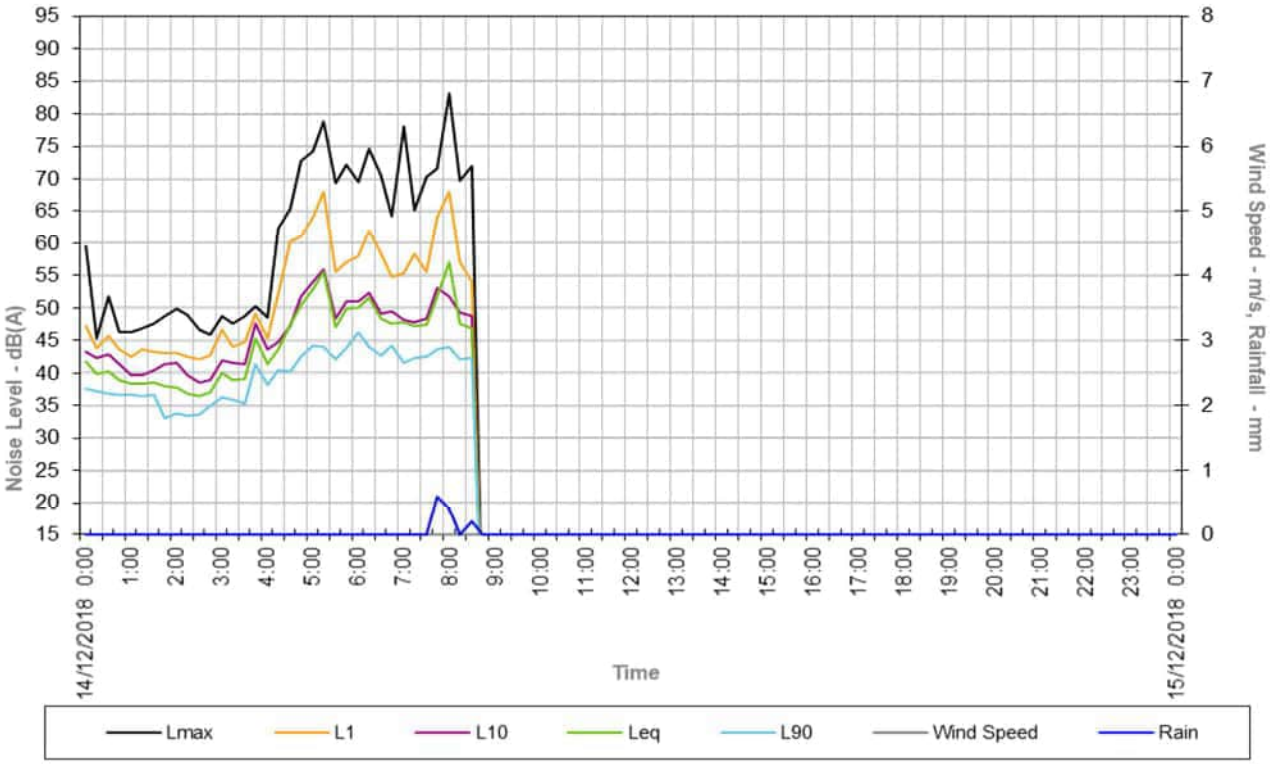




Site Noise and Weather Graphical Analysis

11 Hadley Street





Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018	9:30	50	77	61	50	44	0.0	3.1	7.2	45	22	51	720
7/12/2018	9:45	47	67	54	49	42	0.0	3.1	6.3	90	23	50	720
7/12/2018	10:00	47	60	54	49	43	0.0	2.7	5.8	45	23	51	720
7/12/2018	10:15	45	62	51	47	41	0.0	2.7	6.7	90	23	52	720
7/12/2018	10:30	46	62	54	47	41	0.0	2.2	4.9	68	23	51	720
7/12/2018	10:45	45	66	52	47	40	0.0	2.2	5.8	68	24	51	720
7/12/2018	11:00	46	60	53	49	41	0.0	2.7	5.4	68	24	50	720
7/12/2018	11:15	47	63	54	50	43	0.0	2.2	5.8	90	24	48	720
7/12/2018	11:30	47	65	57	50	41	0.0	2.7	5.8	90	24	47	720
7/12/2018	11:45	46	66	52	48	42	0.0	2.7	7.2	90	25	46	720
7/12/2018	12:00	47	66	55	51	40	0.0	2.7	5.4	90	24	47	720
7/12/2018	12:15	46	62	52	49	41	0.0	2.2	5.4	113	25	46	720
7/12/2018	12:30	46	60	53	49	40	0.0	2.2	5.4	90	25	45	720
7/12/2018	12:45	46	61	55	48	41	0.0	2.2	5.4	113	26	44	720
7/12/2018	13:00	48	63	53	50	43	0.0	2.2	6.3	68	25	45	720
7/12/2018	13:15	45	62	53	49	38	0.0	2.7	5.4	90	25	45	719
7/12/2018	13:30	47	63	54	50	41	0.0	2.7	6.3	113	25	44	719
7/12/2018	13:45	48	68	58	49	39	0.0	2.2	5.8	113	26	42	719
7/12/2018	14:00	45	59	53	47	39	0.0	2.7	6.7	90	25	43	719
7/12/2018	14:15	47	65	57	49	41	0.0	2.7	6.3	68	25	46	719
7/12/2018	14:30	48	66	56	50	44	0.0	2.7	5.4	68	24	48	719
7/12/2018	14:45	47	62	54	49	42	0.0	3.1	7.2	45	25	49	719
7/12/2018	15:00	47	64	56	49	43	0.0	3.1	6.3	68	25	47	719
7/12/2018	15:15	47	63	54	50	42	0.0	2.2	6.7	45	25	47	719
7/12/2018	15:30	48	66	55	50	43	0.0	2.7	6.3	68	25	49	718
7/12/2018	15:45	47	69	52	49	41	0.0	3.1	8.0	45	25	48	719
7/12/2018	16:00	50	65	60	51	44	0.0	2.7	8.0	45	24	48	719
7/12/2018	16:15	48	72	56	50	45	0.0	3.1	6.7	45	24	48	718
7/12/2018	16:30	50	72	57	51	44	0.0	2.7	6.3	68	24	50	718
7/12/2018	16:45	50	70	58	50	45	0.0	3.1	6.7	68	24	48	718
7/12/2018	17:00	49	64	55	51	46	0.0	3.1	6.3	45	23	49	718
7/12/2018	17:15	50	74	55	52	46	0.0	3.1	7.2	45	23	52	719
7/12/2018	17:30	52	75	62	52	46	0.0	3.1	7.2	45	22	55	719
7/12/2018	17:45	51	75	62	51	46	0.0	3.1	6.3	90	22	57	719
7/12/2018	18:00	49	69	56	50	45	0.0	3.1	7.2	45	21	59	719
7/12/2018	18:15	53	85	60	49	43	0.0	2.7	6.3	90	21	60	719
7/12/2018	18:30	47	68	54	49	42	0.0	2.2	4.9	90	20	62	719
7/12/2018	18:45	46	63	55	48	42	0.0	2.7	5.8	68	20	64	719
7/12/2018	19:00	54	64	58	56	47	0.0	2.2	6.3	90	20	66	720
7/12/2018	19:15	51	58	56	56	41	0.0	1.8	5.4	90	19	66	720
7/12/2018	19:30	43	63	52	45	39	0.0	2.2	5.4	68	19	68	720
7/12/2018	19:45	42	60	50	45	38	0.0	1.8	4.0	90	18	71	720
7/12/2018	20:00	42	57	53	44	37	0.0	1.3	6.3	113	18	73	720
7/12/2018	20:15	40	53	48	42	34	0.0	1.3	4.0	90	18	74	720
7/12/2018	20:30	41	59	51	42	35	0.0	0.9	3.1	90	18	75	720
7/12/2018	20:45	39	54	48	41	34	0.0	1.3	4.0	90	17	76	720
7/12/2018	21:00	40	56	46	42	36	0.0	1.3	3.1	90	17	76	720
7/12/2018	21:15	40	58	49	42	36	0.0	1.3	3.6	90	17	75	720
7/12/2018	21:30	38	53	44	40	35	0.0	1.3	3.6	113	17	75	720
7/12/2018	21:45	39	53	47	42	34	0.0	0.9	3.1	90	17	75	720
7/12/2018	22:00	40	54	49	42	35	0.0	1.3	3.6	90	17	76	721
7/12/2018	22:15	43	66	55	41	33	0.0	1.3	4.0	90	17	76	720
7/12/2018	22:30	37	58	47	38	31	0.0	1.3	3.6	113	17	77	720
7/12/2018	22:45	38	59	48	39	32	0.0	0.9	3.1	90	16	78	720
7/12/2018	23:00	35	54	44	36	29	0.0	0.9	2.2	113	16	79	720
7/12/2018	23:15	35	50	43	38	30	0.0	0.4	3.1	113	16	79	720
7/12/2018	23:30	36	52	46	38	30	0.0	0.4	2.7	113	16	78	720
7/12/2018	23:45	33	49	41	35	28	0.0	0.4	3.1	113	16	78	720
8/12/2018	0:00	34	48	43	36	28	0.0	0.4	3.1	113	16	77	720
8/12/2018	0:15	34	50	44	36	26	0.0	0.4	2.2	113	16	78	720
8/12/2018	0:30	34	50	45	37	25	0.0	0.4	1.8	113	16	78	720
8/12/2018	0:45	30	44	38	33	25	0.0	0.4	1.8	113	16	78	719
8/12/2018	1:00	37	65	44	36	25	0.0	0.0	1.3	113	16	78	719
8/12/2018	1:15	33	50	41	37	26	0.0	0.4	1.3	113	16	76	719
8/12/2018	1:30	39	69	40	35	26	0.0	0.0	1.3	113	16	77	719
8/12/2018	1:45	32	53	39	34	26	0.0	0.4	1.8	113	16	76	719
8/12/2018	2:00	35	53	44	38	26	0.0	0.4	2.2	113	16	76	719
8/12/2018	2:15	35	53	47	37	25	0.0	0.4	1.3	113	16	76	719
8/12/2018	2:30	33	50	43	37	25	0.0	0.4	1.8	113	16	76	719
8/12/2018	2:45	37	60	48	38	28	0.0	0.4	1.8	113	16	77	719

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	3:00	32	47	40	35	26	0.0	0.4	3.1	113	16	77	719
8/12/2018	3:15	30	48	40	33	24	0.0	0.4	2.2	113	16	78	719
8/12/2018	3:30	36	50	45	40	25	0.0	0.4	2.7	113	16	79	719
8/12/2018	3:45	34	61	42	35	26	0.0	0.4	1.3	113	15	79	719
8/12/2018	4:00	36	60	48	36	27	0.0	0.0	1.3	113	15	79	719
8/12/2018	4:15	44	70	56	43	32	0.0	0.4	1.8	113	15	79	719
8/12/2018	4:30	53	76	66	51	37	0.0	0.9	2.7	113	15	79	719
8/12/2018	4:45	58	83	70	60	39	0.0	0.4	1.8	113	15	79	719
8/12/2018	5:00	54	83	67	55	38	0.0	0.0	0.9	113	15	79	719
8/12/2018	5:15	54	79	66	56	38	0.0	0.0	0.9	113	15	80	719
8/12/2018	5:30	54	79	68	54	36	0.0	0.0	0.9	113	15	79	719
8/12/2018	5:45	54	76	66	55	37	0.0	0.0	1.3	113	16	77	719
8/12/2018	6:00	54	77	67	56	37	0.0	0.4	2.2	113	17	75	719
8/12/2018	6:15	53	77	66	54	38	0.0	1.3	3.1	113	18	73	720
8/12/2018	6:30	51	77	62	50	41	0.0	1.3	4.0	113	18	72	720
8/12/2018	6:45	51	73	63	54	42	0.0	1.8	4.5	113	18	72	720
8/12/2018	7:00	54	73	66	55	42	0.0	2.2	6.7	90	19	71	720
8/12/2018	7:15	55	76	68	54	43	0.0	2.2	6.7	90	19	70	720
8/12/2018	7:30	52	75	65	52	43	0.0	2.7	5.4	90	19	69	720
8/12/2018	7:45	51	70	58	52	46	0.0	2.2	6.7	90	20	67	720
8/12/2018	8:00	58	78	71	60	46	0.0	2.7	6.3	90	20	65	720
8/12/2018	8:15	53	76	64	53	44	0.0	3.1	8.0	90	21	63	720
8/12/2018	8:30	51	74	62	51	44	0.0	2.7	6.3	90	21	61	720
8/12/2018	8:45	52	75	64	53	44	0.0	3.1	6.7	68	22	60	720
8/12/2018	9:00	50	70	60	51	43	0.0	2.7	7.2	68	22	58	720
8/12/2018	9:15	49	67	57	52	43	0.0	3.1	6.3	68	22	60	720
8/12/2018	9:30	50	74	60	51	43	0.0	2.2	6.3	90	23	57	720
8/12/2018	9:45	48	66	57	49	41	0.0	2.7	6.3	68	23	56	720
8/12/2018	10:00	49	68	59	52	42	0.0	1.8	5.8	68	23	56	720
8/12/2018	10:15	48	66	58	50	44	0.0	2.7	8.9	90	23	57	720
8/12/2018	10:30	55	80	69	53	44	0.0	2.7	5.8	90	23	56	720
8/12/2018	10:45	48	69	57	50	44	0.0	3.1	7.2	45	24	56	719
8/12/2018	11:00	49	68	58	52	43	0.0	3.1	6.7	68	24	56	720
8/12/2018	11:15	46	65	51	48	42	0.0	3.1	6.3	68	24	56	720
8/12/2018	11:30	48	73	59	49	42	0.0	3.1	7.2	68	23	59	720
8/12/2018	11:45	49	66	60	51	42	0.0	2.2	5.8	68	23	58	719
8/12/2018	12:00	48	70	58	50	43	0.0	2.7	5.4	68	23	59	719
8/12/2018	12:15	48	63	55	50	42	0.0	3.1	5.8	68	24	58	719
8/12/2018	12:30	48	66	59	49	41	0.0	2.7	6.7	90	23	60	719
8/12/2018	12:45	46	62	56	48	41	0.0	2.7	6.3	68	24	58	719
8/12/2018	13:00	46	62	54	48	42	0.0	2.2	5.8	68	23	58	719
8/12/2018	13:15	45	64	52	48	41	0.0	2.2	5.8	68	24	57	719
8/12/2018	13:30	50	66	61	52	42	0.0	2.2	6.3	68	23	58	719
8/12/2018	13:45	47	64	54	48	43	0.0	2.7	6.3	68	23	60	719
8/12/2018	14:00	45	59	52	48	42	0.0	2.2	4.9	90	22	62	719
8/12/2018	14:15	45	57	51	48	41	0.0	1.8	6.7	90	23	61	719
8/12/2018	14:30	45	61	53	47	40	0.0	2.2	4.9	90	23	60	719
8/12/2018	14:45	48	71	59	50	40	0.0	2.7	5.4	68	23	59	719
8/12/2018	15:00	47	70	58	48	39	0.0	2.2	5.8	68	23	58	719
8/12/2018	15:15	44	71	52	45	38	0.0	2.2	5.8	68	23	58	718
8/12/2018	15:30	46	67	55	48	40	0.0	2.2	4.9	90	24	54	718
8/12/2018	15:45	46	65	56	47	39	0.0	2.2	4.9	68	23	54	718
8/12/2018	16:00	44	66	53	46	40	0.0	2.2	5.4	68	23	57	719
8/12/2018	16:15	43	59	51	46	39	0.0	2.2	4.9	68	23	56	719
8/12/2018	16:30	46	64	58	49	39	0.0	1.8	4.5	90	24	55	718
8/12/2018	16:45	46	62	57	49	38	0.0	2.2	4.9	90	24	54	718
8/12/2018	17:00	46	70	55	48	40	0.0	2.2	4.9	90	23	55	718
8/12/2018	17:15	45	58	51	47	41	0.0	1.3	4.0	113	24	55	718
8/12/2018	17:30	47	71	56	49	41	0.0	1.8	4.9	113	23	56	719
8/12/2018	17:45	47	72	59	48	40	0.0	2.2	4.9	90	22	59	719
8/12/2018	18:00	48	69	60	49	41	0.0	1.8	4.0	113	22	58	719
8/12/2018	18:15	46	66	56	48	41	0.0	2.2	4.9	90	22	60	719
8/12/2018	18:30	46	66	56	49	39	0.0	1.8	5.4	113	21	62	719
8/12/2018	18:45	51	62	57	54	38	0.0	1.8	4.0	90	21	62	719
8/12/2018	19:00	54	64	57	55	50	0.0	1.3	3.6	90	20	63	720
8/12/2018	19:15	47	54	51	49	44	0.0	1.3	4.0	113	20	65	720
8/12/2018	19:30	41	49	45	43	38	0.0	0.9	2.7	113	20	66	720
8/12/2018	19:45	40	52	47	43	37	0.0	0.9	3.6	113	19	68	720
8/12/2018	20:00	41	61	51	43	37	0.0	0.9	3.1	113	19	69	720
8/12/2018	20:15	40	57	47	41	35	0.0	0.9	2.7	113	19	70	720

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	20:30	40	52	48	43	36	0.0	1.3	2.7	90	18	71	720
8/12/2018	20:45	39	52	46	42	36	0.0	0.9	3.1	90	18	73	720
8/12/2018	21:00	38	51	45	40	35	0.0	0.9	3.1	113	18	74	720
8/12/2018	21:15	39	51	47	42	34	0.0	0.9	2.7	90	18	74	720
8/12/2018	21:30	38	50	45	40	34	0.0	0.4	2.7	113	18	75	720
8/12/2018	21:45	37	60	45	39	33	0.0	0.4	2.2	113	17	76	720
8/12/2018	22:00	38	49	45	41	33	0.0	0.4	1.3	90	17	77	720
8/12/2018	22:15	37	51	47	40	31	0.0	0.4	1.3	113	17	77	720
8/12/2018	22:30	39	61	49	41	29	0.0	0.4	1.8	113	17	78	720
8/12/2018	22:45	43	73	42	38	26	0.0	0.0	1.3	113	16	80	720
8/12/2018	23:00	38	58	46	40	31	0.0	0.0	0.4	113	16	81	720
8/12/2018	23:15	35	54	46	37	28	0.0	0.0	0.9	90	16	81	720
8/12/2018	23:30	34	53	44	34	28	0.0	0.4	1.8	113	16	81	720
8/12/2018	23:45	33	53	40	36	30	0.0	0.0	1.8	90	16	82	719
9/12/2018	0:00	35	53	44	37	29	0.0	0.0	0.9	113	16	83	719
9/12/2018	0:15	31	47	39	34	26	0.0	0.0	1.3	113	15	84	719
9/12/2018	0:30	30	48	38	32	27	0.0	0.0	1.3	113	15	84	719
9/12/2018	0:45	31	42	37	34	28	0.0	0.0	1.3	113	15	85	719
9/12/2018	1:00	33	54	39	34	30	0.0	0.0	0.9	113	15	84	719
9/12/2018	1:15	32	48	41	34	28	0.0	0.0	0.4	113	14	87	719
9/12/2018	1:30	33	51	42	36	26	0.0	0.0	0.9	113	14	87	719
9/12/2018	1:45	30	43	37	32	26	0.0	0.0	1.3	90	14	88	719
9/12/2018	2:00	28	47	35	31	25	0.0	0.0	1.3	113	15	86	718
9/12/2018	2:15	34	49	44	37	27	0.0	0.0	1.3	113	15	86	718
9/12/2018	2:30	32	47	41	35	26	0.0	0.4	1.8	113	15	85	718
9/12/2018	2:45	33	48	43	36	27	0.0	0.4	1.8	113	15	85	718
9/12/2018	3:00	34	49	41	37	29	0.0	0.4	2.2	113	15	85	718
9/12/2018	3:15	32	48	41	35	27	0.0	0.4	1.8	113	14	85	718
9/12/2018	3:30	35	50	46	38	27	0.0	0.0	0.9	113	14	86	718
9/12/2018	3:45	32	50	40	35	28	0.0	0.0	0.9	113	14	86	718
9/12/2018	4:00	37	61	48	38	28	0.0	0.0	0.4	113	14	86	718
9/12/2018	4:15	43	63	58	42	29	0.0	0.4	1.3	113	15	86	718
9/12/2018	4:30	44	67	55	46	34	0.0	0.4	1.8	113	15	86	718
9/12/2018	4:45	57	76	69	61	39	0.0	0.0	1.3	113	15	86	718
9/12/2018	5:00	56	79	69	57	36	0.0	0.4	2.2	113	15	87	718
9/12/2018	5:15	56	78	69	55	37	0.0	0.9	3.1	113	16	85	718
9/12/2018	5:30	53	82	64	52	37	0.0	0.9	3.6	113	16	84	718
9/12/2018	5:45	59	81	73	59	37	0.0	0.9	2.7	113	17	80	718
9/12/2018	6:00	54	79	66	52	37	0.0	1.3	4.0	113	18	77	718
9/12/2018	6:15	56	79	69	58	36	0.0	1.3	4.0	113	19	75	718
9/12/2018	6:30	51	75	64	51	38	0.0	1.8	4.9	90	19	75	718
9/12/2018	6:45	50	75	61	49	42	0.0	1.8	4.5	113	19	75	719
9/12/2018	7:00	55	74	66	58	42	0.0	2.2	5.8	113	20	72	719
9/12/2018	7:15	51	73	62	52	43	0.0	2.2	5.4	90	21	71	719
9/12/2018	7:30	52	73	65	53	39	0.0	2.2	5.4	113	21	70	719
9/12/2018	7:45	47	70	60	47	40	0.0	2.2	5.4	90	22	67	719
9/12/2018	8:00	47	69	56	48	41	0.0	2.2	5.8	90	22	66	719
9/12/2018	8:15	48	68	59	50	42	0.0	2.7	5.8	90	23	64	719
9/12/2018	8:30	49	71	61	49	40	0.0	2.7	7.2	90	23	62	719
9/12/2018	8:45	50	76	61	51	41	0.0	2.7	5.8	113	23	62	719
9/12/2018	9:00	49	70	62	50	42	0.0	2.2	5.8	90	24	58	719
9/12/2018	9:15	48	67	57	50	41	0.0	2.2	5.4	90	24	58	719
9/12/2018	9:30	50	73	61	50	41	0.0	2.7	6.3	90	25	55	719
9/12/2018	9:45	50	67	59	53	42	0.0	3.1	6.7	45	25	55	719
9/12/2018	10:00	47	75	52	48	41	0.0	2.2	5.4	90	25	54	719
9/12/2018	10:15	45	65	55	47	40	0.0	2.7	6.3	90	25	54	718
9/12/2018	10:30	46	62	57	48	39	0.0	2.7	5.4	68	26	53	718
9/12/2018	10:45	45	63	53	48	39	0.0	2.2	6.3	90	26	51	718
9/12/2018	11:00	46	66	55	49	40	0.0	2.2	5.4	90	26	51	718
9/12/2018	11:15	46	60	54	50	37	0.0	2.7	5.8	68	27	51	718
9/12/2018	11:30	48	67	60	48	39	0.0	2.2	5.8	68	26	51	718
9/12/2018	11:45	48	65	57	52	37	0.0	2.2	6.3	68	27	51	718
9/12/2018	12:00	46	72	57	46	40	0.0	2.2	5.8	90	26	52	718
9/12/2018	12:15	45	63	53	47	40	0.0	1.8	4.9	68	27	50	718
9/12/2018	12:30	46	73	57	48	39	0.0	2.7	6.7	45	27	51	718
9/12/2018	12:45	43	62	52	45	38	0.0	2.2	5.4	68	28	50	718
9/12/2018	13:00	42	57	50	45	36	0.0	2.2	4.9	45	27	48	717
9/12/2018	13:15	41	52	47	44	36	0.0	1.8	4.9	68	28	47	717
9/12/2018	13:30	43	67	50	45	37	0.0	1.8	5.8	68	28	45	717
9/12/2018	13:45	45	70	52	44	37	0.0	1.8	5.4	90	28	46	717

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	14:00	42	59	49	44	37	0.0	1.8	5.8	90	27	47	717
9/12/2018	14:15	41	66	49	44	34	0.0	1.8	4.9	90	28	46	717
9/12/2018	14:30	43	62	53	45	36	0.0	1.8	4.9	90	28	43	717
9/12/2018	14:45	45	73	54	47	38	0.0	1.8	4.0	90	29	43	717
9/12/2018	15:00	42	66	52	44	37	0.0	2.2	7.2	68	28	44	717
9/12/2018	15:15	42	68	50	43	36	0.0	1.3	4.9	90	29	41	717
9/12/2018	15:30	53	77	66	50	39	0.0	1.8	4.9	113	29	42	716
9/12/2018	15:45	45	64	53	47	39	0.0	2.2	4.9	68	28	42	716
9/12/2018	16:00	52	69	62	57	41	0.0	2.2	6.3	68	28	42	716
9/12/2018	16:15	50	72	59	51	43	0.0	2.2	5.8	68	28	44	716
9/12/2018	16:30	51	71	61	55	40	0.0	2.2	5.4	90	28	43	716
9/12/2018	16:45	48	74	55	50	42	0.0	2.7	5.8	68	27	45	716
9/12/2018	17:00	47	69	55	48	42	0.0	2.2	5.4	90	27	45	716
9/12/2018	17:15	47	68	55	48	42	0.0	2.2	5.8	68	26	47	716
9/12/2018	17:30	44	60	52	46	40	0.0	2.2	5.4	68	26	48	716
9/12/2018	17:45	48	73	59	49	40	0.0	2.2	5.4	68	26	51	716
9/12/2018	18:00	45	72	51	47	41	0.0	2.7	5.4	45	25	54	716
9/12/2018	18:15	46	68	54	47	42	0.0	2.2	5.8	68	24	56	717
9/12/2018	18:30	45	65	52	47	40	0.0	2.2	5.4	68	23	59	717
9/12/2018	18:45	52	65	59	55	42	0.0	2.7	6.7	68	23	62	717
9/12/2018	19:00	53	61	56	55	50	0.0	2.2	4.9	68	22	64	717
9/12/2018	19:15	48	69	54	50	43	0.0	2.2	6.3	68	22	64	717
9/12/2018	19:30	43	62	50	45	40	0.0	2.2	4.5	68	22	65	717
9/12/2018	19:45	43	58	50	46	40	0.0	1.8	4.9	68	21	66	717
9/12/2018	20:00	44	62	51	47	41	0.0	1.8	4.5	68	21	68	717
9/12/2018	20:15	47	75	56	48	41	0.0	1.8	5.8	68	21	70	717
9/12/2018	20:30	43	55	50	45	41	0.0	2.2	5.4	68	21	70	717
9/12/2018	20:45	42	52	47	44	40	0.0	1.8	5.4	68	20	71	717
9/12/2018	21:00	41	59	44	43	38	0.0	2.2	4.9	68	20	72	717
9/12/2018	21:15	41	51	46	43	38	0.0	1.8	4.5	68	20	73	718
9/12/2018	21:30	41	52	46	43	38	0.0	1.8	4.9	68	20	75	718
9/12/2018	21:45	39	59	46	40	34	0.0	1.8	4.9	68	19	75	718
9/12/2018	22:00	37	45	41	38	35	0.0	1.3	4.0	90	19	76	718
9/12/2018	22:15	36	50	40	38	35	0.0	1.3	3.6	90	19	77	718
9/12/2018	22:30	37	50	41	38	35	0.0	1.8	4.0	90	19	78	718
9/12/2018	22:45	37	48	41	38	35	0.0	1.3	4.0	90	18	80	718
9/12/2018	23:00	38	60	44	38	34	0.0	1.8	4.9	68	18	80	718
9/12/2018	23:15	36	50	43	38	32	0.0	1.8	4.9	68	18	81	718
9/12/2018	23:30	35	53	41	36	33	0.0	1.3	2.7	90	18	83	718
9/12/2018	23:45	40	61	49	41	29	0.0	1.3	4.0	90	18	84	718
10/12/2018	0:00	34	50	44	36	28	0.0	1.3	3.1	90	17	85	718
10/12/2018	0:15	36	52	43	38	33	0.0	0.4	2.2	90	17	86	718
10/12/2018	0:30	34	45	38	35	32	0.0	0.4	2.7	90	17	86	717
10/12/2018	0:45	33	45	39	34	31	0.0	0.4	2.2	113	17	86	717
10/12/2018	1:00	35	47	42	38	32	0.0	0.0	1.3	90	17	86	717
10/12/2018	1:15	34	47	40	37	32	0.0	0.4	2.7	90	17	87	717
10/12/2018	1:30	32	47	42	36	25	0.0	0.4	2.2	90	17	88	717
10/12/2018	1:45	31	43	38	33	25	0.0	0.4	1.8	90	17	88	717
10/12/2018	2:00	31	45	39	33	24	0.0	0.4	2.2	90	17	89	717
10/12/2018	2:15	27	40	35	28	24	0.0	0.0	1.8	90	17	89	717
10/12/2018	2:30	29	55	38	30	24	0.0	0.0	1.3	113	17	90	716
10/12/2018	2:45	31	43	40	35	24	0.0	0.0	1.8	90	16	89	717
10/12/2018	3:00	29	50	38	32	24	0.0	0.0	1.3	113	16	90	716
10/12/2018	3:15	31	44	39	35	26	0.0	0.0	1.3	113	16	91	716
10/12/2018	3:30	35	52	46	37	27	0.0	0.0	0.9	113	17	90	716
10/12/2018	3:45	35	56	42	37	27	0.0	0.0	0.9	113	17	90	716
10/12/2018	4:00	38	60	50	38	27	0.0	0.0	0.9	113	17	90	716
10/12/2018	4:15	40	61	51	40	30	0.0	0.0	1.3	113	17	90	716
10/12/2018	4:30	46	75	57	47	34	0.0	0.0	0.4	113	17	89	717
10/12/2018	4:45	55	75	68	56	41	0.0	0.0	0.9	113	17	88	717
10/12/2018	5:00	56	77	67	59	40	0.0	0.0	0.4	113	17	88	717
10/12/2018	5:15	57	77	70	61	37	0.0	0.0	0.4	113	17	88	717
10/12/2018	5:30	56	76	68	60	38	0.0	0.0	0.0	0	18	88	717
10/12/2018	5:45	49	72	60	52	36	0.0	0.0	1.3	113	18	85	717
10/12/2018	6:00	52	75	65	53	37	0.0	0.4	2.2	113	19	84	717
10/12/2018	6:15	56	81	68	56	38	0.0	0.4	2.2	113	20	81	717
10/12/2018	6:30	52	75	65	52	37	0.0	0.9	2.7	90	20	79	717
10/12/2018	6:45	50	70	60	53	40	0.0	0.9	4.0	113	20	79	717
10/12/2018	7:00	46	69	56	48	40	0.0	1.3	4.5	90	20	77	717
10/12/2018	7:15	46	73	57	47	37	0.0	1.3	3.6	90	21	74	718

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018 7:30	48	73	60	49	38	0.0	1.8	3.6	68	22	72	718
10/12/2018 7:45	45	65	55	47	40	0.0	1.3	4.0	90	21	71	718
10/12/2018 8:00	49	70	61	52	38	0.0	1.3	4.9	90	23	65	718
10/12/2018 8:15	48	70	60	49	39	0.0	1.8	4.9	68	23	67	718
10/12/2018 8:30	45	63	57	48	39	0.0	1.8	4.0	90	23	67	718
10/12/2018 8:45	47	69	58	49	39	0.0	1.3	4.0	90	24	61	718
10/12/2018 9:00	46	70	55	46	39	0.0	1.8	4.5	90	24	60	718
10/12/2018 9:15	43	60	52	45	38	0.0	1.8	4.5	90	24	60	717
10/12/2018 9:30	45	65	54	46	38	0.0	1.3	4.5	90	25	59	717
10/12/2018 9:45	48	70	60	50	38	0.0	1.3	4.5	90	25	57	717
10/12/2018 10:00	43	54	50	46	38	0.0	1.3	4.0	90	25	57	717
10/12/2018 10:15	48	78	54	47	39	0.0	1.3	4.0	90	27	51	717
10/12/2018 10:30	42	60	53	43	36	0.0	1.8	4.9	113	26	52	717
10/12/2018 10:45	43	64	54	45	37	0.0	0.9	4.0	90	26	51	717
10/12/2018 11:00	44	58	54	47	37	0.0	0.9	4.0	90	27	49	717
10/12/2018 11:15	42	66	51	44	37	0.0	1.3	4.0	113	28	47	717
10/12/2018 11:30	42	64	49	44	35	0.0	1.3	4.0	113	28	47	717
10/12/2018 11:45	41	61	52	43	35	0.0	1.3	4.9	113	29	44	717
10/12/2018 12:00	44	68	55	44	35	0.0	1.3	3.6	113	29	44	717
10/12/2018 12:15	42	63	50	44	35	0.0	1.3	4.5	113	29	43	717
10/12/2018 12:30	42	60	53	45	35	0.0	1.3	4.0	90	29	44	717
10/12/2018 12:45	45	65	56	46	35	0.0	1.3	4.5	113	30	39	717
10/12/2018 13:00	40	55	48	42	35	0.0	1.3	4.5	113	30	41	716
10/12/2018 13:15	41	57	53	43	35	0.0	1.3	4.0	113	30	41	716
10/12/2018 13:30	44	62	56	46	37	0.0	0.9	3.6	113	30	39	716
10/12/2018 13:45	42	63	51	44	36	0.0	1.3	4.0	90	30	40	716
10/12/2018 14:00	47	72	54	49	39	0.0	0.9	3.1	90	31	39	716
10/12/2018 14:15	47	63	59	50	37	0.0	1.3	5.4	113	30	40	716
10/12/2018 14:30	45	61	56	47	39	0.0	1.3	3.6	90	30	41	715
10/12/2018 14:45	48	68	59	51	39	0.0	1.8	4.9	68	30	39	715
10/12/2018 15:00	44	58	53	46	39	0.0	1.3	5.4	90	31	39	715
10/12/2018 15:15	46	69	56	46	39	0.0	1.8	4.9	68	30	40	715
10/12/2018 15:30	44	61	52	45	39	0.0	1.3	3.6	90	31	39	715
10/12/2018 15:45	44	66	51	46	39	0.0	1.8	4.9	90	30	41	715
10/12/2018 16:00	42	56	50	45	39	0.0	2.2	5.4	68	30	41	715
10/12/2018 16:15	43	57	50	45	40	0.0	1.8	4.0	90	29	41	715
10/12/2018 16:30	46	67	56	46	40	0.0	2.2	4.5	68	29	42	715
10/12/2018 16:45	44	65	51	46	38	0.0	1.8	5.8	90	29	43	715
10/12/2018 17:00	44	73	49	46	40	0.0	1.8	5.4	68	29	43	715
10/12/2018 17:15	47	63	56	48	42	0.0	2.2	5.8	68	28	43	715
10/12/2018 17:30	47	70	55	48	40	0.0	2.2	4.5	68	28	43	715
10/12/2018 17:45	45	62	53	47	40	0.0	1.8	4.5	68	28	44	715
10/12/2018 18:00	49	72	61	50	39	0.0	1.8	4.5	68	27	45	715
10/12/2018 18:15	45	65	55	47	40	0.0	1.8	3.6	68	27	45	715
10/12/2018 18:30	46	69	55	47	38	0.0	1.3	3.1	90	26	47	715
10/12/2018 18:45	44	61	54	47	38	0.0	0.9	2.7	90	26	49	715
10/12/2018 19:00	52	72	56	53	49	0.0	1.3	3.1	90	25	50	716
10/12/2018 19:15	52	61	56	53	50	0.0	0.9	4.0	90	25	53	716
10/12/2018 19:30	49	62	55	51	45	0.0	1.8	3.6	90	25	54	716
10/12/2018 19:45	46	61	54	49	41	0.0	1.8	4.9	68	24	57	716
10/12/2018 20:00	47	61	54	50	40	0.0	1.8	4.5	68	24	59	716
10/12/2018 20:15	43	57	51	45	40	0.0	2.2	5.4	68	23	61	716
10/12/2018 20:30	43	56	50	44	39	0.0	2.2	6.3	68	23	64	716
10/12/2018 20:45	41	49	45	43	38	0.0	2.2	4.9	68	23	66	716
10/12/2018 21:00	41	52	46	42	39	0.0	2.2	4.9	68	22	68	716
10/12/2018 21:15	40	50	46	42	38	0.0	2.2	4.9	68	22	69	716
10/12/2018 21:30	39	51	44	41	37	0.0	2.2	4.9	68	21	70	716
10/12/2018 21:45	39	58	47	41	36	0.0	2.2	5.8	68	21	71	717
10/12/2018 22:00	38	51	43	40	36	0.0	1.8	4.5	68	21	72	717
10/12/2018 22:15	40	70	44	40	36	0.0	1.8	4.5	68	20	73	717
10/12/2018 22:30	38	49	43	40	35	0.0	1.3	4.0	90	20	75	717
10/12/2018 22:45	37	49	43	39	35	0.0	1.3	4.0	90	20	76	717
10/12/2018 23:00	37	53	43	39	34	0.0	1.8	4.0	90	20	77	717
10/12/2018 23:15	38	53	50	40	33	0.0	0.9	3.6	90	19	78	717
10/12/2018 23:30	36	47	42	38	33	0.0	0.0	1.8	90	19	80	717
10/12/2018 23:45	36	45	41	37	33	0.0	0.4	2.2	90	19	80	717
11/12/2018 0:00	36	53	44	38	33	0.0	0.4	2.2	90	18	81	717
11/12/2018 0:15	38	54	46	40	33	0.0	0.4	2.2	90	18	82	717
11/12/2018 0:30	35	50	44	37	30	0.0	0.9	2.7	90	18	83	716
11/12/2018 0:45	33	46	41	36	30	0.0	0.9	3.1	90	18	85	716

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Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018 1:00	36	50	44	39	31	0.0	0.9	2.7	90	18	86	716
11/12/2018 1:15	36	55	46	39	29	0.0	0.9	2.7	90	17	86	716
11/12/2018 1:30	37	62	47	38	30	0.0	0.4	2.2	90	17	87	716
11/12/2018 1:45	33	48	42	36	28	0.0	0.9	2.2	90	17	88	716
11/12/2018 2:00	32	45	40	34	28	0.0	0.9	1.8	90	17	88	716
11/12/2018 2:15	32	46	40	35	27	0.0	0.9	2.2	90	17	89	716
11/12/2018 2:30	30	45	38	32	26	0.0	0.4	3.1	90	17	89	716
11/12/2018 2:45	33	45	41	36	26	0.0	0.4	1.8	90	17	89	716
11/12/2018 3:00	33	50	44	38	25	0.0	0.4	1.8	90	17	90	716
11/12/2018 3:15	34	49	45	38	25	0.0	0.0	1.8	90	17	90	716
11/12/2018 3:30	36	54	46	39	26	0.0	0.0	0.9	113	16	91	716
11/12/2018 3:45	34	50	43	38	27	0.0	0.0	0.4	113	16	91	716
11/12/2018 4:00	38	59	46	41	29	0.0	0.0	0.9	113	16	92	716
11/12/2018 4:15	40	60	49	43	31	0.0	0.0	1.3	113	16	92	716
11/12/2018 4:30	47	68	58	49	37	0.0	0.0	0.4	113	15	92	716
11/12/2018 4:45	56	78	69	57	40	0.0	0.0	0.4	113	15	93	716
11/12/2018 5:00	55	77	67	57	40	0.0	0.0	0.4	113	15	93	716
11/12/2018 5:15	56	85	66	56	41	0.0	0.0	0.4	113	15	93	716
11/12/2018 5:30	56	76	68	59	41	0.0	0.0	0.4	113	15	93	717
11/12/2018 5:45	53	76	65	55	42	0.0	0.0	0.9	90	17	89	717
11/12/2018 6:00	60	78	73	64	40	0.0	0.4	1.8	90	19	83	717
11/12/2018 6:15	53	74	66	53	39	0.0	0.9	2.2	90	20	80	717
11/12/2018 6:30	50	78	62	50	37	0.0	0.9	2.7	90	20	77	717
11/12/2018 6:45	55	79	67	52	38	0.0	1.3	3.1	90	21	74	717
11/12/2018 7:00	50	72	63	49	37	0.0	1.3	3.1	90	22	72	717
11/12/2018 7:15	45	64	57	47	36	0.0	1.3	3.6	90	22	69	717
11/12/2018 7:30	45	61	56	47	37	0.0	1.3	4.0	90	22	68	717
11/12/2018 7:45	43	60	53	46	37	0.0	1.3	3.1	90	23	64	717
11/12/2018 8:00	46	69	56	46	37	0.0	0.9	3.6	90	23	64	717
11/12/2018 8:15	48	69	59	52	38	0.0	0.9	3.1	90	24	61	718
11/12/2018 8:30	47	65	56	51	38	0.0	0.9	3.1	90	25	59	718
11/12/2018 8:45	45	69	54	45	38	0.0	0.4	2.7	90	26	57	717
11/12/2018 9:00	47	62	54	49	42	0.0	1.3	4.0	113	25	55	718
11/12/2018 9:15	44	63	55	47	36	0.0	1.3	3.6	90	25	56	717
11/12/2018 9:30	42	60	52	45	37	0.0	1.3	4.0	90	26	55	717
11/12/2018 9:45	46	69	55	46	37	0.0	1.3	5.8	90	27	51	717
11/12/2018 10:00	43	64	54	46	37	0.0	1.3	5.8	113	27	50	718
11/12/2018 10:15	47	66	59	49	36	0.0	1.3	4.0	90	27	51	717
11/12/2018 10:30	44	64	55	46	38	0.0	1.3	4.5	90	28	47	717
11/12/2018 10:45	48	66	58	51	39	0.0	1.3	4.0	68	28	47	717
11/12/2018 11:00	45	67	56	47	38	0.0	1.8	4.5	90	28	47	717
11/12/2018 11:15	46	63	56	47	40	0.0	1.3	5.4	90	29	45	717
11/12/2018 11:30	52	79	61	48	38	0.0	1.3	3.6	90	29	42	717
11/12/2018 11:45	46	60	54	50	39	0.0	1.3	4.0	90	29	42	717
11/12/2018 12:00	44	67	53	46	37	0.0	1.8	4.9	90	29	44	717
11/12/2018 12:15	43	60	51	45	36	0.0	1.3	4.5	90	29	43	717
11/12/2018 12:30	48	72	57	51	38	0.0	1.3	4.9	90	30	42	717
11/12/2018 12:45	44	59	54	48	37	0.0	1.8	4.5	90	30	40	716
11/12/2018 13:00	55	74	69	53	37	0.0	1.3	4.9	90	30	40	716
11/12/2018 13:15	46	72	55	44	38	0.0	1.8	5.4	90	30	41	716
11/12/2018 13:30	41	57	49	44	37	0.0	1.3	4.9	113	30	40	716
11/12/2018 13:45	41	61	47	44	38	0.0	2.2	5.8	68	30	40	716
11/12/2018 14:00	49	70	62	47	37	0.0	1.8	4.9	90	31	39	716
11/12/2018 14:15	44	60	53	47	39	0.0	1.8	5.4	90	31	40	716
11/12/2018 14:30	42	57	50	45	39	0.0	2.2	6.3	90	30	40	715
11/12/2018 14:45	43	59	51	45	39	0.0	1.8	4.9	90	30	41	715
11/12/2018 15:00	45	64	56	46	40	0.0	1.8	5.4	113	30	39	715
11/12/2018 15:15	46	63	55	49	41	0.0	1.8	4.5	90	30	40	715
11/12/2018 15:30	44	60	53	47	39	0.0	2.2	6.7	90	29	40	715
11/12/2018 15:45	44	58	52	47	40	0.0	2.2	5.4	68	29	40	715
11/12/2018 16:00	44	62	53	46	40	0.0	2.2	4.9	68	30	40	715
11/12/2018 16:15	47	72	56	46	40	0.0	1.8	5.4	90	30	40	714
11/12/2018 16:30	44	67	50	46	40	0.0	2.2	5.8	90	29	40	714
11/12/2018 16:45	45	66	55	46	40	0.0	2.2	4.9	68	29	41	715
11/12/2018 17:00	45	61	52	47	41	0.0	2.2	5.8	68	29	42	715
11/12/2018 17:15	47	74	52	46	41	0.0	2.2	4.9	68	29	42	715
11/12/2018 17:30	52	79	60	49	42	0.0	2.2	6.3	68	28	44	715
11/12/2018 17:45	48	70	57	49	43	0.0	2.2	5.8	45	27	46	715
11/12/2018 18:00	50	73	62	50	42	0.0	2.2	6.3	45	27	48	715
11/12/2018 18:15	47	63	57	48	42	0.0	2.2	6.3	68	26	50	715

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	18:30	44	65	51	46	40	0.0	2.7	5.4	45	26	53	715
11/12/2018	18:45	47	63	59	48	41	0.0	2.7	5.8	68	25	56	715
11/12/2018	19:00	52	63	56	53	44	0.0	2.7	7.2	45	25	57	715
11/12/2018	19:15	51	60	53	52	48	0.0	2.7	5.8	68	24	59	715
11/12/2018	19:30	46	55	50	48	42	0.0	2.7	6.3	45	24	60	716
11/12/2018	19:45	43	55	48	46	40	0.0	2.7	6.7	68	23	62	716
11/12/2018	20:00	42	60	46	44	40	0.0	2.7	6.3	45	23	64	716
11/12/2018	20:15	44	60	48	45	41	0.0	2.7	6.3	68	23	65	717
11/12/2018	20:30	44	54	48	46	42	0.0	2.7	7.2	68	22	66	717
11/12/2018	20:45	43	52	48	45	41	0.0	2.7	5.8	45	22	68	717
11/12/2018	21:00	43	56	48	45	40	0.0	2.2	4.5	45	21	70	716
11/12/2018	21:15	44	56	47	46	41	0.0	2.7	6.7	45	21	71	717
11/12/2018	21:30	43	56	46	45	39	0.0	2.7	6.3	45	21	73	717
11/12/2018	21:45	41	58	48	43	37	0.0	2.2	5.4	68	21	75	717
11/12/2018	22:00	39	48	43	41	37	0.0	1.8	4.5	68	20	76	717
11/12/2018	22:15	38	52	44	40	36	0.0	1.8	5.8	68	20	77	717
11/12/2018	22:30	39	58	46	41	36	0.0	2.2	5.8	68	20	78	717
11/12/2018	22:45	36	45	41	38	34	0.0	1.8	4.5	68	20	78	717
11/12/2018	23:00	37	48	41	39	35	0.0	1.3	3.6	68	20	79	717
11/12/2018	23:15	37	44	41	39	35	0.0	1.8	4.0	68	19	80	717
11/12/2018	23:30	38	53	43	40	36	0.0	1.3	4.0	68	19	81	717
11/12/2018	23:45	38	46	43	40	35	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:00	37	48	42	39	35	0.0	1.8	4.0	68	19	81	716
12/12/2018	0:15	37	47	41	39	34	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:30	37	49	42	38	35	0.0	0.9	3.1	90	19	81	716
12/12/2018	0:45	37	47	42	38	34	0.0	0.9	3.1	90	19	82	716
12/12/2018	1:00	36	45	40	37	34	0.0	0.9	3.6	90	19	83	716
12/12/2018	1:15	38	49	45	40	35	0.0	0.9	2.2	90	18	84	716
12/12/2018	1:30	37	55	44	39	32	0.0	1.3	4.0	90	18	83	716
12/12/2018	1:45	37	49	42	39	34	0.0	1.8	4.0	90	18	83	715
12/12/2018	2:00	37	51	42	38	34	0.0	1.8	4.5	90	18	83	715
12/12/2018	2:15	36	52	42	38	34	0.0	1.8	4.0	68	18	84	715
12/12/2018	2:30	37	49	45	39	34	0.0	1.8	4.9	68	18	84	715
12/12/2018	2:45	37	46	42	39	34	0.0	1.8	4.0	68	18	85	715
12/12/2018	3:00	34	47	42	37	28	0.0	1.3	4.0	90	18	86	715
12/12/2018	3:15	34	48	43	37	27	0.0	0.4	2.2	113	18	87	715
12/12/2018	3:30	36	50	46	39	28	0.0	0.0	1.3	113	18	87	715
12/12/2018	3:45	37	48	44	40	31	0.0	0.4	1.8	90	17	87	715
12/12/2018	4:00	35	52	44	37	29	0.0	0.9	3.1	90	18	85	715
12/12/2018	4:15	44	63	57	45	32	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:30	46	68	58	46	35	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:45	58	79	70	61	41	0.0	0.0	1.3	90	17	86	715
12/12/2018	5:00	60	83	71	63	39	0.0	0.4	1.8	90	17	86	715
12/12/2018	5:15	51	69	64	53	39	0.0	0.4	2.7	90	17	86	715
12/12/2018	5:30	52	74	65	54	40	0.0	0.4	1.8	113	18	86	715
12/12/2018	5:45	54	72	67	56	39	0.0	0.9	4.5	90	19	83	715
12/12/2018	6:00	51	78	62	52	39	0.0	1.8	3.6	68	19	80	715
12/12/2018	6:15	55	80	67	55	41	0.0	1.8	4.5	68	20	79	715
12/12/2018	6:30	47	73	58	47	37	0.0	1.8	4.5	68	20	78	715
12/12/2018	6:45	46	68	58	48	39	0.0	1.3	4.5	90	20	76	716
12/12/2018	7:00	44	65	54	45	37	0.0	1.8	4.0	68	21	73	716
12/12/2018	7:15	46	69	57	47	37	0.0	1.3	4.0	90	22	70	716
12/12/2018	7:30	47	67	60	48	39	0.0	1.3	4.5	90	22	67	716
12/12/2018	7:45	44	64	55	46	38	0.0	1.3	4.0	90	23	65	716
12/12/2018	8:00	47	73	56	47	40	0.0	1.3	3.1	90	23	64	716
12/12/2018	8:15	47	65	57	50	40	0.0	1.3	3.1	90	24	60	716
12/12/2018	8:30	51	73	61	53	42	0.0	1.3	4.5	90	24	61	716
12/12/2018	8:45	48	66	56	50	42	0.0	1.8	4.0	68	25	57	716
12/12/2018	9:00	46	64	56	48	41	0.0	1.8	4.9	90	25	55	716
12/12/2018	9:15	46	66	56	48	40	0.0	1.8	5.4	90	25	54	716
12/12/2018	9:30	54	73	67	56	39	0.0	1.8	4.9	90	26	52	716
12/12/2018	9:45	44	59	53	46	38	0.0	1.8	4.9	90	26	53	716
12/12/2018	10:00	46	68	55	47	36	0.0	1.3	4.5	90	27	52	716
12/12/2018	10:15	48	64	59	51	36	0.0	1.8	4.0	90	27	48	716
12/12/2018	10:30	48	69	54	50	41	0.0	1.3	5.4	113	27	48	716
12/12/2018	10:45	49	62	57	52	43	0.0	1.3	4.5	90	28	47	716
12/12/2018	11:00	45	68	53	49	36	0.0	1.3	4.5	90	28	46	715
12/12/2018	11:15	42	64	50	43	36	0.0	1.3	3.1	90	29	43	715
12/12/2018	11:30	43	63	53	45	37	0.0	1.3	4.5	90	29	44	715
12/12/2018	11:45	44	61	55	46	37	0.0	1.8	4.0	90	30	41	715

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018	12:00	43	62	55	45	35	0.0	1.3	4.5	90	30	41	715
12/12/2018	12:15	44	68	56	44	36	0.0	0.9	4.5	90	31	40	715
12/12/2018	12:30	47	74	51	43	36	0.0	1.8	4.5	90	31	40	714
12/12/2018	12:45	42	61	50	44	36	0.0	1.3	4.0	90	31	40	714
12/12/2018	13:00	41	57	50	42	35	0.0	1.3	4.9	113	31	39	714
12/12/2018	13:15	49	74	61	44	37	0.0	1.3	4.0	90	32	38	714
12/12/2018	13:30	42	59	51	44	36	0.0	1.3	4.5	90	32	38	714
12/12/2018	13:45	41	53	50	44	36	0.0	1.3	3.6	113	32	39	714
12/12/2018	14:00	43	55	51	46	40	0.0	1.8	4.5	90	32	40	713
12/12/2018	14:15	45	65	53	47	38	0.0	1.8	4.9	90	32	38	713
12/12/2018	14:30	44	65	53	45	38	0.0	1.8	4.9	90	31	39	713
12/12/2018	14:45	41	60	52	43	36	0.0	1.8	5.4	113	31	39	713
12/12/2018	15:00	43	61	53	46	38	0.0	1.8	4.5	90	32	39	713
12/12/2018	15:15	44	62	54	46	38	0.0	1.3	3.6	90	32	38	713
12/12/2018	15:30	43	64	51	46	37	0.0	1.3	5.4	90	32	39	713
12/12/2018	15:45	52	66	60	55	44	0.0	1.3	3.6	113	31	39	713
12/12/2018	16:00	48	70	61	48	38	0.0	1.3	4.0	90	31	40	713
12/12/2018	16:15	44	67	53	45	39	0.0	1.3	4.0	90	30	41	712
12/12/2018	16:30	43	62	50	45	38	0.0	1.8	4.5	90	30	42	712
12/12/2018	16:45	50	68	63	50	39	0.0	1.8	3.6	90	30	43	712
12/12/2018	17:00	44	61	53	46	39	0.0	1.3	4.9	90	29	43	712
12/12/2018	17:15	44	57	50	46	40	0.0	1.8	4.9	68	29	44	712
12/12/2018	17:30	48	70	58	50	42	0.0	2.7	5.4	68	29	45	712
12/12/2018	17:45	47	64	54	50	42	0.0	2.2	5.8	68	28	46	713
12/12/2018	18:00	47	70	57	48	42	0.0	2.7	5.4	68	28	47	713
12/12/2018	18:15	46	62	54	48	42	0.0	2.7	6.3	68	27	48	713
12/12/2018	18:30	48	67	56	50	43	0.0	2.7	5.8	45	26	51	713
12/12/2018	18:45	49	70	60	50	43	0.0	3.1	7.2	68	26	53	713
12/12/2018	19:00	55	71	64	56	47	0.0	3.1	7.2	45	25	55	713
12/12/2018	19:15	54	59	56	56	50	0.0	3.1	6.7	45	25	57	713
12/12/2018	19:30	47	60	52	49	44	0.0	3.1	7.2	45	24	59	713
12/12/2018	19:45	46	61	52	47	43	0.0	3.1	6.7	45	24	62	713
12/12/2018	20:00	46	56	51	48	43	0.0	3.6	7.2	45	23	63	713
12/12/2018	20:15	46	55	51	49	42	0.0	3.1	6.3	45	23	65	713
12/12/2018	20:30	43	56	49	45	40	0.0	2.2	6.3	45	23	66	713
12/12/2018	20:45	43	56	47	45	41	0.0	2.7	5.8	68	22	67	713
12/12/2018	21:00	43	56	48	45	41	0.0	2.7	5.8	68	22	69	714
12/12/2018	21:15	43	62	49	46	39	0.0	2.7	6.7	45	22	70	713
12/12/2018	21:30	44	63	50	46	39	0.0	2.7	6.3	45	21	72	714
12/12/2018	21:45	43	63	50	45	39	0.0	2.2	5.8	68	21	73	714
12/12/2018	22:00	40	55	43	41	38	0.0	2.2	5.4	68	21	75	714
12/12/2018	22:15	42	51	46	44	38	0.0	2.2	5.8	68	21	76	714
12/12/2018	22:30	40	50	45	43	37	0.0	2.2	6.3	68	21	77	714
12/12/2018	22:45	37	45	44	40	34	0.0	2.2	5.8	68	21	77	714
12/12/2018	23:00	38	46	44	41	35	0.0	1.8	4.9	90	20	77	714
12/12/2018	23:15	40	54	46	42	37	0.0	1.8	4.9	90	20	78	714
12/12/2018	23:30	39	50	44	41	36	0.0	1.3	2.7	90	20	79	714
12/12/2018	23:45	39	49	44	41	36	0.0	1.8	4.5	90	20	82	713
13/12/2018	0:00	39	51	44	42	36	0.0	1.3	3.6	68	20	82	713
13/12/2018	0:15	38	50	44	40	36	0.0	1.3	4.0	68	20	81	713
13/12/2018	0:30	37	52	44	39	34	0.0	0.9	2.7	90	20	81	713
13/12/2018	0:45	39	58	47	41	34	0.0	0.9	3.1	90	19	82	713
13/12/2018	1:00	37	53	42	39	35	0.0	0.9	2.7	90	19	82	713
13/12/2018	1:15	39	54	47	41	36	0.0	1.3	6.3	68	19	83	713
13/12/2018	1:30	39	51	45	41	35	0.0	1.3	4.5	90	19	84	712
13/12/2018	1:45	37	50	44	40	34	0.0	0.9	2.2	90	19	84	713
13/12/2018	2:00	37	50	44	39	35	0.0	0.4	2.7	90	19	84	712
13/12/2018	2:15	37	47	42	40	33	0.0	0.4	1.8	158	19	84	712
13/12/2018	2:30	42	56	47	44	39	0.0	0.9	4.5	90	19	84	711
13/12/2018	2:45	40	54	47	43	35	0.0	2.2	6.3	45	19	84	711
13/12/2018	3:00	34	46	40	37	29	0.0	1.8	5.4	68	19	85	712
13/12/2018	3:15	34	45	41	37	29	0.0	0.0	0.9	158	19	85	712
13/12/2018	3:30	36	53	44	39	29	0.0	0.0	1.3	90	19	86	712
13/12/2018	3:45	37	52	45	40	30	0.0	0.0	0.9	90	19	86	712
13/12/2018	4:00	39	62	51	40	29	0.0	0.0	0.9	90	18	86	712
13/12/2018	4:15	42	62	53	44	32	0.0	0.0	0.4	113	18	86	712
13/12/2018	4:30	51	79	62	48	35	0.0	0.0	0.9	90	18	86	712
13/12/2018	4:45	63	83	74	68	42	0.0	0.0	0.9	90	18	86	712
13/12/2018	5:00	57	76	69	60	39	0.0	0.0	0.4	113	18	87	713
13/12/2018	5:15	53	74	66	55	38	0.0	0.0	0.0	0	18	88	713

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
13/12/2018	5:30	55	74	67	58	37	0.0	0.0	0.0	0	18	88	713
13/12/2018	5:45	58	80	71	60	39	0.0	0.0	0.4	113	18	87	713
13/12/2018	6:00	53	74	66	53	38	0.0	0.0	0.9	113	19	85	713
13/12/2018	6:15	47	69	58	48	39	0.0	0.9	3.1	0	21	77	713
13/12/2018	6:30	46	65	54	48	39	0.0	1.3	3.6	0	22	75	713
13/12/2018	6:45	46	66	58	49	38	0.0	1.3	2.2	90	22	73	713
13/12/2018	7:00	45	66	56	47	38	0.0	0.9	2.2	158	22	74	713
13/12/2018	7:15	49	70	61	52	38	0.0	0.9	2.2	113	22	73	713
13/12/2018	7:30	49	68	62	51	37	0.0	0.4	2.7	90	22	72	713
13/12/2018	7:45	50	70	64	51	36	0.0	0.4	1.3	90	22	71	713
13/12/2018	8:00	53	86	62	52	38	0.0	0.4	1.8	158	22	70	713
13/12/2018	8:15	49	70	61	51	37	0.0	0.4	1.8	90	23	69	713
13/12/2018	8:30	47	64	54	49	44	0.0	0.9	2.7	158	24	66	713
13/12/2018	8:45	50	79	56	51	45	0.0	1.3	3.1	158	25	63	713
13/12/2018	9:00	50	69	60	51	45	0.0	1.3	3.6	90	25	62	713
13/12/2018	9:15	47	66	57	50	39	0.0	1.3	3.6	90	25	61	712
13/12/2018	9:30	44	61	52	47	39	0.0	1.3	3.1	90	25	59	712
13/12/2018	9:45	48	74	60	47	39	0.0	1.3	3.1	90	26	58	712
13/12/2018	10:00	45	72	51	45	38	0.0	1.3	4.5	90	27	55	712
13/12/2018	10:15	46	63	57	48	40	0.0	1.8	3.6	0	27	54	712
13/12/2018	10:30	45	66	52	46	40	0.0	1.3	4.9	90	28	64	712
13/12/2018	10:45	45	63	53	47	41	0.6	0.0	0.0	0	32	53	712
13/12/2018	11:00	47	66	55	48	41	0.0	0.0	0.0	0	33	45	712
13/12/2018	11:15	46	63	56	49	41	1.0	0.0	0.0	0	33	47	712
13/12/2018	11:30	46	71	56	48	40	0.0	0.0	0.0	0	33	48	711
13/12/2018	11:45	47	65	55	49	42	0.0	0.0	0.0	0	33	49	711
13/12/2018	12:00	47	69	57	48	40	0.6	0.0	0.0	0	32	50	709
13/12/2018	12:15	48	68	57	50	41	0.2	0.0	0.0	0	32	48	701
13/12/2018	12:30	44	63	51	47	40	0.2	0.0	0.0	0	32	47	704
13/12/2018	12:45	47	67	55	48	40	0.0	0.0	0.0	0	31	48	705
13/12/2018	13:00	50	75	62	49	40	1.2	0.0	0.0	0	31	48	704
13/12/2018	13:15	47	72	54	49	42	0.2	0.0	0.0	0	31	46	745
13/12/2018	13:30	45	56	52	47	40	0.8	0.0	0.0	0	31	45	745
13/12/2018	13:45	44	60	50	46	39	0.6	0.0	0.0	0	30	45	730
13/12/2018	14:00	46	62	56	49	41	0.0	0.0	0.0	0	30	47	729
13/12/2018	14:15	44	57	49	47	41	0.0	0.0	0.0	0	30	48	729
13/12/2018	14:30	44	65	50	47	39	0.0	0.0	0.0	0	30	49	729
13/12/2018	14:45	46	59	53	49	41	1.4	0.0	0.0	0	30	48	744
13/12/2018	15:00	47	62	55	49	41	0.4	0.0	0.0	0	31	45	741
13/12/2018	15:15	45	63	53	46	41	0.2	0.0	0.0	0	30	42	738
13/12/2018	15:30	46	67	56	47	40	2.4	0.0	0.0	0	30	40	732
13/12/2018	15:45	47	67	55	49	42	1.2	0.0	0.0	0	30	40	707
13/12/2018	16:00	46	68	56	47	41	1.2	0.0	0.0	0	29	39	707
13/12/2018	16:15	47	63	57	49	41	0.0	0.0	0.0	0	29	41	707
13/12/2018	16:30	46	67	56	46	40	0.0	0.0	0.0	0	29	42	707
13/12/2018	16:45	47	67	57	48	41	0.2	0.0	0.0	0	29	43	707
13/12/2018	17:00	47	62	56	50	42	0.2	0.0	0.0	0	29	43	706
13/12/2018	17:15	46	64	54	47	43	0.6	0.0	0.0	0	29	40	699
13/12/2018	17:30	47	68	57	47	41	0.0	0.0	0.0	0	29	40	703
13/12/2018	17:45	47	64	57	48	42	0.0	0.0	0.0	0	29	40	703
13/12/2018	18:00	46	69	55	47	41	0.0	0.0	0.0	0	28	41	703
13/12/2018	18:15	47	78	54	47	40	0.0	0.0	0.0	0	28	41	704
13/12/2018	18:30	44	65	52	45	40	0.0	0.0	0.0	0	28	42	704
13/12/2018	18:45	52	71	63	55	40	0.0	0.0	0.0	0	28	42	704
13/12/2018	19:00	53	57	57	56	48	0.0	0.0	0.0	0	28	42	704
13/12/2018	19:15	48	54	51	50	45	0.0	0.0	0.0	0	28	42	704
13/12/2018	19:30	53	64	61	57	45	0.0	0.0	0.0	0	28	42	704
13/12/2018	19:45	53	61	60	57	43	0.0	0.0	0.0	0	28	43	704
13/12/2018	20:00	49	55	53	52	45	0.0	0.0	0.0	0	28	43	704
13/12/2018	20:15	47	55	50	48	45	0.0	0.0	0.0	0	28	43	704
13/12/2018	20:30	42	60	48	43	39	0.0	0.0	0.0	0	28	43	705
13/12/2018	20:45	41	53	46	43	38	0.0	0.0	0.0	0	28	43	705
13/12/2018	21:00	42	62	50	43	39	0.0	0.0	0.0	0	28	43	705
13/12/2018	21:15	42	57	46	44	38	0.0	0.0	0.0	0	28	43	705
13/12/2018	21:30	42	53	46	44	38	0.0	0.0	0.0	0	28	43	704
13/12/2018	21:45	41	53	47	44	37	0.0	0.0	0.0	0	28	43	704
13/12/2018	22:00	41	51	46	44	36	0.0	0.0	0.0	0	28	43	704
13/12/2018	22:15	39	49	45	43	36	0.0	0.0	0.0	0	28	43	704
13/12/2018	22:30	39	49	44	42	36	0.0	0.0	0.0	0	28	43	704
13/12/2018	22:45	41	61	47	43	37	0.0	0.0	0.0	0	29	43	704

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
13/12/2018	23:00	39	48	44	41	37	0.0	0.0	0.0	0	28	43	704
13/12/2018	23:15	40	48	45	43	38	0.0	0.0	0.0	0	28	43	704
13/12/2018	23:30	40	48	45	43	37	0.0	0.0	0.0	0	29	43	704
13/12/2018	23:45	40	50	47	43	37	0.0	0.0	0.0	0	28	43	704
14/12/2018	0:00	42	60	47	43	38	0.0	0.0	0.0	0	28	43	704
14/12/2018	0:15	40	45	44	42	37	0.0	0.0	0.0	0	28	43	704
14/12/2018	0:30	40	52	46	43	37	0.0	0.0	0.0	0	28	43	704
14/12/2018	0:45	39	46	44	41	37	0.0	0.0	0.0	0	28	43	704
14/12/2018	1:00	38	46	43	40	37	0.0	0.0	0.0	0	28	43	702
14/12/2018	1:15	38	47	44	40	37	0.0	0.0	0.0	0	28	43	703
14/12/2018	1:30	39	48	43	40	37	0.0	0.0	0.0	0	28	43	703
14/12/2018	1:45	38	49	43	41	33	0.0	0.0	0.0	0	28	43	703
14/12/2018	2:00	38	50	43	42	34	0.0	0.0	0.0	0	28	43	703
14/12/2018	2:15	37	49	43	40	34	0.0	0.0	0.0	0	28	43	703
14/12/2018	2:30	36	47	42	39	34	0.0	0.0	0.0	0	28	43	703
14/12/2018	2:45	37	46	43	39	35	0.0	0.0	0.0	0	28	43	703
14/12/2018	3:00	40	49	47	42	36	0.0	0.0	0.0	0	28	43	703
14/12/2018	3:15	39	48	44	42	36	0.0	0.0	0.0	0	28	43	703
14/12/2018	3:30	39	49	45	41	35	0.0	0.0	0.0	0	28	43	703
14/12/2018	3:45	45	50	49	48	41	0.0	0.0	0.0	0	28	43	703
14/12/2018	4:00	41	49	45	44	38	0.0	0.0	0.0	0	28	43	704
14/12/2018	4:15	44	62	52	45	40	0.0	0.0	0.0	0	28	43	703
14/12/2018	4:30	48	65	60	47	40	0.0	0.0	0.0	0	28	43	703
14/12/2018	4:45	51	73	61	52	43	0.0	0.0	0.0	0	28	44	704
14/12/2018	5:00	53	74	64	54	44	0.0	0.0	0.0	0	28	44	704
14/12/2018	5:15	56	79	68	56	44	0.0	0.0	0.0	0	28	43	704
14/12/2018	5:30	47	69	56	48	42	0.0	0.0	0.0	0	28	44	704
14/12/2018	5:45	50	72	57	51	44	0.0	0.0	0.0	0	28	44	704
14/12/2018	6:00	50	70	58	51	46	0.0	0.0	0.0	0	28	44	704
14/12/2018	6:15	52	75	62	52	44	0.0	0.0	0.0	0	28	44	704
14/12/2018	6:30	48	71	58	49	43	0.0	0.0	0.0	0	28	44	704
14/12/2018	6:45	48	64	55	50	44	0.0	0.0	0.0	0	28	44	704
14/12/2018	7:00	48	78	55	48	42	0.0	0.0	0.0	0	27	44	704
14/12/2018	7:15	47	65	58	48	42	0.0	0.0	0.0	0	27	44	704
14/12/2018	7:30	47	70	56	48	43	0.0	0.0	0.0	0	27	44	704
14/12/2018	7:45	52	72	64	53	44	0.6	0.0	0.0	0	27	44	703
14/12/2018	8:00	57	83	68	52	44	0.4	0.0	0.0	0	27	42	701
14/12/2018	8:15	48	70	57	49	42	0.0	0.0	0.0	0	27	41	705
14/12/2018	8:30	47	72	54	49	42	0.2	0.0	0.0	0	27	41	710

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_09

From	Friday 7/12/2018 10:30	Meas. Type	Free Field	Package	Border to Gowrie
To	Friday 14/12/2018 9:45	Mic. Height (m)	1.8	Address	5 Bailey Street
Instrument Type	Larson Davis 831	Weather Station	No	Suburb	Southbrook
Instrument Serial #	2846	Operator	JR	Land Use	Residential
Inst. Cal. Date	11/10/2018	Sample Int.	15 min	Latitude	27°40'36.88"S
Pre Calibration	94.5	RP Lot#	40128443	Longitude	151°42'27.92"E
Post Calibration	94				

Daytime

RBL **39.5 dB(A)**

ABLs Day (Mon-Fri 7am - 6 pm)

ABLs Day (Sat 8 am - 1 pm)

Friday 7/12/2018	39.5	dB(A)
Saturday 8/12/2018	40.9	dB(A)
Monday 10/12/2018	35.3	dB(A)
Tuesday 11/12/2018	36.4	dB(A)
Wednesday 12/12/2018	35.8	dB(A)
Thursday 13/12/2018	41.2	dB(A)
Friday 14/12/2018	46.1	dB(A)

Evening

RBL **37.1 dB(A)**

ABLs Evening (Mon-Fri 6 pm - 10 pm)

ABLs Evening (Sat 1 pm - 10 pm)

ABLs Evening (Sun 7 am - 10 pm)

Friday 7/12/2018	37.1	dB(A)
Saturday 8/12/2018	35.2	dB(A)
Sunday 9/12/2018	37.1	dB(A)
Monday 10/12/2018	34.9	dB(A)
Tuesday 11/12/2018	37.5	dB(A)
Wednesday 12/12/2018	37.3	dB(A)
Thursday 13/12/2018	35.7	dB(A)

Night

RBL **29.5 dB(A)**

ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)

ABLs Night (Fri 6pm - 8am)

Friday 7/12/2018	27.2	dB(A)
Saturday 8/12/2018	<23	dB(A)
Sunday 9/12/2018	29.5	dB(A)
Monday 10/12/2018	29.1	dB(A)
Tuesday 11/12/2018	31.2	dB(A)
Wednesday 12/12/2018	33.3	dB(A)
Thursday 13/12/2018	31.8	dB(A)

Site Diagram - Diagram

Future Freight
Integrating Community, Environment and Engineering

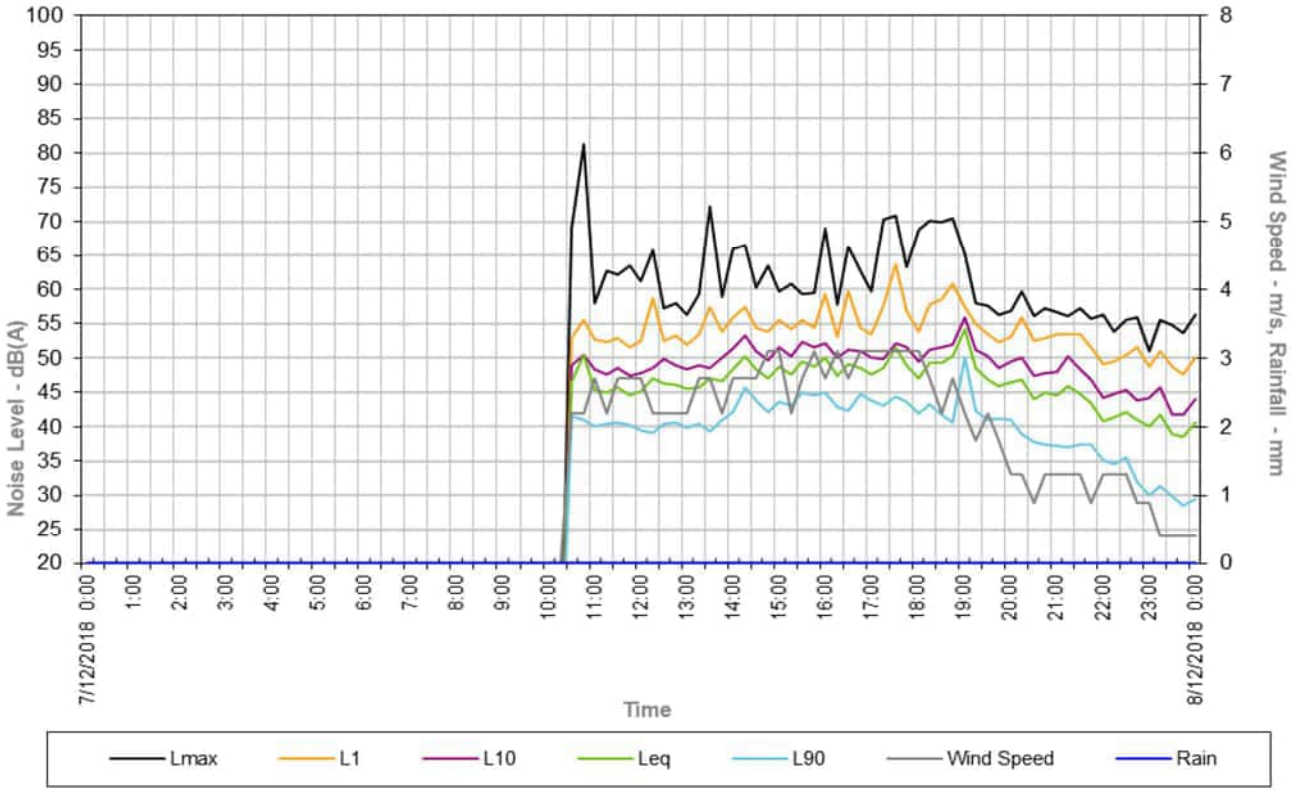
Site Attended Measurements Summary

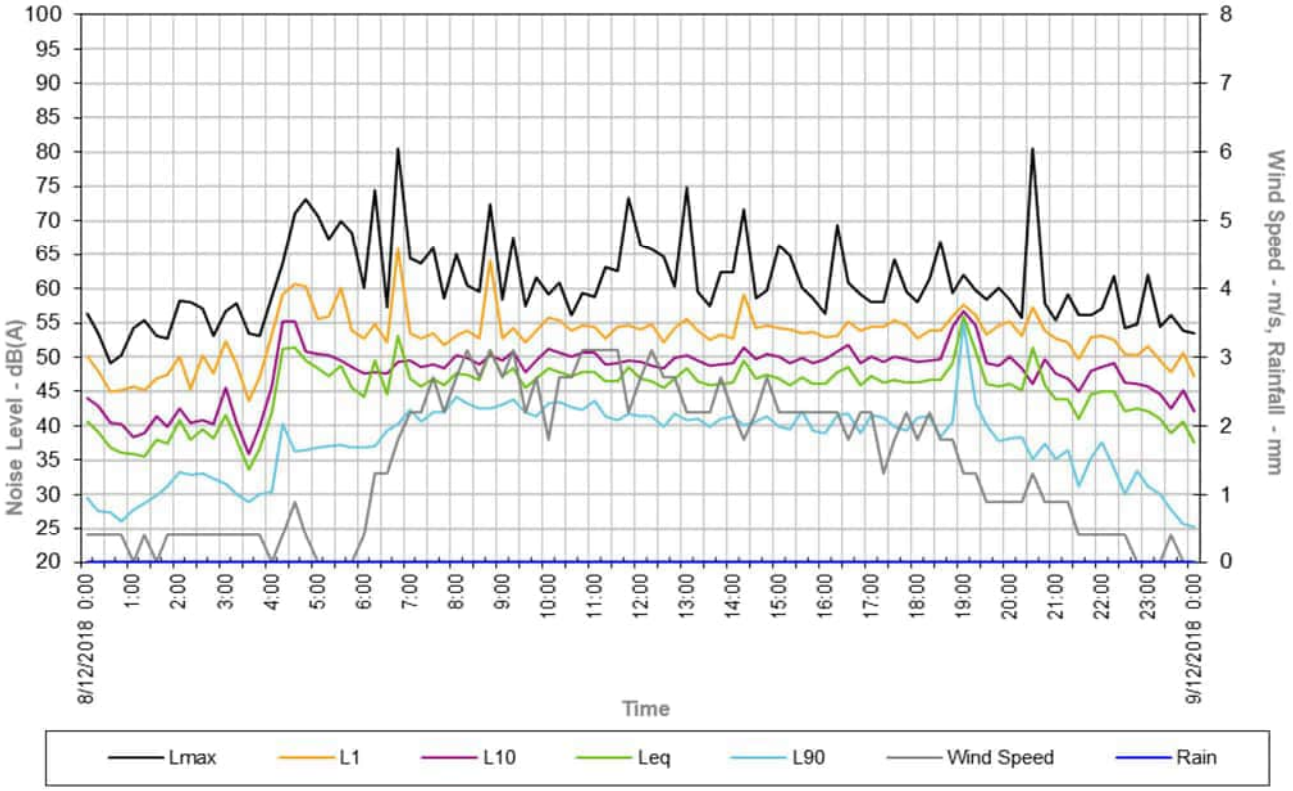
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
7/12/2018	10:15 AM	Attended	76.9	54.3	49.9	40.9	48.0	Pass	10:30 AM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Attended measurement taken before the start of the noise logging period. Background is distant road hum from Gore hwy 43-48 dB(A). Occasional bird noise at 50-76 dB(A). Local road road traffic on O'Shea Avenue at 48 dB(A).								
14/12/2018	9:45 AM	Attended	67.1	60.3	54.6	43.2	51.3	Fail	10:00 AM
		Logged	67.8	62.7	58.4	47.0	55.1		
		Difference	-0.7	-2.4	-3.8	-3.8	-3.8		
Comments	Backgorund is road traffic noise from gore highway at 45-47 dB(A). Light/moderate wind noise in nearby trees at 46-49 dB(A). Falling object at 67 dB(A). Bird noise barely audible.								

Photos

Site Noise and Weather Graphical Analysis

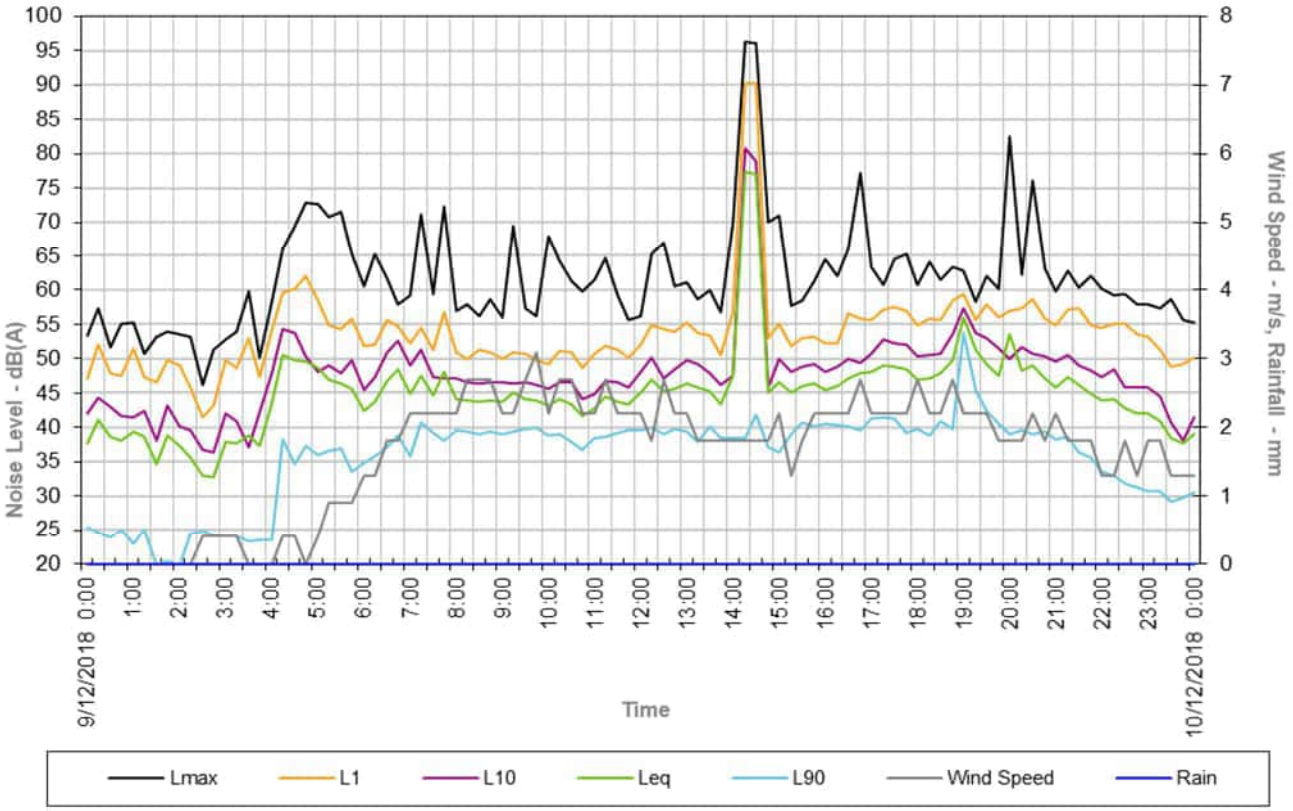
5 Bailey Street

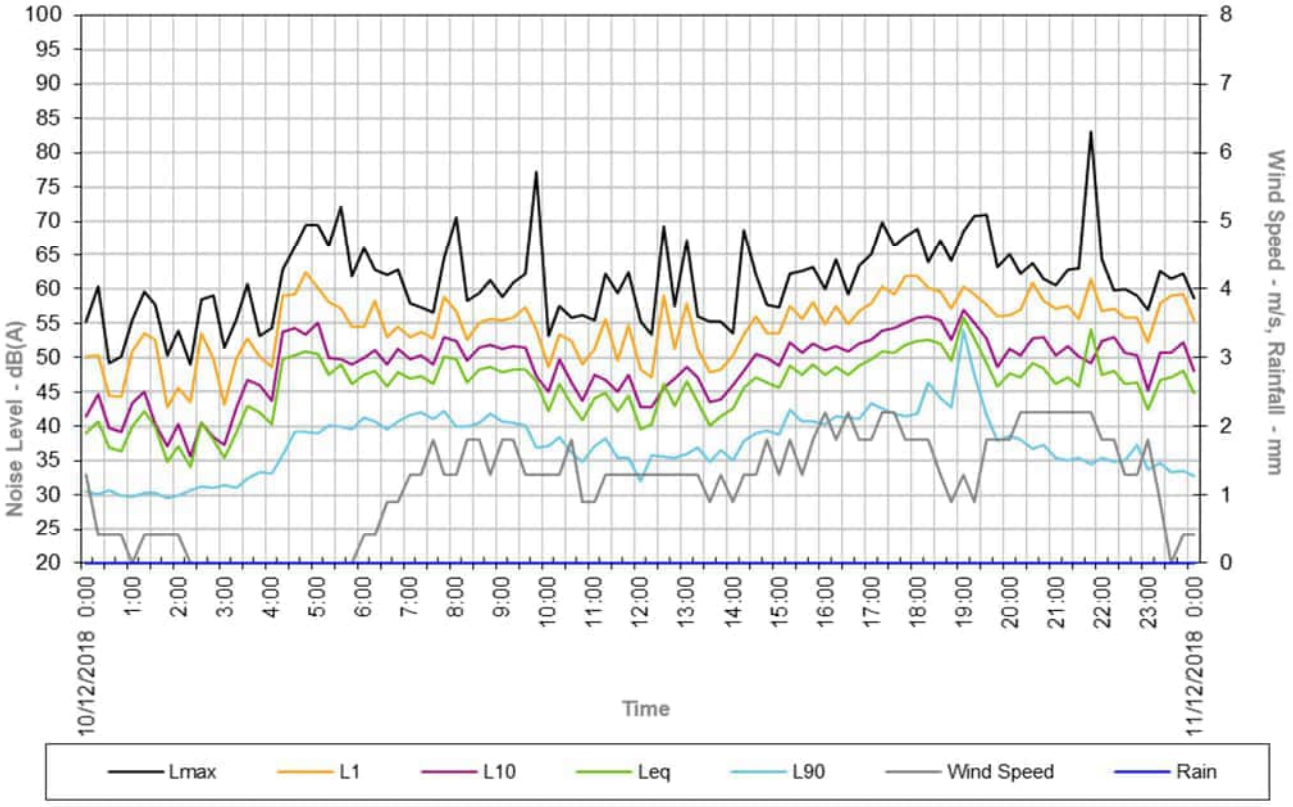




Site Noise and Weather Graphical Analysis

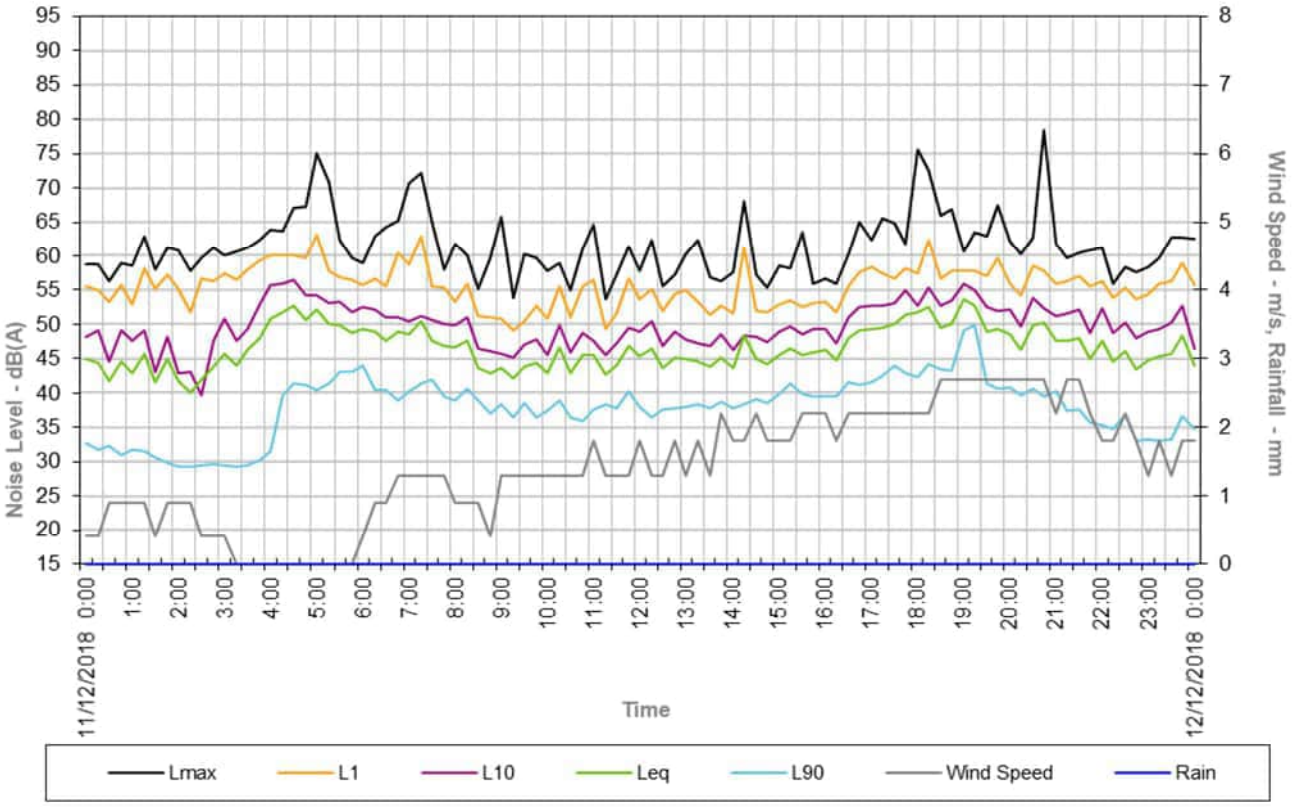
5 Bailey Street

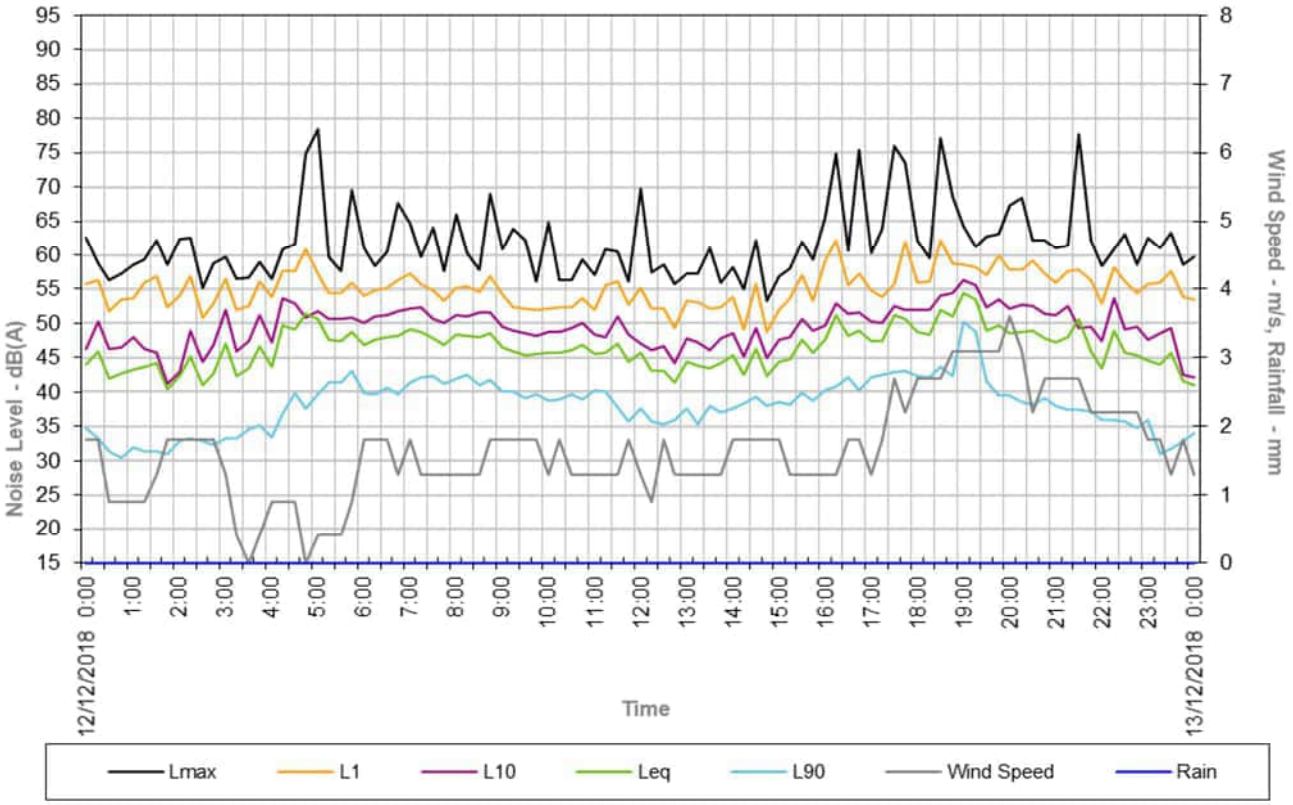




Site Noise and Weather Graphical Analysis

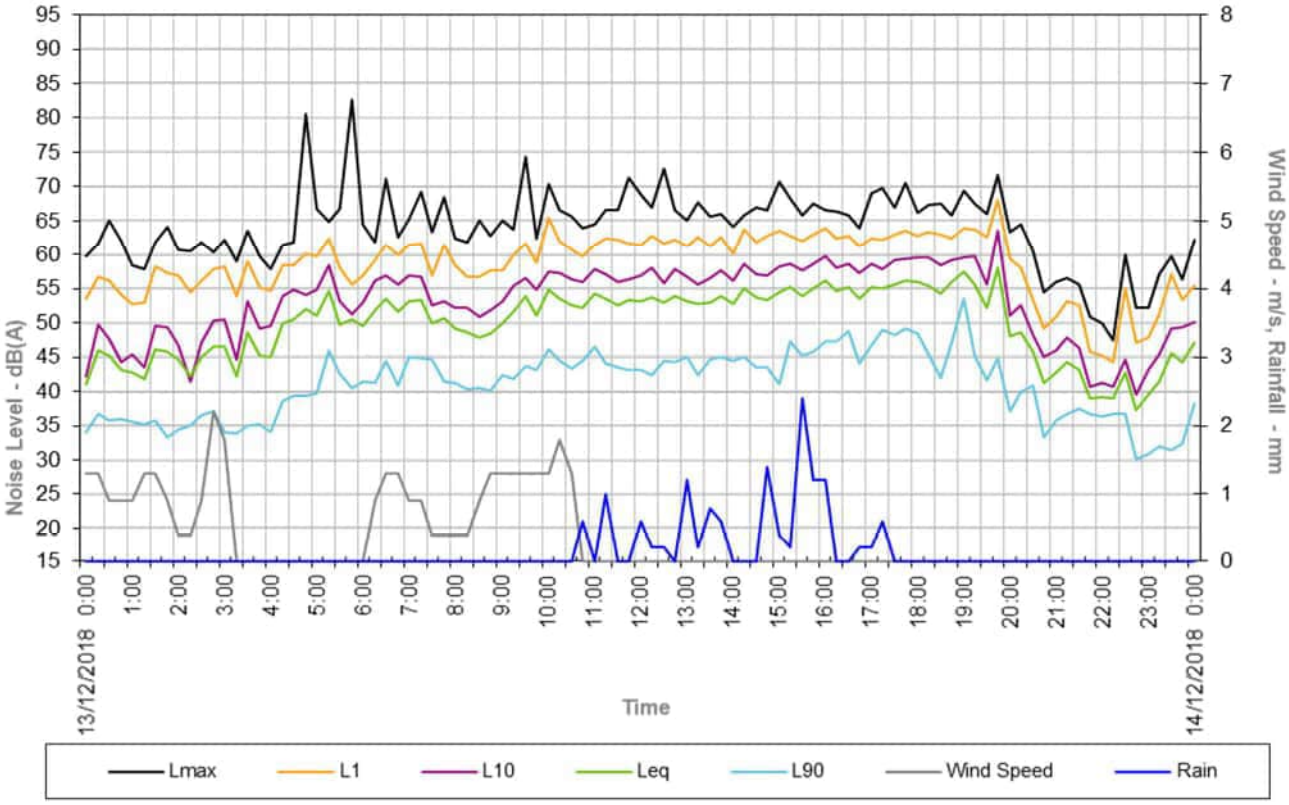
5 Bailey Street

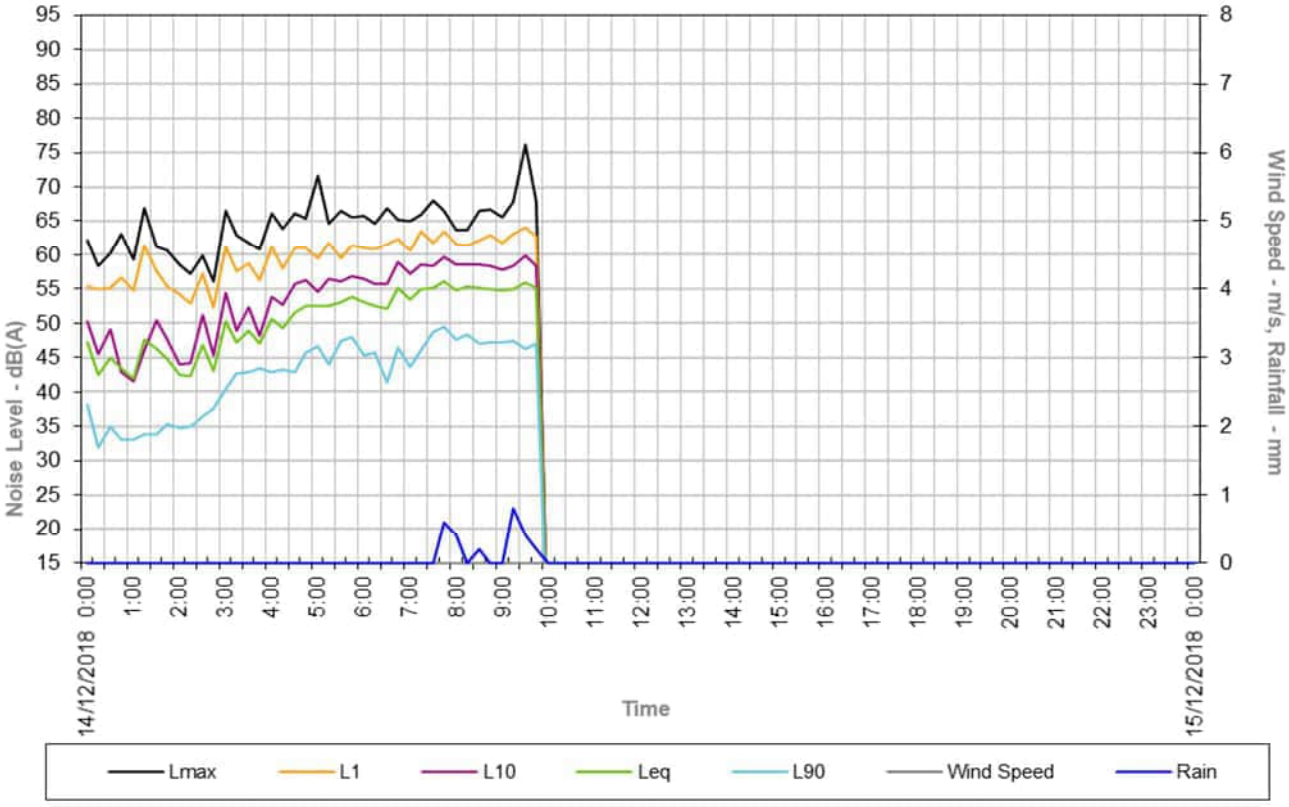




Site Noise and Weather Graphical Analysis

5 Bailey Street





Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018	10:30	47	69	53	49	42	0.0	2.2	4.9	68	23	51	720
7/12/2018	10:45	50	81	56	50	41	0.0	2.2	5.8	68	24	51	720
7/12/2018	11:00	45	58	53	48	40	0.0	2.7	5.4	68	24	50	720
7/12/2018	11:15	45	63	52	48	40	0.0	2.2	5.8	90	24	48	720
7/12/2018	11:30	46	62	53	49	41	0.0	2.7	5.8	90	24	47	720
7/12/2018	11:45	45	64	52	47	40	0.0	2.7	7.2	90	25	46	720
7/12/2018	12:00	45	61	53	48	40	0.0	2.7	5.4	90	24	47	720
7/12/2018	12:15	47	66	59	49	39	0.0	2.2	5.4	113	25	46	720
7/12/2018	12:30	46	57	53	50	40	0.0	2.2	5.4	90	25	45	720
7/12/2018	12:45	46	58	53	49	41	0.0	2.2	5.4	113	26	44	720
7/12/2018	13:00	46	56	52	48	40	0.0	2.2	6.3	68	25	45	720
7/12/2018	13:15	46	59	54	49	41	0.0	2.7	5.4	90	25	45	719
7/12/2018	13:30	47	72	57	49	39	0.0	2.7	6.3	113	25	44	719
7/12/2018	13:45	47	59	54	50	41	0.0	2.2	5.8	113	26	42	719
7/12/2018	14:00	48	66	56	51	42	0.0	2.7	6.7	90	25	43	719
7/12/2018	14:15	50	67	57	53	46	0.0	2.7	6.3	68	25	46	719
7/12/2018	14:30	48	60	55	51	44	0.0	2.7	5.4	68	24	48	719
7/12/2018	14:45	47	64	54	50	42	0.0	3.1	7.2	45	25	49	719
7/12/2018	15:00	49	60	56	52	44	0.0	3.1	6.3	68	25	47	719
7/12/2018	15:15	48	61	54	50	43	0.0	2.2	6.7	45	25	47	719
7/12/2018	15:30	50	59	56	52	45	0.0	2.7	6.3	68	25	49	718
7/12/2018	15:45	49	60	54	52	45	0.0	3.1	8.0	45	25	48	719
7/12/2018	16:00	50	69	59	52	45	0.0	2.7	8.0	45	24	48	719
7/12/2018	16:15	48	58	53	50	43	0.0	3.1	6.7	45	24	48	718
7/12/2018	16:30	49	66	60	51	42	0.0	2.7	6.3	68	24	50	718
7/12/2018	16:45	49	63	55	51	45	0.0	3.1	6.7	68	24	48	718
7/12/2018	17:00	48	60	54	50	44	0.0	3.1	6.3	45	23	49	718
7/12/2018	17:15	49	70	58	50	43	0.0	3.1	7.2	45	23	52	719
7/12/2018	17:30	52	71	64	52	44	0.0	3.1	7.2	45	22	55	719
7/12/2018	17:45	49	63	57	52	44	0.0	3.1	6.3	90	22	57	719
7/12/2018	18:00	47	69	54	50	42	0.0	3.1	7.2	45	21	59	719
7/12/2018	18:15	49	70	58	51	43	0.0	2.7	6.3	90	21	60	719
7/12/2018	18:30	49	70	59	52	42	0.0	2.2	4.9	90	20	62	719
7/12/2018	18:45	50	71	61	52	41	0.0	2.7	5.8	68	20	64	719
7/12/2018	19:00	54	65	57	56	50	0.0	2.2	6.3	90	20	66	720
7/12/2018	19:15	49	58	55	51	42	0.0	1.8	5.4	90	19	66	720
7/12/2018	19:30	47	58	54	50	41	0.0	2.2	5.4	68	19	68	720
7/12/2018	19:45	46	56	52	49	41	0.0	1.8	4.0	90	18	71	720
7/12/2018	20:00	47	57	53	50	41	0.0	1.3	6.3	113	18	73	720
7/12/2018	20:15	47	60	56	50	39	0.0	1.3	4.0	90	18	74	720
7/12/2018	20:30	44	56	53	48	38	0.0	0.9	3.1	90	18	75	720
7/12/2018	20:45	45	57	53	48	37	0.0	1.3	4.0	90	17	76	720
7/12/2018	21:00	45	57	54	48	37	0.0	1.3	3.1	90	17	76	720
7/12/2018	21:15	46	56	53	50	37	0.0	1.3	3.6	90	17	75	720
7/12/2018	21:30	45	57	54	48	38	0.0	1.3	3.6	113	17	75	720
7/12/2018	21:45	44	56	52	47	38	0.0	0.9	3.1	90	17	75	720
7/12/2018	22:00	41	56	49	44	35	0.0	1.3	3.6	90	17	76	721
7/12/2018	22:15	41	54	50	45	35	0.0	1.3	4.0	90	17	76	720
7/12/2018	22:30	42	56	51	45	36	0.0	1.3	3.6	113	17	77	720
7/12/2018	22:45	41	56	52	44	32	0.0	0.9	3.1	90	16	78	720
7/12/2018	23:00	40	51	49	44	30	0.0	0.9	2.2	113	16	79	720
7/12/2018	23:15	42	56	51	46	31	0.0	0.4	3.1	113	16	79	720
7/12/2018	23:30	39	55	49	42	30	0.0	0.4	2.7	113	16	78	720
7/12/2018	23:45	39	54	48	42	29	0.0	0.4	3.1	113	16	78	720
8/12/2018	0:00	41	56	50	44	30	0.0	0.4	3.1	113	16	77	720
8/12/2018	0:15	39	53	48	43	28	0.0	0.4	2.2	113	16	78	720
8/12/2018	0:30	37	49	45	40	27	0.0	0.4	1.8	113	16	78	720
8/12/2018	0:45	36	50	45	40	26	0.0	0.4	1.8	113	16	78	719
8/12/2018	1:00	36	54	46	38	28	0.0	0.0	1.3	113	16	78	719
8/12/2018	1:15	36	55	45	39	29	0.0	0.4	1.3	113	16	76	719
8/12/2018	1:30	38	53	47	41	30	0.0	0.0	1.3	113	16	77	719
8/12/2018	1:45	37	53	48	40	31	0.0	0.4	1.8	113	16	76	719
8/12/2018	2:00	41	58	50	43	33	0.0	0.4	2.2	113	16	76	719
8/12/2018	2:15	38	58	45	40	33	0.0	0.4	1.3	113	16	76	719
8/12/2018	2:30	40	57	50	41	33	0.0	0.4	1.8	113	16	76	719
8/12/2018	2:45	38	53	48	40	32	0.0	0.4	1.8	113	16	77	719
8/12/2018	3:00	42	57	52	46	32	0.0	0.4	3.1	113	16	77	719
8/12/2018	3:15	38	58	49	40	30	0.0	0.4	2.2	113	16	78	719
8/12/2018	3:30	34	53	44	36	29	0.0	0.4	2.7	113	16	79	719
8/12/2018	3:45	37	53	47	40	30	0.0	0.4	1.3	113	15	79	719

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	4:00	42	59	53	46	31	0.0	0.0	1.3	113	15	79	719
8/12/2018	4:15	51	64	59	55	40	0.0	0.4	1.8	113	15	79	719
8/12/2018	4:30	51	71	61	55	36	0.0	0.9	2.7	113	15	79	719
8/12/2018	4:45	50	73	60	51	37	0.0	0.4	1.8	113	15	79	719
8/12/2018	5:00	48	71	56	50	37	0.0	0.0	0.9	113	15	79	719
8/12/2018	5:15	47	67	56	50	37	0.0	0.0	0.9	113	15	80	719
8/12/2018	5:30	49	70	60	50	37	0.0	0.0	0.9	113	15	79	719
8/12/2018	5:45	46	68	54	49	37	0.0	0.0	1.3	113	16	77	719
8/12/2018	6:00	44	60	53	48	37	0.0	0.4	2.2	113	17	75	719
8/12/2018	6:15	50	75	55	48	37	0.0	1.3	3.1	113	18	73	720
8/12/2018	6:30	45	57	52	48	39	0.0	1.3	4.0	113	18	72	720
8/12/2018	6:45	53	81	66	49	40	0.0	1.8	4.5	113	18	72	720
8/12/2018	7:00	47	65	53	50	42	0.0	2.2	6.7	90	19	71	720
8/12/2018	7:15	46	64	53	49	41	0.0	2.2	6.7	90	19	70	720
8/12/2018	7:30	47	66	53	49	42	0.0	2.7	5.4	90	19	69	720
8/12/2018	7:45	46	59	52	48	42	0.0	2.2	6.7	90	20	67	720
8/12/2018	8:00	48	65	53	50	44	0.0	2.7	6.3	90	20	65	720
8/12/2018	8:15	48	60	54	50	43	0.0	3.1	8.0	90	21	63	720
8/12/2018	8:30	47	60	53	49	43	0.0	2.7	6.3	90	21	61	720
8/12/2018	8:45	51	72	64	50	43	0.0	3.1	6.7	68	22	60	720
8/12/2018	9:00	47	58	53	50	43	0.0	2.7	7.2	68	22	58	720
8/12/2018	9:15	48	68	54	51	44	0.0	3.1	6.3	68	22	60	720
8/12/2018	9:30	46	58	52	48	42	0.0	2.2	6.3	90	23	57	720
8/12/2018	9:45	47	62	54	50	41	0.0	2.7	6.3	68	23	56	720
8/12/2018	10:00	48	59	56	51	43	0.0	1.8	5.8	68	23	56	720
8/12/2018	10:15	48	61	55	51	44	0.0	2.7	8.9	90	23	57	720
8/12/2018	10:30	47	56	54	50	43	0.0	2.7	5.8	90	23	56	720
8/12/2018	10:45	48	59	55	51	42	0.0	3.1	7.2	45	24	56	719
8/12/2018	11:00	48	59	54	51	44	0.0	3.1	6.7	68	24	56	720
8/12/2018	11:15	47	63	53	49	41	0.0	3.1	6.3	68	24	56	720
8/12/2018	11:30	47	63	55	49	41	0.0	3.1	7.2	68	23	59	720
8/12/2018	11:45	49	73	55	50	42	0.0	2.2	5.8	68	23	58	719
8/12/2018	12:00	47	66	54	49	41	0.0	2.7	5.4	68	23	59	719
8/12/2018	12:15	47	66	55	49	41	0.0	3.1	5.8	68	24	58	719
8/12/2018	12:30	46	65	52	48	40	0.0	2.7	6.7	90	23	60	719
8/12/2018	12:45	47	60	54	50	42	0.0	2.7	6.3	68	24	58	719
8/12/2018	13:00	48	75	56	50	41	0.0	2.2	5.8	68	23	58	719
8/12/2018	13:15	47	60	54	50	41	0.0	2.2	5.8	68	24	57	719
8/12/2018	13:30	46	58	53	49	40	0.0	2.2	6.3	68	23	58	719
8/12/2018	13:45	46	62	53	49	41	0.0	2.7	6.3	68	23	60	719
8/12/2018	14:00	46	62	53	49	41	0.0	2.2	4.9	90	22	62	719
8/12/2018	14:15	50	72	59	51	40	0.0	1.8	6.7	90	23	61	719
8/12/2018	14:30	47	59	54	50	41	0.0	2.2	4.9	90	23	60	719
8/12/2018	14:45	47	60	55	50	41	0.0	2.7	5.4	68	23	59	719
8/12/2018	15:00	47	66	54	50	40	0.0	2.2	5.8	68	23	58	719
8/12/2018	15:15	46	65	54	49	40	0.0	2.2	5.8	68	23	58	718
8/12/2018	15:30	47	60	53	50	42	0.0	2.2	4.9	90	24	54	718
8/12/2018	15:45	46	59	54	49	39	0.0	2.2	4.9	68	23	54	718
8/12/2018	16:00	46	56	53	50	39	0.0	2.2	5.4	68	23	57	719
8/12/2018	16:15	48	69	53	51	42	0.0	2.2	4.9	68	23	56	719
8/12/2018	16:30	49	61	55	52	42	0.0	1.8	4.5	90	24	55	718
8/12/2018	16:45	46	59	54	49	39	0.0	2.2	4.9	90	24	54	718
8/12/2018	17:00	47	58	55	50	42	0.0	2.2	4.9	90	23	55	718
8/12/2018	17:15	46	58	55	49	41	0.0	1.3	4.0	113	24	55	718
8/12/2018	17:30	47	64	55	50	40	0.0	1.8	4.9	113	23	56	719
8/12/2018	17:45	46	60	55	50	39	0.0	2.2	4.9	90	22	59	719
8/12/2018	18:00	46	58	53	49	41	0.0	1.8	4.0	113	22	58	719
8/12/2018	18:15	47	61	54	50	41	0.0	2.2	4.9	90	22	60	719
8/12/2018	18:30	47	67	54	50	38	0.0	1.8	5.4	113	21	62	719
8/12/2018	18:45	49	59	56	54	41	0.0	1.8	4.0	90	21	62	719
8/12/2018	19:00	56	62	58	57	55	0.0	1.3	3.6	90	20	63	720
8/12/2018	19:15	51	60	56	55	43	0.0	1.3	4.0	113	20	65	720
8/12/2018	19:30	46	58	53	49	40	0.0	0.9	2.7	113	20	66	720
8/12/2018	19:45	46	60	55	49	38	0.0	0.9	3.6	113	19	68	720
8/12/2018	20:00	46	58	55	50	38	0.0	0.9	3.1	113	19	69	720
8/12/2018	20:15	45	56	53	48	38	0.0	0.9	2.7	113	19	70	720
8/12/2018	20:30	52	81	57	46	35	0.0	1.3	2.7	90	18	71	720
8/12/2018	20:45	46	58	54	50	37	0.0	0.9	3.1	90	18	73	720
8/12/2018	21:00	44	55	53	48	35	0.0	0.9	3.1	113	18	74	720
8/12/2018	21:15	44	59	52	47	37	0.0	0.9	2.7	90	18	74	720

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018 21:30	41	56	50	45	31	0.0	0.4	2.7	113	18	75	720
8/12/2018 21:45	45	56	53	48	35	0.0	0.4	2.2	113	17	76	720
8/12/2018 22:00	45	57	53	49	38	0.0	0.4	1.3	90	17	77	720
8/12/2018 22:15	45	62	53	49	34	0.0	0.4	1.3	113	17	77	720
8/12/2018 22:30	42	54	51	46	30	0.0	0.4	1.8	113	17	78	720
8/12/2018 22:45	43	55	50	46	33	0.0	0.0	1.3	113	16	80	720
8/12/2018 23:00	42	62	52	46	31	0.0	0.0	0.4	113	16	81	720
8/12/2018 23:15	41	54	50	45	30	0.0	0.0	0.9	90	16	81	720
8/12/2018 23:30	39	56	48	43	28	0.0	0.4	1.8	113	16	81	720
8/12/2018 23:45	41	54	51	45	26	0.0	0.0	1.8	90	16	82	719
9/12/2018 0:00	38	53	47	42	25	0.0	0.0	0.9	113	16	83	719
9/12/2018 0:15	41	57	52	44	25	0.0	0.0	1.3	113	15	84	719
9/12/2018 0:30	39	52	48	43	24	0.0	0.0	1.3	113	15	84	719
9/12/2018 0:45	38	55	48	42	25	0.0	0.0	1.3	113	15	85	719
9/12/2018 1:00	39	55	52	41	23	0.0	0.0	0.9	113	15	84	719
9/12/2018 1:15	39	51	47	43	25	0.0	0.0	0.4	113	14	87	719
9/12/2018 1:30	35	53	47	38	20	0.0	0.0	0.9	113	14	87	719
9/12/2018 1:45	39	54	50	43	21	0.0	0.0	1.3	90	14	88	719
9/12/2018 2:00	37	54	49	40	20	0.0	0.0	1.3	113	15	86	718
9/12/2018 2:15	36	53	46	40	25	0.0	0.0	1.3	113	15	86	718
9/12/2018 2:30	33	46	41	37	25	0.0	0.4	1.8	113	15	85	718
9/12/2018 2:45	33	51	43	36	24	0.0	0.4	1.8	113	15	85	718
9/12/2018 3:00	38	53	50	42	24	0.0	0.4	2.2	113	15	85	718
9/12/2018 3:15	38	54	49	41	24	0.0	0.4	1.8	113	14	85	718
9/12/2018 3:30	39	60	53	37	23	0.0	0.0	0.9	113	14	86	718
9/12/2018 3:45	37	50	47	42	24	0.0	0.0	0.9	113	14	86	718
9/12/2018 4:00	44	58	54	48	24	0.0	0.0	0.4	113	14	86	718
9/12/2018 4:15	51	66	60	54	38	0.0	0.4	1.3	113	15	86	718
9/12/2018 4:30	50	69	60	54	35	0.0	0.4	1.8	113	15	86	718
9/12/2018 4:45	50	73	62	50	37	0.0	0.0	1.3	113	15	86	718
9/12/2018 5:00	49	73	59	48	36	0.0	0.4	2.2	113	15	87	718
9/12/2018 5:15	47	71	55	49	37	0.0	0.9	3.1	113	16	85	718
9/12/2018 5:30	46	72	54	48	37	0.0	0.9	3.6	113	16	84	718
9/12/2018 5:45	46	65	56	50	34	0.0	0.9	2.7	113	17	80	718
9/12/2018 6:00	42	61	52	45	35	0.0	1.3	4.0	113	18	77	718
9/12/2018 6:15	44	65	52	47	36	0.0	1.3	4.0	113	19	75	718
9/12/2018 6:30	47	62	56	51	37	0.0	1.8	4.9	90	19	75	718
9/12/2018 6:45	48	58	55	53	39	0.0	1.8	4.5	113	19	75	719
9/12/2018 7:00	45	59	52	49	36	0.0	2.2	5.8	113	20	72	719
9/12/2018 7:15	48	71	55	51	41	0.0	2.2	5.4	90	21	71	719
9/12/2018 7:30	45	60	51	47	39	0.0	2.2	5.4	113	21	70	719
9/12/2018 7:45	48	72	57	47	38	0.0	2.2	5.4	90	22	67	719
9/12/2018 8:00	44	57	51	47	40	0.0	2.2	5.8	90	22	66	719
9/12/2018 8:15	44	58	50	47	39	0.0	2.7	5.8	90	23	64	719
9/12/2018 8:30	44	56	51	46	39	0.0	2.7	7.2	90	23	62	719
9/12/2018 8:45	44	59	51	47	39	0.0	2.7	5.8	113	23	62	719
9/12/2018 9:00	44	56	50	47	39	0.0	2.2	5.8	90	24	58	719
9/12/2018 9:15	45	70	51	46	39	0.0	2.2	5.4	90	24	58	719
9/12/2018 9:30	44	57	51	47	40	0.0	2.7	6.3	90	25	55	719
9/12/2018 9:45	44	56	50	46	40	0.0	3.1	6.7	45	25	55	719
9/12/2018 10:00	43	68	49	46	39	0.0	2.2	5.4	90	25	54	719
9/12/2018 10:15	44	64	51	47	39	0.0	2.7	6.3	90	25	54	718
9/12/2018 10:30	43	61	51	47	38	0.0	2.7	5.4	68	26	53	718
9/12/2018 10:45	42	60	49	44	37	0.0	2.2	6.3	90	26	51	718
9/12/2018 11:00	43	62	51	45	38	0.0	2.2	5.4	90	26	51	718
9/12/2018 11:15	44	65	52	47	39	0.0	2.7	5.8	68	27	51	718
9/12/2018 11:30	44	59	51	47	39	0.0	2.2	5.8	68	26	51	718
9/12/2018 11:45	43	56	50	46	40	0.0	2.2	6.3	68	27	51	718
9/12/2018 12:00	45	56	52	48	40	0.0	2.2	5.8	90	26	52	718
9/12/2018 12:15	47	65	55	50	40	0.0	1.8	4.9	68	27	50	718
9/12/2018 12:30	45	67	54	47	39	0.0	2.7	6.7	45	27	51	718
9/12/2018 12:45	46	61	54	49	40	0.0	2.2	5.4	68	28	50	718
9/12/2018 13:00	46	61	55	50	39	0.0	2.2	4.9	45	27	48	717
9/12/2018 13:15	46	59	54	49	38	0.0	1.8	4.9	68	28	47	717
9/12/2018 13:30	45	60	53	48	40	0.0	1.8	5.8	68	28	45	717
9/12/2018 13:45	43	57	51	46	38	0.0	1.8	5.4	90	28	46	717
9/12/2018 14:00	48	70	57	48	39	0.0	1.8	5.8	90	27	47	717
9/12/2018 14:15	77	96	90	81	38	0.0	1.8	4.9	90	28	46	717
9/12/2018 14:30	77	96	90	79	42	0.0	1.8	4.9	90	28	43	717
9/12/2018 14:45	45	70	53	46	37	0.0	1.8	4.0	90	29	43	717

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018 15:00	47	71	55	50	36	0.0	2.2	7.2	68	28	44	717
9/12/2018 15:15	45	58	52	48	39	0.0	1.3	4.9	90	29	41	717
9/12/2018 15:30	46	59	53	49	41	0.0	1.8	4.9	113	29	42	716
9/12/2018 15:45	46	61	53	49	40	0.0	2.2	4.9	68	28	42	716
9/12/2018 16:00	46	65	52	48	41	0.0	2.2	6.3	68	28	42	716
9/12/2018 16:15	46	62	52	49	40	0.0	2.2	5.8	68	28	44	716
9/12/2018 16:30	47	66	57	50	40	0.0	2.2	5.4	90	28	43	716
9/12/2018 16:45	48	77	56	49	40	0.0	2.7	5.8	68	27	45	716
9/12/2018 17:00	48	63	56	51	41	0.0	2.2	5.4	90	27	45	716
9/12/2018 17:15	49	61	57	53	42	0.0	2.2	5.8	68	26	47	716
9/12/2018 17:30	49	65	58	52	41	0.0	2.2	5.4	68	26	48	716
9/12/2018 17:45	48	65	57	52	39	0.0	2.2	5.4	68	26	51	716
9/12/2018 18:00	47	61	55	50	40	0.0	2.7	5.4	45	25	54	716
9/12/2018 18:15	47	64	56	51	39	0.0	2.2	5.8	68	24	56	717
9/12/2018 18:30	48	62	56	51	41	0.0	2.2	5.4	68	23	59	717
9/12/2018 18:45	50	63	59	54	40	0.0	2.7	6.7	68	23	62	717
9/12/2018 19:00	56	63	60	57	54	0.0	2.2	4.9	68	22	64	717
9/12/2018 19:15	51	58	56	54	45	0.0	2.2	6.3	68	22	64	717
9/12/2018 19:30	49	62	58	53	42	0.0	2.2	4.5	68	22	65	717
9/12/2018 19:45	48	60	56	51	41	0.0	1.8	4.9	68	21	66	717
9/12/2018 20:00	54	83	57	50	39	0.0	1.8	4.5	68	21	68	717
9/12/2018 20:15	48	62	57	52	40	0.0	1.8	5.8	68	21	70	717
9/12/2018 20:30	49	76	59	51	39	0.0	2.2	5.4	68	21	70	717
9/12/2018 20:45	47	63	56	50	39	0.0	1.8	5.4	68	20	71	717
9/12/2018 21:00	46	60	55	50	38	0.0	2.2	4.9	68	20	72	717
9/12/2018 21:15	47	63	57	51	39	0.0	1.8	4.5	68	20	73	718
9/12/2018 21:30	46	60	57	49	36	0.0	1.8	4.9	68	20	75	718
9/12/2018 21:45	45	62	55	48	36	0.0	1.8	4.9	68	19	75	718
9/12/2018 22:00	44	60	55	47	34	0.0	1.3	4.0	90	19	76	718
9/12/2018 22:15	44	59	55	49	33	0.0	1.3	3.6	90	19	77	718
9/12/2018 22:30	43	59	55	46	32	0.0	1.8	4.0	90	19	78	718
9/12/2018 22:45	42	58	54	46	31	0.0	1.3	4.0	90	18	80	718
9/12/2018 23:00	42	58	53	46	31	0.0	1.8	4.9	68	18	80	718
9/12/2018 23:15	41	57	51	45	31	0.0	1.8	4.9	68	18	81	718
9/12/2018 23:30	39	59	49	41	29	0.0	1.3	2.7	90	18	83	718
9/12/2018 23:45	38	56	49	38	30	0.0	1.3	4.0	90	18	84	718
10/12/2018 0:00	39	55	50	42	31	0.0	1.3	3.1	90	17	85	718
10/12/2018 0:15	41	60	50	45	30	0.0	0.4	2.2	90	17	86	718
10/12/2018 0:30	37	49	44	40	31	0.0	0.4	2.7	90	17	86	717
10/12/2018 0:45	36	50	44	39	30	0.0	0.4	2.2	113	17	86	717
10/12/2018 1:00	40	55	51	43	30	0.0	0.0	1.3	90	17	86	717
10/12/2018 1:15	42	60	54	45	30	0.0	0.4	2.7	90	17	87	717
10/12/2018 1:30	40	58	53	40	30	0.0	0.4	2.2	90	17	88	717
10/12/2018 1:45	35	50	43	37	30	0.0	0.4	1.8	90	17	88	717
10/12/2018 2:00	37	54	46	40	30	0.0	0.4	2.2	90	17	89	717
10/12/2018 2:15	34	49	44	36	31	0.0	0.0	1.8	90	17	89	717
10/12/2018 2:30	41	59	54	41	31	0.0	0.0	1.3	113	17	90	716
10/12/2018 2:45	38	59	50	38	31	0.0	0.0	1.8	90	16	89	717
10/12/2018 3:00	36	51	43	37	31	0.0	0.0	1.3	113	16	90	716
10/12/2018 3:15	39	56	50	43	31	0.0	0.0	1.3	113	16	91	716
10/12/2018 3:30	43	61	53	47	32	0.0	0.0	0.9	113	17	90	716
10/12/2018 3:45	42	53	50	46	33	0.0	0.0	0.9	113	17	90	716
10/12/2018 4:00	40	54	49	44	33	0.0	0.0	0.9	113	17	90	716
10/12/2018 4:15	50	63	59	54	36	0.0	0.0	1.3	113	17	90	716
10/12/2018 4:30	50	66	59	54	39	0.0	0.0	0.4	113	17	89	717
10/12/2018 4:45	51	70	63	53	39	0.0	0.0	0.9	113	17	88	717
10/12/2018 5:00	51	70	60	55	39	0.0	0.0	0.4	113	17	88	717
10/12/2018 5:15	48	66	58	50	40	0.0	0.0	0.4	113	17	88	717
10/12/2018 5:30	49	72	57	50	40	0.0	0.0	0.0	0	18	88	717
10/12/2018 5:45	46	62	55	49	40	0.0	0.0	1.3	113	18	85	717
10/12/2018 6:00	48	66	55	50	41	0.0	0.4	2.2	113	19	84	717
10/12/2018 6:15	48	63	58	51	41	0.0	0.4	2.2	113	20	81	717
10/12/2018 6:30	46	62	53	49	40	0.0	0.9	2.7	90	20	79	717
10/12/2018 6:45	48	63	55	51	41	0.0	0.9	4.0	113	20	79	717
10/12/2018 7:00	47	58	53	50	42	0.0	1.3	4.5	90	20	77	717
10/12/2018 7:15	47	57	54	50	42	0.0	1.3	3.6	90	21	74	718
10/12/2018 7:30	46	57	53	49	41	0.0	1.8	3.6	68	22	72	718
10/12/2018 7:45	50	65	59	53	42	0.0	1.3	4.0	90	21	71	718
10/12/2018 8:00	50	71	57	53	40	0.0	1.3	4.9	90	23	65	718
10/12/2018 8:15	46	58	53	50	40	0.0	1.8	4.9	68	23	67	718

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	8:30	48	59	55	52	41	0.0	1.8	4.0	90	23	67	718
10/12/2018	8:45	49	61	56	52	42	0.0	1.3	4.0	90	24	61	718
10/12/2018	9:00	48	59	56	51	41	0.0	1.8	4.5	90	24	60	718
10/12/2018	9:15	48	61	56	52	41	0.0	1.8	4.5	90	24	60	717
10/12/2018	9:30	48	62	57	52	40	0.0	1.3	4.5	90	25	59	717
10/12/2018	9:45	47	77	54	47	37	0.0	1.3	4.5	90	25	57	717
10/12/2018	10:00	42	53	49	45	37	0.0	1.3	4.0	90	25	57	717
10/12/2018	10:15	46	58	53	50	39	0.0	1.3	4.0	90	27	51	717
10/12/2018	10:30	43	56	52	46	36	0.0	1.8	4.9	113	26	52	717
10/12/2018	10:45	41	56	49	44	35	0.0	0.9	4.0	90	26	51	717
10/12/2018	11:00	44	55	51	48	37	0.0	0.9	4.0	90	27	49	717
10/12/2018	11:15	45	62	56	47	38	0.0	1.3	4.0	113	28	47	717
10/12/2018	11:30	42	60	50	45	36	0.0	1.3	4.0	113	28	47	717
10/12/2018	11:45	44	63	55	48	35	0.0	1.3	4.9	113	29	44	717
10/12/2018	12:00	40	55	48	43	32	0.0	1.3	3.6	113	29	44	717
10/12/2018	12:15	40	53	47	43	36	0.0	1.3	4.5	113	29	43	717
10/12/2018	12:30	46	69	59	46	36	0.0	1.3	4.0	90	29	44	717
10/12/2018	12:45	43	58	51	47	35	0.0	1.3	4.5	113	30	39	717
10/12/2018	13:00	47	67	58	49	36	0.0	1.3	4.5	113	30	41	716
10/12/2018	13:15	44	56	51	47	37	0.0	1.3	4.0	113	30	41	716
10/12/2018	13:30	40	55	48	44	35	0.0	0.9	3.6	113	30	39	716
10/12/2018	13:45	41	55	48	44	37	0.0	1.3	4.0	90	30	40	716
10/12/2018	14:00	43	54	50	46	35	0.0	0.9	3.1	90	31	39	716
10/12/2018	14:15	46	69	53	48	38	0.0	1.3	5.4	113	30	40	716
10/12/2018	14:30	47	62	56	51	39	0.0	1.3	3.6	90	30	41	715
10/12/2018	14:45	46	58	54	50	39	0.0	1.8	4.9	68	30	39	715
10/12/2018	15:00	46	57	54	49	39	0.0	1.3	5.4	90	31	39	715
10/12/2018	15:15	49	62	58	52	43	0.0	1.8	4.9	68	30	40	715
10/12/2018	15:30	48	63	56	51	41	0.0	1.3	3.6	90	31	39	715
10/12/2018	15:45	49	63	58	52	41	0.0	1.8	4.9	90	30	41	715
10/12/2018	16:00	48	60	55	51	40	0.0	2.2	5.4	68	30	41	715
10/12/2018	16:15	49	64	58	52	41	0.0	1.8	4.0	90	29	41	715
10/12/2018	16:30	48	59	55	51	41	0.0	2.2	4.5	68	29	42	715
10/12/2018	16:45	49	63	57	52	41	0.0	1.8	5.8	90	29	43	715
10/12/2018	17:00	50	65	58	53	43	0.0	1.8	5.4	68	29	43	715
10/12/2018	17:15	51	70	60	54	43	0.0	2.2	5.8	68	28	43	715
10/12/2018	17:30	51	67	59	54	42	0.0	2.2	4.5	68	28	43	715
10/12/2018	17:45	52	68	62	55	41	0.0	1.8	4.5	68	28	44	715
10/12/2018	18:00	53	69	62	56	42	0.0	1.8	4.5	68	27	45	715
10/12/2018	18:15	53	64	60	56	46	0.0	1.8	3.6	68	27	45	715
10/12/2018	18:30	52	67	60	55	44	0.0	1.3	3.1	90	26	47	715
10/12/2018	18:45	50	64	57	53	43	0.0	0.9	2.7	90	26	49	715
10/12/2018	19:00	56	68	60	57	54	0.0	1.3	3.1	90	25	50	716
10/12/2018	19:15	53	71	59	55	48	0.0	0.9	4.0	90	25	53	716
10/12/2018	19:30	49	71	58	53	42	0.0	1.8	3.6	90	25	54	716
10/12/2018	19:45	46	63	56	49	38	0.0	1.8	4.9	68	24	57	716
10/12/2018	20:00	48	65	56	51	39	0.0	1.8	4.5	68	24	59	716
10/12/2018	20:15	47	62	57	50	38	0.0	2.2	5.4	68	23	61	716
10/12/2018	20:30	49	64	61	53	37	0.0	2.2	6.3	68	23	64	716
10/12/2018	20:45	48	62	58	53	37	0.0	2.2	4.9	68	23	66	716
10/12/2018	21:00	46	61	57	50	36	0.0	2.2	4.9	68	22	68	716
10/12/2018	21:15	47	63	58	52	35	0.0	2.2	4.9	68	22	69	716
10/12/2018	21:30	46	63	56	50	36	0.0	2.2	4.9	68	21	70	716
10/12/2018	21:45	54	83	62	49	34	0.0	2.2	5.8	68	21	71	717
10/12/2018	22:00	48	64	57	52	35	0.0	1.8	4.5	68	21	72	717
10/12/2018	22:15	48	60	57	53	35	0.0	1.8	4.5	68	20	73	717
10/12/2018	22:30	46	60	56	51	35	0.0	1.3	4.0	90	20	75	717
10/12/2018	22:45	46	59	56	50	37	0.0	1.3	4.0	90	20	76	717
10/12/2018	23:00	43	57	52	45	34	0.0	1.8	4.0	90	20	77	717
10/12/2018	23:15	47	63	58	51	35	0.0	0.9	3.6	90	19	78	717
10/12/2018	23:30	47	62	59	51	33	0.0	0.0	1.8	90	19	80	717
10/12/2018	23:45	48	62	59	52	34	0.0	0.4	2.2	90	19	80	717
11/12/2018	0:00	45	59	56	48	33	0.0	0.4	2.2	90	18	81	717
11/12/2018	0:15	44	59	55	49	32	0.0	0.4	2.2	90	18	82	717
11/12/2018	0:30	42	56	53	45	32	0.0	0.9	2.7	90	18	83	716
11/12/2018	0:45	45	59	56	49	31	0.0	0.9	3.1	90	18	85	716
11/12/2018	1:00	43	59	53	48	32	0.0	0.9	2.7	90	18	86	716
11/12/2018	1:15	46	63	58	49	32	0.0	0.9	2.7	90	17	86	716
11/12/2018	1:30	42	58	55	43	31	0.0	0.4	2.2	90	17	87	716
11/12/2018	1:45	45	61	57	48	30	0.0	0.9	2.2	90	17	88	716

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	2:00	42	61	55	43	29	0.0	0.9	1.8	90	17	88	716
11/12/2018	2:15	40	58	52	43	29	0.0	0.9	2.2	90	17	89	716
11/12/2018	2:30	42	60	57	40	29	0.0	0.4	3.1	90	17	89	716
11/12/2018	2:45	44	61	56	48	30	0.0	0.4	1.8	90	17	89	716
11/12/2018	3:00	46	60	57	51	29	0.0	0.4	1.8	90	17	90	716
11/12/2018	3:15	44	61	57	48	29	0.0	0.0	1.8	90	17	90	716
11/12/2018	3:30	46	61	58	49	30	0.0	0.0	0.9	113	16	91	716
11/12/2018	3:45	48	62	59	53	30	0.0	0.0	0.4	113	16	91	716
11/12/2018	4:00	51	64	60	56	32	0.0	0.0	0.9	113	16	92	716
11/12/2018	4:15	52	64	60	56	40	0.0	0.0	1.3	113	16	92	716
11/12/2018	4:30	53	67	60	57	41	0.0	0.0	0.4	113	15	92	716
11/12/2018	4:45	51	67	60	54	41	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:00	52	75	63	54	41	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:15	50	71	58	53	41	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:30	50	62	57	53	43	0.0	0.0	0.4	113	15	93	717
11/12/2018	5:45	49	60	57	52	43	0.0	0.0	0.9	90	17	89	717
11/12/2018	6:00	49	59	56	53	44	0.0	0.4	1.8	90	19	83	717
11/12/2018	6:15	49	63	57	52	41	0.0	0.9	2.2	90	20	80	717
11/12/2018	6:30	48	64	56	51	40	0.0	0.9	2.7	90	20	77	717
11/12/2018	6:45	49	65	61	51	39	0.0	1.3	3.1	90	21	74	717
11/12/2018	7:00	49	71	59	51	40	0.0	1.3	3.1	90	22	72	717
11/12/2018	7:15	50	72	63	51	41	0.0	1.3	3.6	90	22	69	717
11/12/2018	7:30	48	65	56	51	42	0.0	1.3	4.0	90	22	68	717
11/12/2018	7:45	47	58	55	50	39	0.0	1.3	3.1	90	23	64	717
11/12/2018	8:00	47	62	53	50	39	0.0	0.9	3.6	90	23	64	717
11/12/2018	8:15	48	60	56	51	41	0.0	0.9	3.1	90	24	61	718
11/12/2018	8:30	44	55	51	47	39	0.0	0.9	3.1	90	25	59	718
11/12/2018	8:45	43	60	51	46	37	0.0	0.4	2.7	90	26	57	717
11/12/2018	9:00	44	66	51	46	38	0.0	1.3	4.0	113	25	55	718
11/12/2018	9:15	42	54	49	45	36	0.0	1.3	3.6	90	25	56	717
11/12/2018	9:30	44	60	50	47	39	0.0	1.3	4.0	90	26	55	717
11/12/2018	9:45	44	60	53	48	36	0.0	1.3	5.8	90	27	51	717
11/12/2018	10:00	43	58	51	46	38	0.0	1.3	5.8	113	27	50	718
11/12/2018	10:15	47	59	56	50	39	0.0	1.3	4.0	90	27	51	717
11/12/2018	10:30	43	55	51	46	37	0.0	1.3	4.5	90	28	47	717
11/12/2018	10:45	46	61	56	49	36	0.0	1.3	4.0	68	28	47	717
11/12/2018	11:00	46	65	57	48	38	0.0	1.8	4.5	90	28	47	717
11/12/2018	11:15	43	54	49	46	38	0.0	1.3	5.4	90	29	45	717
11/12/2018	11:30	44	57	52	47	38	0.0	1.3	3.6	90	29	42	717
11/12/2018	11:45	47	61	57	50	40	0.0	1.3	4.0	90	29	42	717
11/12/2018	12:00	45	58	54	49	38	0.0	1.8	4.9	90	29	44	717
11/12/2018	12:15	47	62	55	51	37	0.0	1.3	4.5	90	29	43	717
11/12/2018	12:30	44	56	52	47	38	0.0	1.3	4.9	90	30	42	717
11/12/2018	12:45	45	57	55	49	38	0.0	1.8	4.5	90	30	40	716
11/12/2018	13:00	45	60	55	48	38	0.0	1.3	4.9	90	30	40	716
11/12/2018	13:15	45	62	53	47	38	0.0	1.8	5.4	90	30	41	716
11/12/2018	13:30	44	57	51	47	38	0.0	1.3	4.9	113	30	40	716
11/12/2018	13:45	45	56	53	49	39	0.0	2.2	5.8	68	30	40	716
11/12/2018	14:00	44	58	52	46	38	0.0	1.8	4.9	90	31	39	716
11/12/2018	14:15	48	68	61	48	38	0.0	1.8	5.4	90	31	40	716
11/12/2018	14:30	45	57	52	48	39	0.0	2.2	6.3	90	30	40	715
11/12/2018	14:45	44	55	52	47	39	0.0	1.8	4.9	90	30	41	715
11/12/2018	15:00	46	59	53	49	40	0.0	1.8	5.4	113	30	39	715
11/12/2018	15:15	47	58	53	50	41	0.0	1.8	4.5	90	30	40	715
11/12/2018	15:30	46	64	53	49	40	0.0	2.2	6.7	90	29	40	715
11/12/2018	15:45	46	56	53	49	40	0.0	2.2	5.4	68	29	40	715
11/12/2018	16:00	46	57	53	49	39	0.0	2.2	4.9	68	30	40	715
11/12/2018	16:15	45	56	52	47	39	0.0	1.8	5.4	90	30	40	714
11/12/2018	16:30	48	60	56	51	42	0.0	2.2	5.8	90	29	40	714
11/12/2018	16:45	49	65	58	53	41	0.0	2.2	4.9	68	29	41	715
11/12/2018	17:00	49	62	58	53	42	0.0	2.2	5.8	68	29	42	715
11/12/2018	17:15	50	66	58	53	43	0.0	2.2	4.9	68	29	42	715
11/12/2018	17:30	50	65	57	53	44	0.0	2.2	6.3	68	28	44	715
11/12/2018	17:45	51	62	58	55	43	0.0	2.2	5.8	45	27	46	715
11/12/2018	18:00	52	76	58	53	42	0.0	2.2	6.3	45	27	48	715
11/12/2018	18:15	53	73	62	55	44	0.0	2.2	6.3	68	26	50	715
11/12/2018	18:30	50	66	57	53	43	0.0	2.7	5.4	45	26	53	715
11/12/2018	18:45	50	67	58	53	43	0.0	2.7	5.8	68	25	56	715
11/12/2018	19:00	54	61	58	56	49	0.0	2.7	7.2	45	25	57	715
11/12/2018	19:15	53	63	58	55	50	0.0	2.7	5.8	68	24	59	715

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	19:30	49	63	57	53	41	0.0	2.7	6.3	45	24	60	716
11/12/2018	19:45	49	67	60	52	41	0.0	2.7	6.7	68	23	62	716
11/12/2018	20:00	49	62	56	52	41	0.0	2.7	6.3	45	23	64	716
11/12/2018	20:15	46	60	54	50	40	0.0	2.7	6.3	68	23	65	717
11/12/2018	20:30	50	63	59	54	41	0.0	2.7	7.2	68	22	66	717
11/12/2018	20:45	50	78	58	52	40	0.0	2.7	5.8	45	22	68	717
11/12/2018	21:00	48	62	56	51	40	0.0	2.2	4.5	45	21	70	716
11/12/2018	21:15	48	60	56	52	38	0.0	2.7	6.7	45	21	71	717
11/12/2018	21:30	48	61	57	52	38	0.0	2.7	6.3	45	21	73	717
11/12/2018	21:45	45	61	56	49	36	0.0	2.2	5.4	68	21	75	717
11/12/2018	22:00	48	61	56	52	35	0.0	1.8	4.5	68	20	76	717
11/12/2018	22:15	45	56	54	49	35	0.0	1.8	5.8	68	20	77	717
11/12/2018	22:30	46	58	55	50	37	0.0	2.2	5.8	68	20	78	717
11/12/2018	22:45	44	58	54	48	33	0.0	1.8	4.5	68	20	78	717
11/12/2018	23:00	45	58	54	49	33	0.0	1.3	3.6	68	20	79	717
11/12/2018	23:15	45	60	56	49	33	0.0	1.8	4.0	68	19	80	717
11/12/2018	23:30	46	63	56	50	33	0.0	1.3	4.0	68	19	81	717
11/12/2018	23:45	48	63	59	53	37	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:00	44	63	56	46	35	0.0	1.8	4.0	68	19	81	716
12/12/2018	0:15	46	59	56	50	33	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:30	42	56	52	46	31	0.0	0.9	3.1	90	19	81	716
12/12/2018	0:45	43	57	53	47	30	0.0	0.9	3.1	90	19	82	716
12/12/2018	1:00	43	59	54	48	32	0.0	0.9	3.6	90	19	83	716
12/12/2018	1:15	44	59	56	46	31	0.0	0.9	2.2	90	18	84	716
12/12/2018	1:30	44	62	57	46	31	0.0	1.3	4.0	90	18	83	716
12/12/2018	1:45	41	59	52	41	31	0.0	1.8	4.0	90	18	83	715
12/12/2018	2:00	42	62	54	43	33	0.0	1.8	4.5	90	18	83	715
12/12/2018	2:15	45	63	57	49	33	0.0	1.8	4.0	68	18	84	715
12/12/2018	2:30	41	55	51	45	33	0.0	1.8	4.9	68	18	84	715
12/12/2018	2:45	43	59	53	47	32	0.0	1.8	4.0	68	18	85	715
12/12/2018	3:00	47	60	57	52	33	0.0	1.3	4.0	90	18	86	715
12/12/2018	3:15	42	57	52	46	33	0.0	0.4	2.2	113	18	87	715
12/12/2018	3:30	43	57	53	47	35	0.0	0.0	1.3	113	18	87	715
12/12/2018	3:45	47	59	56	51	35	0.0	0.4	1.8	90	17	87	715
12/12/2018	4:00	44	57	54	47	34	0.0	0.9	3.1	90	18	85	715
12/12/2018	4:15	50	61	58	54	37	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:30	49	62	58	53	40	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:45	52	75	61	51	38	0.0	0.0	1.3	90	17	86	715
12/12/2018	5:00	51	79	57	52	40	0.0	0.4	1.8	90	17	86	715
12/12/2018	5:15	48	60	55	51	41	0.0	0.4	2.7	90	17	86	715
12/12/2018	5:30	48	58	55	51	41	0.0	0.4	1.8	113	18	86	715
12/12/2018	5:45	49	70	56	51	43	0.0	0.9	4.5	90	19	83	715
12/12/2018	6:00	47	61	54	50	40	0.0	1.8	3.6	68	19	80	715
12/12/2018	6:15	48	58	55	51	40	0.0	1.8	4.5	68	20	79	715
12/12/2018	6:30	48	61	55	51	41	0.0	1.8	4.5	68	20	78	715
12/12/2018	6:45	48	68	56	52	40	0.0	1.3	4.5	90	20	76	716
12/12/2018	7:00	49	65	57	52	41	0.0	1.8	4.0	68	21	73	716
12/12/2018	7:15	49	60	56	52	42	0.0	1.3	4.0	90	22	70	716
12/12/2018	7:30	48	64	55	51	42	0.0	1.3	4.5	90	22	67	716
12/12/2018	7:45	47	58	53	50	41	0.0	1.3	4.0	90	23	65	716
12/12/2018	8:00	48	66	55	51	42	0.0	1.3	3.1	90	23	64	716
12/12/2018	8:15	48	60	55	51	43	0.0	1.3	3.1	90	24	60	716
12/12/2018	8:30	48	58	55	52	41	0.0	1.3	4.5	90	24	61	716
12/12/2018	8:45	49	69	57	52	42	0.0	1.8	4.0	68	25	57	716
12/12/2018	9:00	47	61	54	50	40	0.0	1.8	4.9	90	25	55	716
12/12/2018	9:15	46	64	52	49	40	0.0	1.8	5.4	90	25	54	716
12/12/2018	9:30	45	62	52	49	39	0.0	1.8	4.9	90	26	52	716
12/12/2018	9:45	46	56	52	48	40	0.0	1.8	4.9	90	26	53	716
12/12/2018	10:00	46	65	52	49	39	0.0	1.3	4.5	90	27	52	716
12/12/2018	10:15	46	56	52	49	39	0.0	1.8	4.0	90	27	48	716
12/12/2018	10:30	46	56	52	49	40	0.0	1.3	5.4	113	27	48	716
12/12/2018	10:45	47	59	54	50	39	0.0	1.3	4.5	90	28	47	716
12/12/2018	11:00	46	57	52	48	40	0.0	1.3	4.5	90	28	46	715
12/12/2018	11:15	46	61	56	48	40	0.0	1.3	3.1	90	29	43	715
12/12/2018	11:30	47	60	56	51	38	0.0	1.3	4.5	90	29	44	715
12/12/2018	11:45	45	56	53	48	36	0.0	1.8	4.0	90	30	41	715
12/12/2018	12:00	46	70	55	47	38	0.0	1.3	4.5	90	30	41	715
12/12/2018	12:15	43	58	52	46	36	0.0	0.9	4.5	90	31	40	715
12/12/2018	12:30	43	59	52	47	35	0.0	1.8	4.5	90	31	40	714
12/12/2018	12:45	41	56	49	44	36	0.0	1.3	4.0	90	31	40	714

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018	13:00	45	57	53	48	38	0.0	1.3	4.9	113	31	39	714
12/12/2018	13:15	44	57	53	47	35	0.0	1.3	4.0	90	32	38	714
12/12/2018	13:30	44	61	52	46	38	0.0	1.3	4.5	90	32	38	714
12/12/2018	13:45	44	56	52	48	37	0.0	1.3	3.6	113	32	39	714
12/12/2018	14:00	45	58	54	49	38	0.0	1.8	4.5	90	32	40	713
12/12/2018	14:15	43	55	49	45	38	0.0	1.8	4.9	90	32	38	713
12/12/2018	14:30	46	62	56	49	39	0.0	1.8	4.9	90	31	39	713
12/12/2018	14:45	42	53	49	45	38	0.0	1.8	5.4	113	31	39	713
12/12/2018	15:00	45	57	52	48	39	0.0	1.8	4.5	90	32	39	713
12/12/2018	15:15	45	58	54	48	38	0.0	1.3	3.6	90	32	38	713
12/12/2018	15:30	48	62	57	51	40	0.0	1.3	5.4	90	32	39	713
12/12/2018	15:45	46	59	53	49	39	0.0	1.3	3.6	113	31	39	713
12/12/2018	16:00	48	66	59	50	40	0.0	1.3	4.0	90	31	40	713
12/12/2018	16:15	51	75	62	53	41	0.0	1.3	4.0	90	30	41	712
12/12/2018	16:30	48	61	56	51	42	0.0	1.8	4.5	90	30	42	712
12/12/2018	16:45	49	76	57	52	40	0.0	1.8	3.6	90	30	43	712
12/12/2018	17:00	47	60	55	50	42	0.0	1.3	4.9	90	29	43	712
12/12/2018	17:15	47	64	54	50	43	0.0	1.8	4.9	68	29	44	712
12/12/2018	17:30	51	76	56	53	43	0.0	2.7	5.4	68	29	45	712
12/12/2018	17:45	51	74	62	52	43	0.0	2.2	5.8	68	28	46	713
12/12/2018	18:00	49	62	56	52	42	0.0	2.7	5.4	68	28	47	713
12/12/2018	18:15	48	60	56	52	42	0.0	2.7	6.3	68	27	48	713
12/12/2018	18:30	52	77	62	54	44	0.0	2.7	5.8	45	26	51	713
12/12/2018	18:45	51	69	59	54	42	0.0	3.1	7.2	68	26	53	713
12/12/2018	19:00	55	64	59	56	50	0.0	3.1	7.2	45	25	55	713
12/12/2018	19:15	53	61	58	56	49	0.0	3.1	6.7	45	25	57	713
12/12/2018	19:30	49	63	57	52	42	0.0	3.1	7.2	45	24	59	713
12/12/2018	19:45	50	63	60	54	40	0.0	3.1	6.7	45	24	62	713
12/12/2018	20:00	49	67	58	52	40	0.0	3.6	7.2	45	23	63	713
12/12/2018	20:15	49	69	58	53	39	0.0	3.1	6.3	45	23	65	713
12/12/2018	20:30	49	62	59	53	38	0.0	2.2	6.3	45	23	66	713
12/12/2018	20:45	48	62	57	52	39	0.0	2.7	5.8	68	22	67	713
12/12/2018	21:00	47	61	56	51	38	0.0	2.7	5.8	68	22	69	714
12/12/2018	21:15	48	62	58	53	37	0.0	2.7	6.7	45	22	70	713
12/12/2018	21:30	51	78	58	49	37	0.0	2.7	6.3	45	21	72	714
12/12/2018	21:45	46	62	56	50	37	0.0	2.2	5.8	68	21	73	714
12/12/2018	22:00	44	58	53	48	36	0.0	2.2	5.4	68	21	75	714
12/12/2018	22:15	49	61	58	54	36	0.0	2.2	5.8	68	21	76	714
12/12/2018	22:30	46	63	56	49	36	0.0	2.2	6.3	68	21	77	714
12/12/2018	22:45	45	59	55	50	35	0.0	2.2	5.8	68	21	77	714
12/12/2018	23:00	45	63	56	48	36	0.0	1.8	4.9	90	20	77	714
12/12/2018	23:15	44	61	56	49	31	0.0	1.8	4.9	90	20	78	714
12/12/2018	23:30	46	63	58	49	32	0.0	1.3	2.7	90	20	79	714
12/12/2018	23:45	42	59	54	43	33	0.0	1.8	4.5	90	20	82	713
13/12/2018	0:00	41	60	54	42	34	0.0	1.3	3.6	68	20	82	713
13/12/2018	0:15	46	62	57	50	37	0.0	1.3	4.0	68	20	81	713
13/12/2018	0:30	45	65	56	48	36	0.0	0.9	2.7	90	20	81	713
13/12/2018	0:45	43	62	54	44	36	0.0	0.9	3.1	90	19	82	713
13/12/2018	1:00	43	59	53	45	36	0.0	0.9	2.7	90	19	82	713
13/12/2018	1:15	42	58	53	44	35	0.0	1.3	6.3	68	19	83	713
13/12/2018	1:30	46	62	58	50	36	0.0	1.3	4.5	90	19	84	712
13/12/2018	1:45	46	64	57	49	33	0.0	0.9	2.2	90	19	84	713
13/12/2018	2:00	45	61	57	47	35	0.0	0.4	2.7	90	19	84	712
13/12/2018	2:15	42	61	55	41	35	0.0	0.4	1.8	158	19	84	712
13/12/2018	2:30	45	62	56	47	37	0.0	0.9	4.5	90	19	84	711
13/12/2018	2:45	47	60	58	50	37	0.0	2.2	6.3	45	19	84	711
13/12/2018	3:00	47	62	58	51	34	0.0	1.8	5.4	68	19	85	712
13/12/2018	3:15	42	59	54	45	34	0.0	0.0	0.9	158	19	85	712
13/12/2018	3:30	49	64	59	53	35	0.0	0.0	1.3	90	19	86	712
13/12/2018	3:45	45	60	55	49	35	0.0	0.0	0.9	90	19	86	712
13/12/2018	4:00	45	58	55	50	34	0.0	0.0	0.9	90	18	86	712
13/12/2018	4:15	50	62	58	54	39	0.0	0.0	0.4	113	18	86	712
13/12/2018	4:30	51	62	58	55	39	0.0	0.0	0.9	90	18	86	712
13/12/2018	4:45	52	81	60	54	39	0.0	0.0	0.9	90	18	86	712
13/12/2018	5:00	51	67	60	55	40	0.0	0.0	0.4	113	18	87	713
13/12/2018	5:15	55	65	63	59	46	0.0	0.0	0.0	0	18	88	713
13/12/2018	5:30	50	67	58	53	43	0.0	0.0	0.0	0	18	88	713
13/12/2018	5:45	51	83	56	51	40	0.0	0.0	0.4	113	18	87	713
13/12/2018	6:00	50	64	57	53	41	0.0	0.0	0.9	113	19	85	713
13/12/2018	6:15	52	62	59	56	41	0.0	0.9	3.1	0	21	77	713

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
13/12/2018 6:30	54	71	61	57	44	0.0	1.3	3.6	0	22	75	713
13/12/2018 6:45	52	63	60	56	41	0.0	1.3	2.2	90	22	73	713
13/12/2018 7:00	53	65	61	57	45	0.0	0.9	2.2	158	22	74	713
13/12/2018 7:15	53	69	62	57	45	0.0	0.9	2.2	113	22	73	713
13/12/2018 7:30	50	63	57	53	45	0.0	0.4	2.7	90	22	72	713
13/12/2018 7:45	51	69	62	53	41	0.0	0.4	1.3	90	22	71	713
13/12/2018 8:00	49	62	58	52	41	0.0	0.4	1.8	158	22	70	713
13/12/2018 8:15	49	62	57	52	40	0.0	0.4	1.8	90	23	69	713
13/12/2018 8:30	48	65	57	51	41	0.0	0.9	2.7	158	24	66	713
13/12/2018 8:45	49	63	58	52	40	0.0	1.3	3.1	158	25	63	713
13/12/2018 9:00	50	65	58	53	42	0.0	1.3	3.6	90	25	62	713
13/12/2018 9:15	52	64	60	55	42	0.0	1.3	3.6	90	25	61	712
13/12/2018 9:30	54	74	62	57	44	0.0	1.3	3.1	90	25	59	712
13/12/2018 9:45	51	62	59	55	43	0.0	1.3	3.1	90	26	58	712
13/12/2018 10:00	55	70	66	58	46	0.0	1.3	4.5	90	27	55	712
13/12/2018 10:15	54	67	62	57	44	0.0	1.8	3.6	0	27	54	712
13/12/2018 10:30	53	66	61	56	43	0.0	1.3	4.9	90	28	64	712
13/12/2018 10:45	52	64	60	56	45	0.6	0.0	0.0	0	32	53	712
13/12/2018 11:00	54	65	62	58	47	0.0	0.0	0.0	0	33	45	712
13/12/2018 11:15	54	67	63	57	44	1.0	0.0	0.0	0	33	47	712
13/12/2018 11:30	53	67	62	56	44	0.0	0.0	0.0	0	33	48	711
13/12/2018 11:45	53	71	62	56	43	0.0	0.0	0.0	0	33	49	711
13/12/2018 12:00	53	69	62	57	43	0.6	0.0	0.0	0	32	50	709
13/12/2018 12:15	54	67	63	58	42	0.2	0.0	0.0	0	32	48	701
13/12/2018 12:30	53	73	62	56	45	0.2	0.0	0.0	0	32	47	704
13/12/2018 12:45	54	67	62	58	44	0.0	0.0	0.0	0	31	48	705
13/12/2018 13:00	53	65	61	57	45	1.2	0.0	0.0	0	31	48	704
13/12/2018 13:15	53	68	63	56	42	0.2	0.0	0.0	0	31	46	745
13/12/2018 13:30	53	66	61	57	45	0.8	0.0	0.0	0	31	45	745
13/12/2018 13:45	54	66	63	58	45	0.6	0.0	0.0	0	30	45	730
13/12/2018 14:00	53	64	60	56	44	0.0	0.0	0.0	0	30	47	729
13/12/2018 14:15	55	66	64	59	45	0.0	0.0	0.0	0	30	48	729
13/12/2018 14:30	54	67	62	57	44	0.0	0.0	0.0	0	30	49	729
13/12/2018 14:45	53	67	63	57	44	1.4	0.0	0.0	0	30	48	744
13/12/2018 15:00	54	71	64	58	41	0.4	0.0	0.0	0	31	45	741
13/12/2018 15:15	55	68	63	59	47	0.2	0.0	0.0	0	30	42	738
13/12/2018 15:30	54	66	62	58	45	2.4	0.0	0.0	0	30	40	732
13/12/2018 15:45	55	68	63	59	46	1.2	0.0	0.0	0	30	40	707
13/12/2018 16:00	56	67	64	60	47	1.2	0.0	0.0	0	29	39	707
13/12/2018 16:15	55	66	62	58	47	0.0	0.0	0.0	0	29	41	707
13/12/2018 16:30	55	66	63	59	49	0.0	0.0	0.0	0	29	42	707
13/12/2018 16:45	54	64	61	57	44	0.2	0.0	0.0	0	29	43	707
13/12/2018 17:00	55	69	63	59	47	0.2	0.0	0.0	0	29	43	706
13/12/2018 17:15	55	70	62	58	49	0.6	0.0	0.0	0	29	40	699
13/12/2018 17:30	56	67	63	59	48	0.0	0.0	0.0	0	29	40	703
13/12/2018 17:45	56	71	64	59	49	0.0	0.0	0.0	0	29	40	703
13/12/2018 18:00	56	66	63	60	49	0.0	0.0	0.0	0	28	41	703
13/12/2018 18:15	55	67	63	60	46	0.0	0.0	0.0	0	28	41	704
13/12/2018 18:30	54	68	63	58	42	0.0	0.0	0.0	0	28	42	704
13/12/2018 18:45	56	66	63	59	47	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:00	58	69	64	60	54	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:15	56	68	64	60	45	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:30	52	66	63	56	42	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:45	58	72	68	64	45	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:00	48	63	59	51	37	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:15	49	64	58	53	40	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:30	46	61	53	48	41	0.0	0.0	0.0	0	28	43	705
13/12/2018 20:45	41	55	49	45	33	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:00	43	56	51	46	36	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:15	44	57	53	48	37	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:30	43	56	53	46	37	0.0	0.0	0.0	0	28	43	704
13/12/2018 21:45	39	51	46	41	37	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:00	39	50	45	41	36	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:15	39	48	44	41	37	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:30	43	60	55	45	37	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:45	37	52	47	40	30	0.0	0.0	0.0	0	29	43	704
13/12/2018 23:00	40	52	48	43	31	0.0	0.0	0.0	0	28	43	704
13/12/2018 23:15	42	57	51	46	32	0.0	0.0	0.0	0	28	43	704
13/12/2018 23:30	46	60	57	49	32	0.0	0.0	0.0	0	29	43	704
13/12/2018 23:45	44	56	53	49	32	0.0	0.0	0.0	0	28	43	704

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
14/12/2018 0:00	47	62	55	50	38	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:15	43	58	55	46	32	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:30	45	60	55	49	35	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:45	43	63	57	43	33	0.0	0.0	0.0	0	28	43	704
14/12/2018 1:00	42	59	55	42	33	0.0	0.0	0.0	0	28	43	702
14/12/2018 1:15	48	67	62	46	34	0.0	0.0	0.0	0	28	43	703
14/12/2018 1:30	46	61	58	50	34	0.0	0.0	0.0	0	28	43	703
14/12/2018 1:45	45	61	55	48	35	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:00	43	59	54	44	35	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:15	42	57	53	44	35	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:30	47	60	57	51	37	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:45	43	56	52	45	38	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:00	50	67	61	55	41	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:15	47	63	58	49	43	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:30	49	62	59	52	43	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:45	47	61	56	48	43	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:00	51	66	61	54	43	0.0	0.0	0.0	0	28	43	704
14/12/2018 4:15	49	64	58	53	43	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:30	52	66	61	56	43	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:45	53	65	61	56	46	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:00	53	72	60	55	47	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:15	53	65	62	56	44	0.0	0.0	0.0	0	28	43	704
14/12/2018 5:30	53	67	60	56	48	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:45	54	66	61	57	48	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:00	53	66	61	56	45	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:15	53	65	61	56	46	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:30	52	67	62	56	41	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:45	55	65	62	59	46	0.0	0.0	0.0	0	28	44	704
14/12/2018 7:00	54	65	61	57	44	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:15	55	66	64	59	46	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:30	55	68	62	58	49	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:45	56	67	63	60	50	0.6	0.0	0.0	0	27	44	703
14/12/2018 8:00	55	64	62	59	48	0.4	0.0	0.0	0	27	42	701
14/12/2018 8:15	55	64	61	59	48	0.0	0.0	0.0	0	27	41	705
14/12/2018 8:30	55	67	62	59	47	0.2	0.0	0.0	0	27	41	710
14/12/2018 8:45	55	67	63	58	47	0.0	0.0	0.0	0	27	42	710
14/12/2018 9:00	55	66	62	58	47	0.0	0.0	0.0	0	26	43	710
14/12/2018 9:15	55	68	63	58	47	0.8	0.0	0.0	0	26	43	705
14/12/2018 9:30	56	76	64	60	46	0.4	0.0	0.0	0	26	43	707
14/12/2018 9:45	55	68	63	58	47	0.2	0.0	0.0	0	26	43	707

Noise Monitoring Data Sheet

Inland Rail

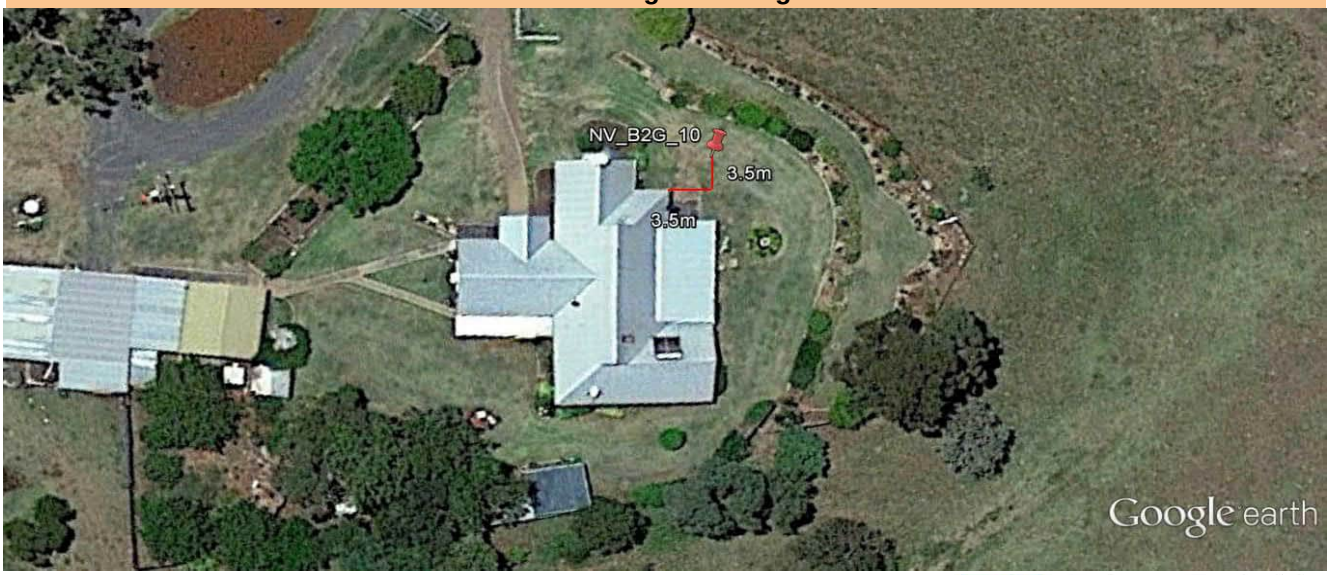
SITE ID

B2G_10

From	Friday 7/12/2018 10:45	Calibrator Type	Quest QC-20	RP Lot#	1RP194766
To	Friday 14/12/2018 10:00	Cal. Serial No.	CA-BNE-04-F-154	Package	Border to Gowrie
Instrument Type	Rion NL-52	Meas. Type	Free Field	Address	96 Wegener Road
Instrument Serial #	00553967	Mic. Height (m)	1.8	Suburb	Athol
Inst. Cal. Date	16/05/2018	Weather Station	No	Land Use	Residential
Pre Calibration	94	Operator	JR	Latitude	27°36'32.25"S
Post Calibration	94	Sample Int.	15 min	Longitude	151°46'6.09"E

Daytime		Evening		Night	
RBL	**34.8 dB(A)**	RBL	**36.3 dB(A)**	RBL	**28.9 dB(A)**
ABLs Day (Mon-Fri 7am - 6 pm)		ABLs Evening (Mon-Fri 6 pm - 10 pm)		ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)	
ABLs Day (Sat 8 am - 1 pm)		ABLs Evening (Sat 1 pm - 10 pm)		ABLs Night (Fri 6pm - 8am)	
		ABLs Evening (Sun 7 am - 10 pm)			
Friday 7/12/2018	41.3 dB(A)	Friday 7/12/2018	36.3 dB(A)	Friday 7/12/2018	32 dB(A)
Saturday 8/12/2018	40.3 dB(A)	Saturday 8/12/2018	33.4 dB(A)	Saturday 8/12/2018	22.4 dB(A)
		Sunday 9/12/2018	37.2 dB(A)	Sunday 9/12/2018	30.4 dB(A)
Monday 10/12/2018	36.5 dB(A)	Monday 10/12/2018	33.8 dB(A)	Monday 10/12/2018	23.0 dB(A)
Tuesday 11/12/2018	34.6 dB(A)	Tuesday 11/12/2018	36.5 dB(A)	Tuesday 11/12/2018	28.9 dB(A)
Wednesday 12/12/2018	34.8 dB(A)	Wednesday 12/12/2018	38.1 dB(A)	Wednesday 12/12/2018	28.9 dB(A)
Thursday 13/12/2018	32.0 dB(A)	Thursday 13/12/2018	31.2 dB(A)	Thursday 13/12/2018	29.1 dB(A)
Friday 14/12/2018	30.5 dB(A)				

Site Diagram - Diagram



Future Freight
Integrating Community, Environment and Engineering

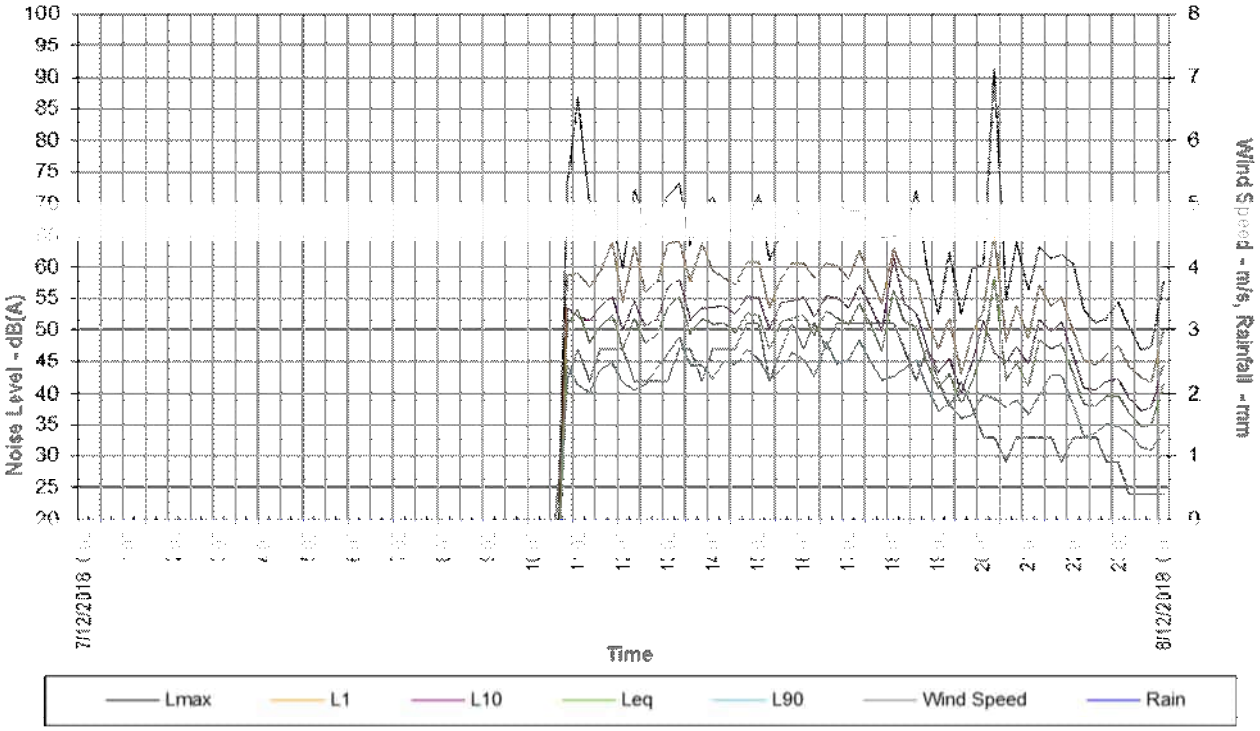
Site Attended Measurements Summary

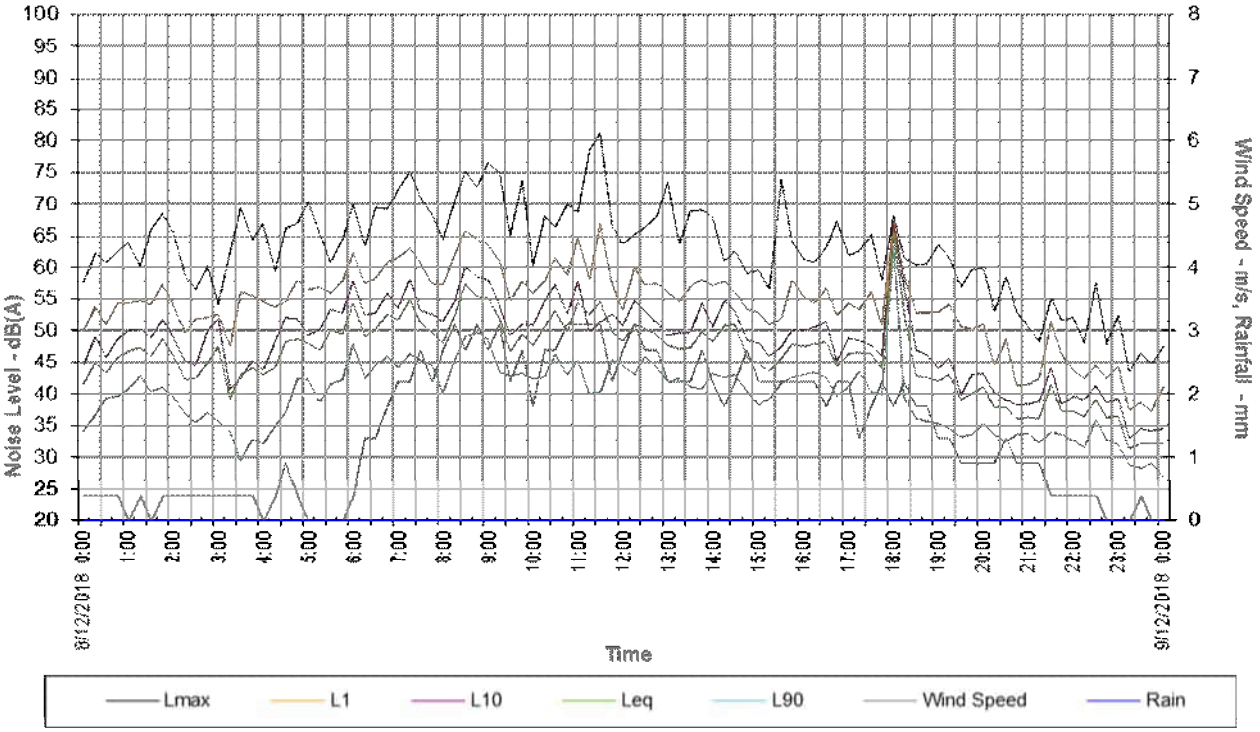
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
7/12/2018	11:30 AM	Attended	85.7	54.6	51.1	43.6	52.3	Pass	11:45 AM
		Logged	67.4	59.3	53.7	43.6	50.5		
		Difference	18.3	-4.7	-2.6	0.0	1.8		
Comments	Difference caused by operator taking a hand held attended measurement. Strong winds noted during measurement. Birds just audible at 45 dB(A). Tractor idling at 50 dB(A). Tractor driving away at 55-85 dB(A)								
14/12/2018	10:45 AM	Attended	57.1	46.6	42.8	33.8	39.9	Pass	11:00 AM
		Logged	-	-	-	-	-		
		Difference	-	-	-	-	-		
Comments	Measurement taken after stopping logger. Background is wind noise and bird noise 36-57 dB(A). Unknown farm equipment in distance barely audible.								

Photos

Site Noise and Weather Graphical Analysis

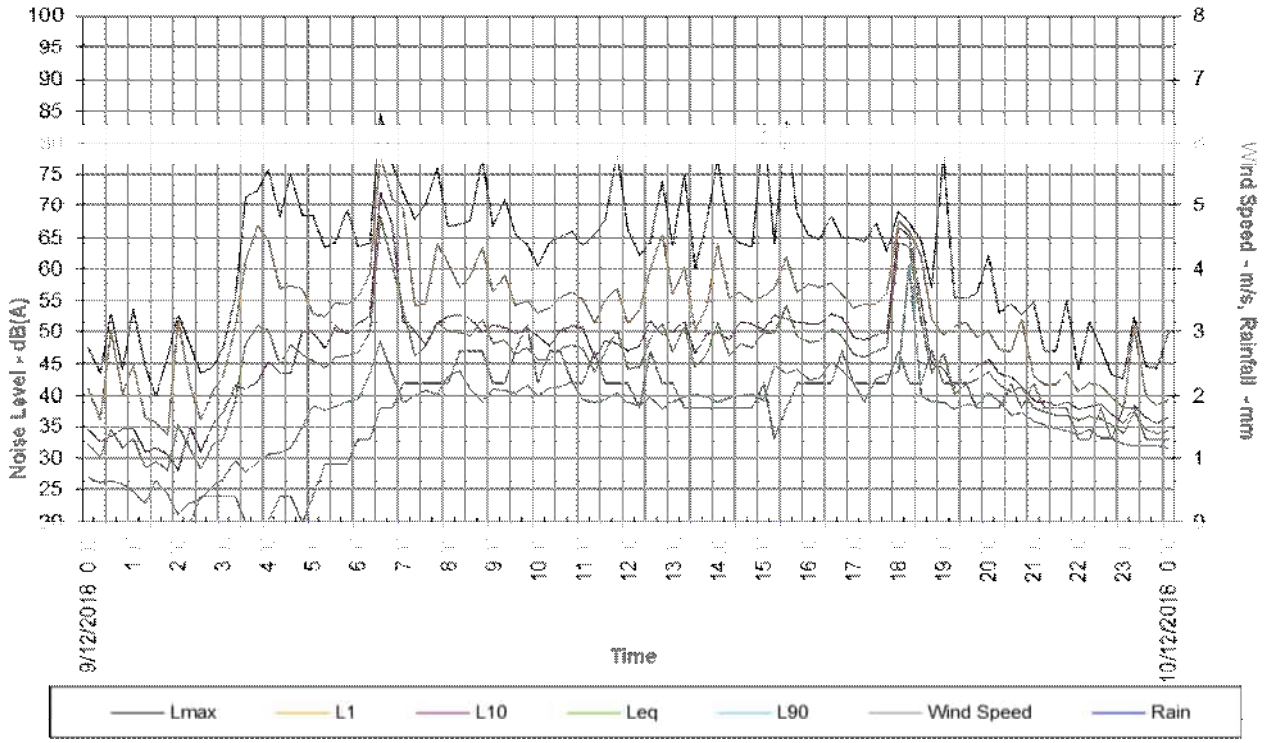
96 Wegener Road

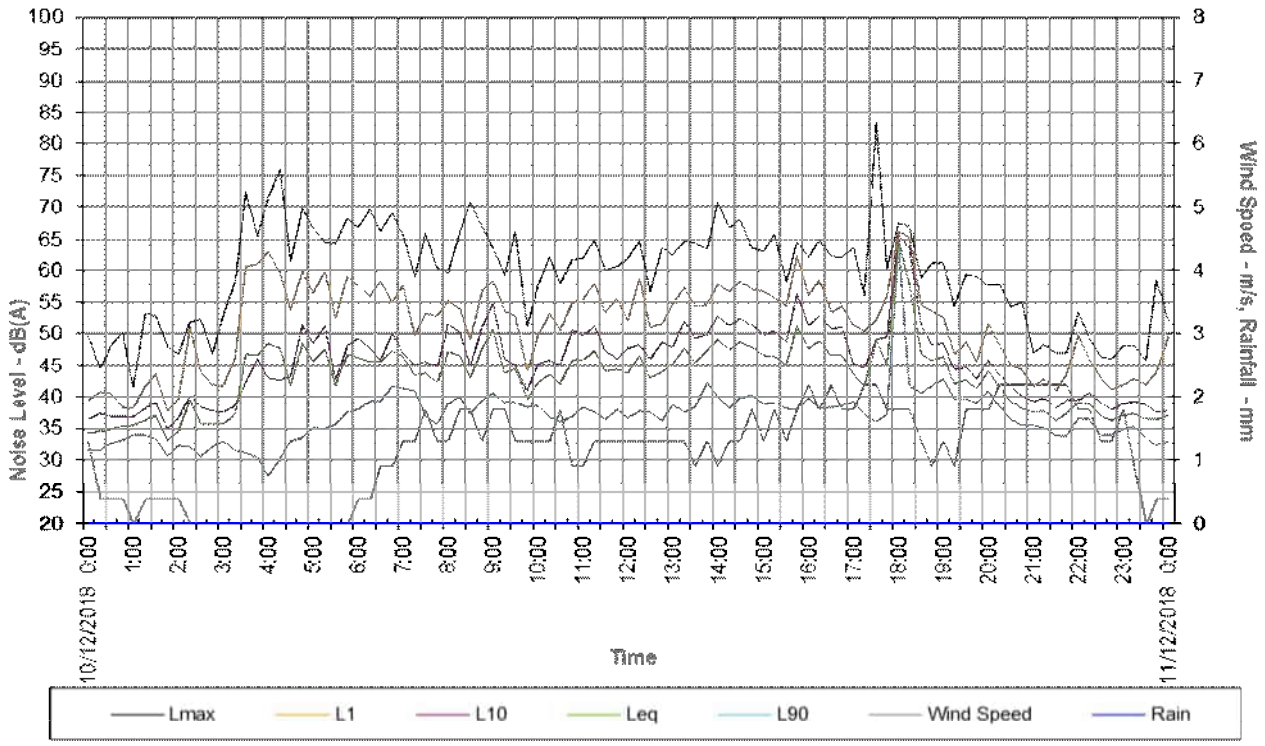




Site Noise and Weather Graphical Analysis

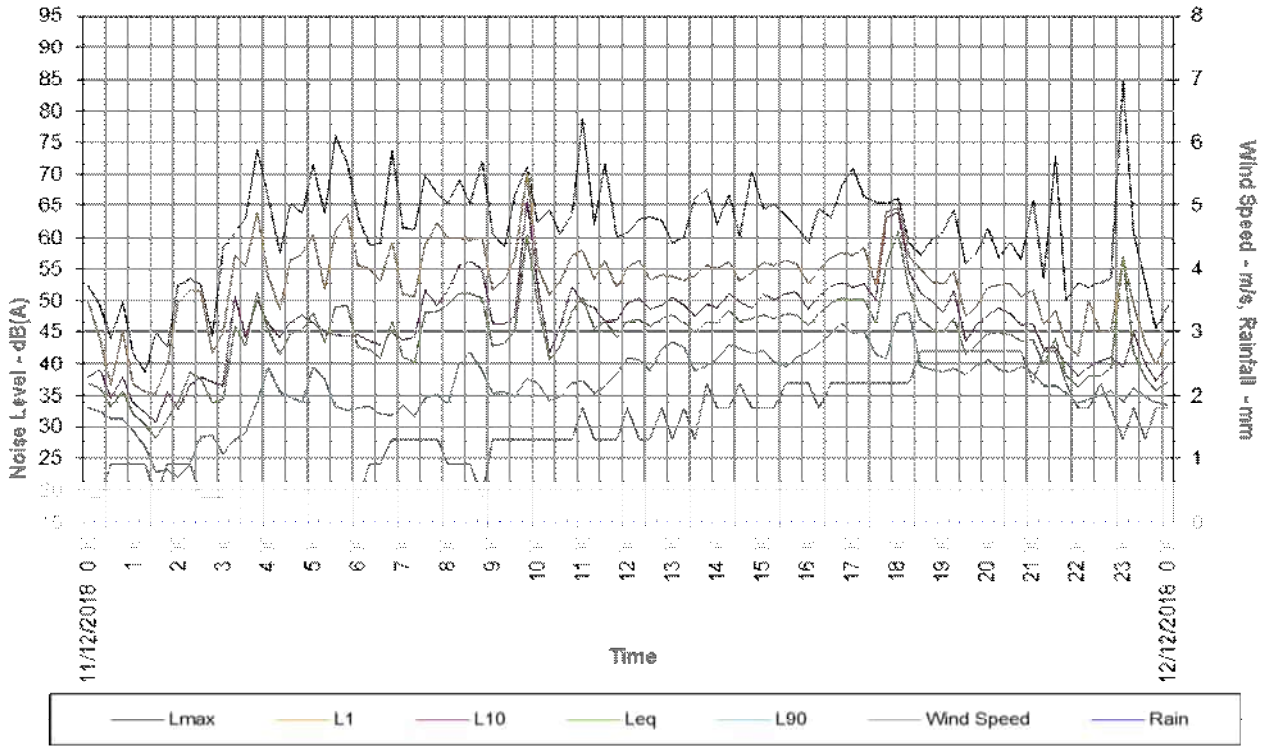
96 Wegener Road

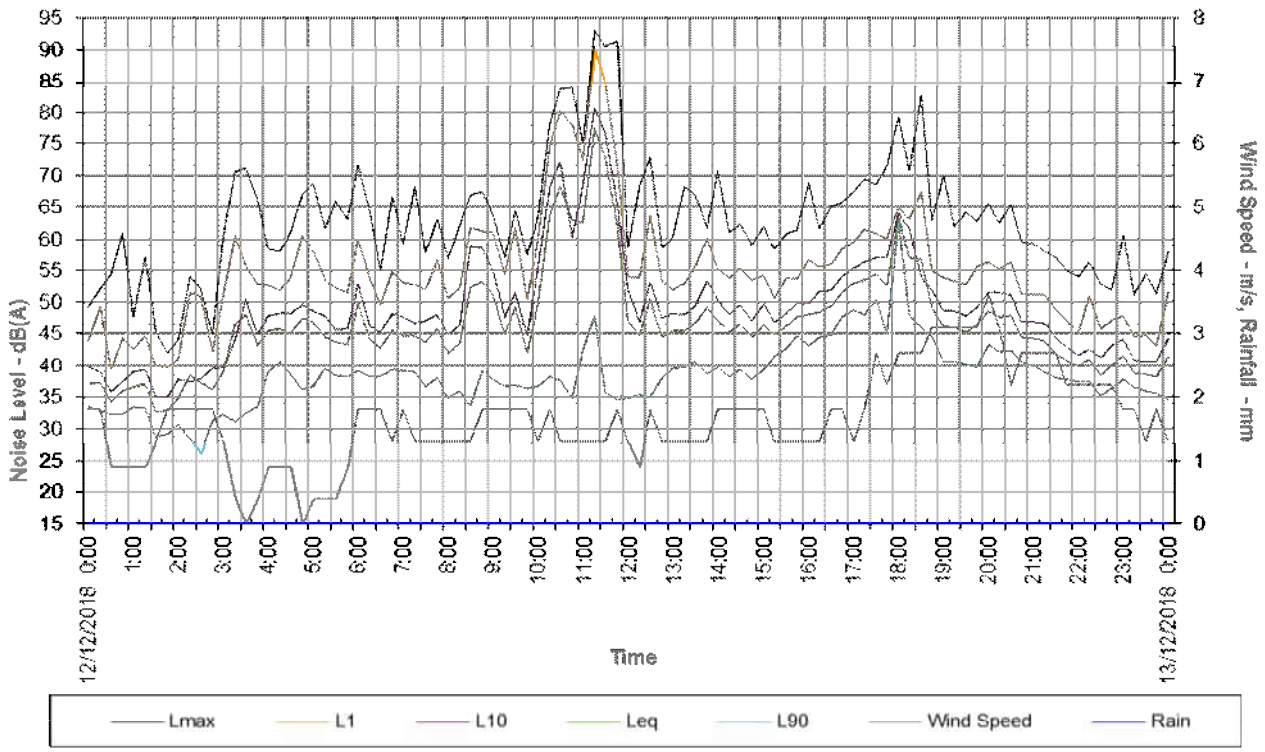




Site Noise and Weather Graphical Analysis

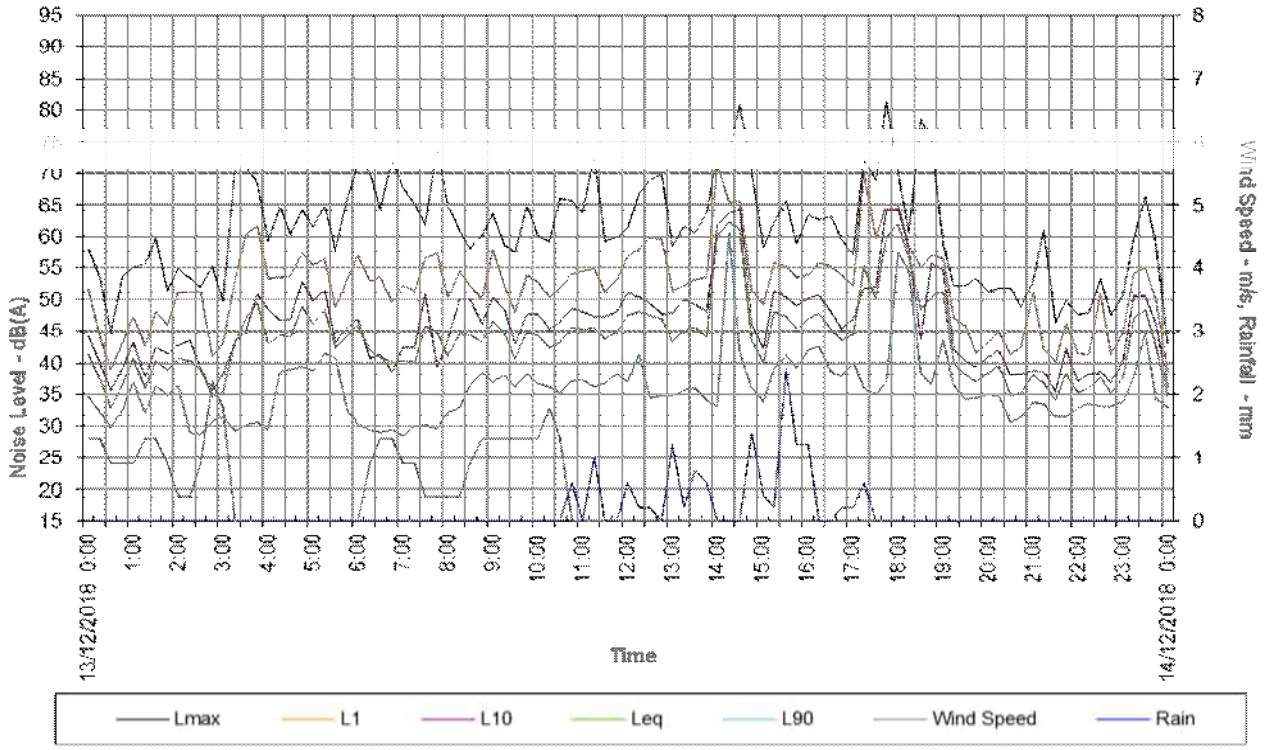
96 Wegener Road

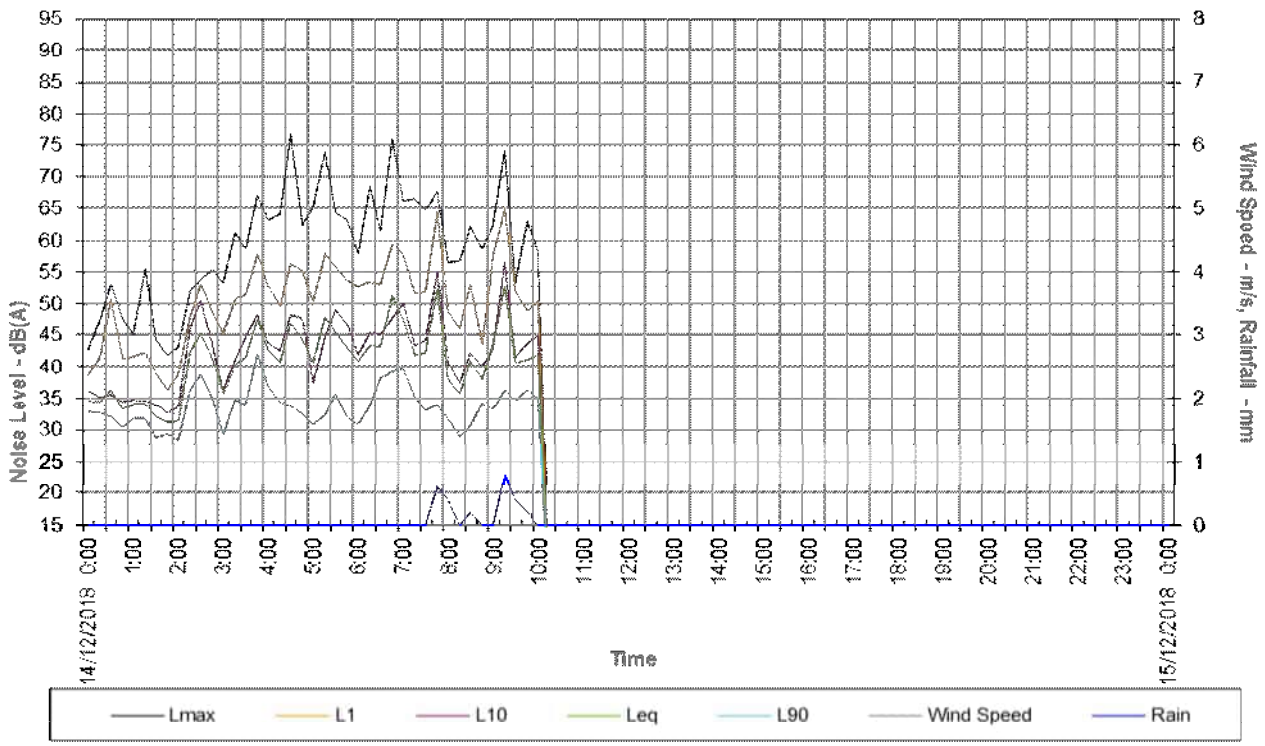




Site Noise and Weather Graphical Analysis

96 Wegener Road





Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018 10:45	51	73	59	54	44	0.0	2.2	5.8	68	24	51	720
7/12/2018 11:00	53	87	59	52	41	0.0	2.7	5.4	68	24	50	720
7/12/2018 11:15	48	70	57	52	40	0.0	2.2	5.8	90	24	48	720
7/12/2018 11:30	51	67	59	54	44	0.0	2.7	5.8	90	24	47	720
7/12/2018 11:45	52	67	64	55	45	0.0	2.7	7.2	90	25	46	720
7/12/2018 12:00	47	60	54	50	42	0.0	2.7	5.4	90	24	47	720
7/12/2018 12:15	52	72	63	55	41	0.0	2.2	5.4	113	25	46	720
7/12/2018 12:30	48	67	56	50	41	0.0	2.2	5.4	90	25	45	720
7/12/2018 12:45	49	69	58	52	44	0.0	2.2	5.4	113	26	44	720
7/12/2018 13:00	54	71	64	57	46	0.0	2.2	6.3	68	25	45	720
7/12/2018 13:15	55	73	64	58	49	0.0	2.7	5.4	90	25	45	719
7/12/2018 13:30	49	63	58	52	44	0.0	2.7	6.3	113	25	44	719
7/12/2018 13:45	52	70	64	53	44	0.0	2.2	5.8	113	26	42	719
7/12/2018 14:00	51	71	60	54	42	0.0	2.7	6.7	90	25	43	719
7/12/2018 14:15	51	66	58	54	45	0.0	2.7	6.3	68	25	46	719
7/12/2018 14:30	50	66	57	52	44	0.0	2.7	5.4	68	24	48	719
7/12/2018 14:45	53	68	61	55	47	0.0	3.1	7.2	45	25	49	719
7/12/2018 15:00	52	71	61	55	45	0.0	3.1	6.3	68	25	47	719
7/12/2018 15:15	47	61	54	50	42	0.0	2.2	6.7	45	25	47	719
7/12/2018 15:30	51	66	58	54	44	0.0	2.7	6.3	68	25	49	718
7/12/2018 15:45	52	70	61	55	47	0.0	3.1	8.0	45	25	48	719
7/12/2018 16:00	52	68	61	55	45	0.0	2.7	8.0	45	24	48	719
7/12/2018 16:15	49	67	58	52	43	0.0	3.1	6.7	45	24	48	718
7/12/2018 16:30	53	69	61	55	48	0.0	2.7	6.3	68	24	50	718
7/12/2018 16:45	52	70	60	55	45	0.0	3.1	6.7	68	24	48	718
7/12/2018 17:00	51	69	58	54	45	0.0	3.1	6.3	45	23	49	718
7/12/2018 17:15	54	69	63	57	48	0.0	3.1	7.2	45	23	52	719
7/12/2018 17:30	51	67	58	54	45	0.0	3.1	7.2	45	22	55	719
7/12/2018 17:45	47	65	54	50	42	0.0	3.1	6.3	90	22	57	719
7/12/2018 18:00	56	65	63	62	43	0.0	3.1	7.2	45	21	59	719
7/12/2018 18:15	51	66	59	54	44	0.0	2.7	6.3	90	21	60	719
7/12/2018 18:30	50	72	58	53	45	0.0	2.2	4.9	90	20	62	719
7/12/2018 18:45	45	60	52	47	41	0.0	2.7	5.8	68	20	64	719
7/12/2018 19:00	41	52	47	43	37	0.0	2.2	6.3	90	20	66	720
7/12/2018 19:15	43	62	52	46	38	0.0	1.8	5.4	90	19	66	720
7/12/2018 19:30	39	53	43	40	36	0.0	2.2	5.4	68	19	68	720
7/12/2018 19:45	42	60	49	45	36	0.0	1.8	4.0	90	18	71	720
7/12/2018 20:00	47	61	53	51	40	0.0	1.3	6.3	113	18	73	720
7/12/2018 20:15	58	91	65	46	39	0.0	1.3	4.0	90	18	74	720
7/12/2018 20:30	42	55	48	45	38	0.0	0.9	3.1	90	18	75	720
7/12/2018 20:45	45	64	54	47	39	0.0	1.3	4.0	90	17	76	720
7/12/2018 21:00	41	56	49	45	37	0.0	1.3	3.1	90	17	76	720
7/12/2018 21:15	48	63	57	52	40	0.0	1.3	3.6	90	17	75	720
7/12/2018 21:30	47	61	54	50	43	0.0	1.3	3.6	113	17	75	720
7/12/2018 21:45	48	62	55	51	43	0.0	0.9	3.1	90	17	75	720
7/12/2018 22:00	43	61	50	46	38	0.0	1.3	3.6	90	17	76	721
7/12/2018 22:15	38	53	45	41	33	0.0	1.3	4.0	90	17	76	720
7/12/2018 22:30	38	51	44	41	34	0.0	1.3	3.6	113	17	77	720
7/12/2018 22:45	40	52	46	42	35	0.0	0.9	3.1	90	16	78	720
7/12/2018 23:00	40	54	48	42	35	0.0	0.9	2.2	113	16	79	720
7/12/2018 23:15	37	51	44	39	34	0.0	0.4	3.1	113	16	79	720
7/12/2018 23:30	35	47	42	37	31	0.0	0.4	2.7	113	16	78	720
7/12/2018 23:45	35	47	42	38	31	0.0	0.4	3.1	113	16	78	720
8/12/2018 0:00	42	58	50	45	34	0.0	0.4	3.1	113	16	77	720
8/12/2018 0:15	45	62	54	49	37	0.0	0.4	2.2	113	16	78	720
8/12/2018 0:30	43	61	51	46	39	0.0	0.4	1.8	113	16	78	720
8/12/2018 0:45	46	63	54	49	40	0.0	0.4	1.8	113	16	78	719
8/12/2018 1:00	47	64	54	50	41	0.0	0.0	1.3	113	16	78	719
8/12/2018 1:15	47	60	55	50	43	0.0	0.4	1.3	113	16	76	719
8/12/2018 1:30	46	66	54	49	40	0.0	0.0	1.3	113	16	77	719
8/12/2018 1:45	49	69	57	52	41	0.0	0.4	1.8	113	16	76	719
8/12/2018 2:00	46	66	54	49	40	0.0	0.4	2.2	113	16	76	719
8/12/2018 2:15	42	59	50	45	37	0.0	0.4	1.3	113	16	76	719
8/12/2018 2:30	43	56	52	45	35	0.0	0.4	1.8	113	16	76	719
8/12/2018 2:45	45	60	52	50	37	0.0	0.4	1.8	113	16	77	719
8/12/2018 3:00	48	54	53	52	36	0.0	0.4	3.1	113	16	77	719
8/12/2018 3:15	39	63	48	41	34	0.0	0.4	2.2	113	16	78	719
8/12/2018 3:30	43	70	56	43	29	0.0	0.4	2.7	113	16	79	719
8/12/2018 3:45	44	65	56	45	33	0.0	0.4	1.3	113	15	79	719
8/12/2018 4:00	43	67	55	44	32	0.0	0.0	1.3	113	15	79	719

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018 4:15	44	60	54	48	35	0.0	0.4	1.8	113	15	79	719
8/12/2018 4:30	48	66	55	52	37	0.0	0.9	2.7	113	15	79	719
8/12/2018 4:45	49	67	58	52	42	0.0	0.4	1.8	113	15	79	719
8/12/2018 5:00	48	70	57	49	42	0.0	0.0	0.9	113	15	79	719
8/12/2018 5:15	47	65	57	50	39	0.0	0.0	0.9	113	15	80	719
8/12/2018 5:30	50	61	56	54	42	0.0	0.0	0.9	113	15	79	719
8/12/2018 5:45	50	64	58	53	42	0.0	0.0	1.3	113	16	77	719
8/12/2018 6:00	54	70	62	58	48	0.0	0.4	2.2	113	17	75	719
8/12/2018 6:15	49	63	57	53	42	0.0	1.3	3.1	113	18	73	720
8/12/2018 6:30	50	70	58	53	45	0.0	1.3	4.0	113	18	72	720
8/12/2018 6:45	53	69	61	56	46	0.0	1.8	4.5	113	18	72	720
8/12/2018 7:00	52	72	62	54	44	0.0	2.2	6.7	90	19	71	720
8/12/2018 7:15	55	75	63	58	46	0.0	2.2	6.7	90	19	70	720
8/12/2018 7:30	51	71	61	53	46	0.0	2.7	5.4	90	19	69	720
8/12/2018 7:45	50	68	57	53	45	0.0	2.2	6.7	90	20	67	720
8/12/2018 8:00	48	65	57	52	40	0.0	2.7	6.3	90	20	65	720
8/12/2018 8:15	53	71	62	55	46	0.0	3.1	8.0	90	21	63	720
8/12/2018 8:30	57	75	66	60	49	0.0	2.7	6.3	90	21	61	720
8/12/2018 8:45	55	73	65	59	50	0.0	3.1	6.7	68	22	60	720
8/12/2018 9:00	55	76	64	58	49	0.0	2.7	7.2	68	22	58	720
8/12/2018 9:15	52	75	61	54	43	0.0	3.1	6.3	68	22	60	720
8/12/2018 9:30	47	65	55	49	43	0.0	2.2	6.3	90	23	57	720
8/12/2018 9:45	49	74	58	51	43	0.0	2.7	6.3	68	23	56	720
8/12/2018 10:00	48	60	56	51	42	0.0	1.8	5.8	68	23	56	720
8/12/2018 10:15	51	68	58	55	43	0.0	2.7	8.9	90	23	57	720
8/12/2018 10:30	53	67	62	57	46	0.0	2.7	5.8	90	23	56	720
8/12/2018 10:45	50	70	59	53	43	0.0	3.1	7.2	45	24	56	719
8/12/2018 11:00	55	69	65	58	45	0.0	3.1	6.7	68	24	56	720
8/12/2018 11:15	53	79	58	50	40	0.0	3.1	6.3	68	24	56	720
8/12/2018 11:30	55	81	67	51	40	0.0	3.1	7.2	68	23	59	720
8/12/2018 11:45	50	67	57	53	46	0.0	2.2	5.8	68	23	58	719
8/12/2018 12:00	48	64	53	51	45	0.0	2.7	5.4	68	23	59	719
8/12/2018 12:15	51	65	60	55	43	0.0	3.1	5.8	68	24	58	719
8/12/2018 12:30	51	66	57	53	46	0.0	2.7	6.7	90	23	60	719
8/12/2018 12:45	49	68	57	51	44	0.0	2.7	6.3	68	24	58	719
8/12/2018 13:00	48	73	56	49	42	0.0	2.2	5.8	68	23	58	719
8/12/2018 13:15	47	64	55	50	42	0.0	2.2	5.8	68	24	57	719
8/12/2018 13:30	47	69	57	50	41	0.0	2.2	6.3	68	23	58	719
8/12/2018 13:45	50	69	58	54	41	0.0	2.7	6.3	68	23	60	719
8/12/2018 14:00	48	68	57	51	43	0.0	2.2	4.9	90	22	62	719
8/12/2018 14:15	51	61	58	55	43	0.0	1.8	6.7	90	23	61	719
8/12/2018 14:30	51	63	56	53	43	0.0	2.2	4.9	90	23	60	719
8/12/2018 14:45	46	59	53	49	40	0.0	2.7	5.4	68	23	59	719
8/12/2018 15:00	45	60	53	48	38	0.0	2.2	5.8	68	23	58	719
8/12/2018 15:15	44	56	51	46	39	0.0	2.2	5.8	68	23	58	718
8/12/2018 15:30	46	74	52	48	42	0.0	2.2	4.9	90	24	54	718
8/12/2018 15:45	48	64	58	50	43	0.0	2.2	4.9	68	23	54	718
8/12/2018 16:00	48	61	55	50	43	0.0	2.2	5.4	68	23	57	719
8/12/2018 16:15	48	61	54	51	44	0.0	2.2	4.9	68	23	56	719
8/12/2018 16:30	48	63	57	51	43	0.0	1.8	4.5	90	24	55	718
8/12/2018 16:45	44	68	53	45	40	0.0	2.2	4.9	90	24	54	718
8/12/2018 17:00	47	62	54	49	41	0.0	2.2	4.9	90	23	55	718
8/12/2018 17:15	47	63	53	49	44	0.0	1.3	4.0	113	24	55	718
8/12/2018 17:30	46	65	56	48	40	0.0	1.8	4.9	113	23	56	719
8/12/2018 17:45	44	58	51	46	40	0.0	2.2	4.9	90	22	59	719
8/12/2018 18:00	66	68	67	67	63	0.0	1.8	4.0	113	22	58	719
8/12/2018 18:15	52	62	59	57	39	0.0	2.2	4.9	90	22	60	719
8/12/2018 18:30	43	61	53	47	36	0.0	1.8	5.4	113	21	62	719
8/12/2018 18:45	43	61	53	46	36	0.0	1.8	4.0	90	21	62	719
8/12/2018 19:00	42	64	53	44	35	0.0	1.3	3.6	90	20	63	720
8/12/2018 19:15	43	62	54	46	35	0.0	1.3	4.0	113	20	65	720
8/12/2018 19:30	39	57	51	40	33	0.0	0.9	2.7	113	20	66	720
8/12/2018 19:45	40	60	50	43	34	0.0	0.9	3.6	113	19	68	720
8/12/2018 20:00	41	60	51	43	35	0.0	0.9	3.1	113	19	69	720
8/12/2018 20:15	38	53	45	40	34	0.0	0.9	2.7	113	19	70	720
8/12/2018 20:30	38	59	49	39	33	0.0	1.3	2.7	90	18	71	720
8/12/2018 20:45	36	53	41	38	34	0.0	0.9	3.1	90	18	73	720
8/12/2018 21:00	36	51	42	38	34	0.0	0.9	3.1	113	18	74	720
8/12/2018 21:15	36	48	42	39	32	0.0	0.9	2.7	90	18	74	720
8/12/2018 21:30	42	55	51	44	34	0.0	0.4	2.7	113	18	75	720

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018 21:45	37	52	47	38	34	0.0	0.4	2.2	113	17	76	720
8/12/2018 22:00	37	52	44	40	33	0.0	0.4	1.3	90	17	77	720
8/12/2018 22:15	36	48	43	39	32	0.0	0.4	1.3	113	17	77	720
8/12/2018 22:30	39	58	45	41	36	0.0	0.4	1.8	113	17	78	720
8/12/2018 22:45	36	48	42	39	33	0.0	0.0	1.3	113	16	80	720
8/12/2018 23:00	36	53	44	39	32	0.0	0.0	0.4	113	16	81	720
8/12/2018 23:15	31	44	37	33	29	0.0	0.0	0.9	90	16	81	720
8/12/2018 23:30	32	47	39	35	28	0.0	0.4	1.8	113	16	81	720
8/12/2018 23:45	32	45	37	34	29	0.0	0.0	1.8	90	16	82	719
9/12/2018 0:00	32	48	41	35	27	0.0	0.0	0.9	113	16	83	719
9/12/2018 0:15	30	43	36	33	26	0.0	0.0	1.3	113	15	84	719
9/12/2018 0:30	35	53	50	33	26	0.0	0.0	1.3	113	15	84	719
9/12/2018 0:45	32	44	40	35	26	0.0	0.0	1.3	113	15	85	719
9/12/2018 1:00	33	54	45	35	25	0.0	0.0	0.9	113	15	84	719
9/12/2018 1:15	29	45	37	31	23	0.0	0.0	0.4	113	14	87	719
9/12/2018 1:30	30	40	36	32	27	0.0	0.0	0.9	113	14	87	719
9/12/2018 1:45	28	46	34	31	24	0.0	0.0	1.3	90	14	88	719
9/12/2018 2:00	35	53	52	28	21	0.0	0.0	1.3	113	15	86	718
9/12/2018 2:15	31	48	42	35	23	0.0	0.0	1.3	113	15	86	718
9/12/2018 2:30	28	43	36	31	24	0.0	0.4	1.8	113	15	85	718
9/12/2018 2:45	32	44	41	35	25	0.0	0.4	1.8	113	15	85	718
9/12/2018 3:00	33	48	43	37	27	0.0	0.4	2.2	113	15	85	718
9/12/2018 3:15	39	55	51	42	30	0.0	0.4	1.8	113	14	85	718
9/12/2018 3:30	48	71	61	41	28	0.0	0.0	0.9	113	14	86	718
9/12/2018 3:45	51	72	67	42	29	0.0	0.0	0.9	113	14	86	718
9/12/2018 4:00	50	76	65	45	31	0.0	0.0	0.4	113	14	86	718
9/12/2018 4:15	45	68	57	43	31	0.0	0.4	1.3	113	15	86	718
9/12/2018 4:30	48	75	57	44	32	0.0	0.4	1.8	113	15	86	718
9/12/2018 4:45	47	68	57	50	35	0.0	0.0	1.3	113	15	86	718
9/12/2018 5:00	46	68	53	50	38	0.0	0.4	2.2	113	15	87	718
9/12/2018 5:15	44	63	52	47	38	0.0	0.9	3.1	113	16	85	718
9/12/2018 5:30	46	64	55	51	38	0.0	0.9	3.6	113	16	84	718
9/12/2018 5:45	46	69	54	50	39	0.0	0.9	2.7	113	17	80	718
9/12/2018 6:00	47	64	56	51	40	0.0	1.3	4.0	113	18	77	718
9/12/2018 6:15	50	64	60	52	43	0.0	1.3	4.0	113	19	75	718
9/12/2018 6:30	68	85	78	72	49	0.0	1.8	4.9	90	19	75	718
9/12/2018 6:45	61	77	71	67	43	0.0	1.8	4.5	113	19	75	719
9/12/2018 7:00	54	72	70	52	39	0.0	2.2	5.8	113	20	72	719
9/12/2018 7:15	46	68	54	50	40	0.0	2.2	5.4	90	21	71	719
9/12/2018 7:30	48	70	54	48	41	0.0	2.2	5.4	113	21	70	719
9/12/2018 7:45	51	76	64	52	40	0.0	2.2	5.4	90	22	67	719
9/12/2018 8:00	50	67	61	53	43	0.0	2.2	5.8	90	22	66	719
9/12/2018 8:15	50	67	57	53	44	0.0	2.7	5.8	90	23	64	719
9/12/2018 8:30	49	68	59	52	41	0.0	2.7	7.2	90	23	62	719
9/12/2018 8:45	52	77	63	50	39	0.0	2.7	5.8	113	23	62	719
9/12/2018 9:00	48	67	56	51	41	0.0	2.2	5.8	90	24	58	719
9/12/2018 9:15	49	71	59	51	41	0.0	2.2	5.4	90	24	58	719
9/12/2018 9:30	46	66	54	50	40	0.0	2.7	6.3	90	25	55	719
9/12/2018 9:45	48	64	55	51	42	0.0	3.1	6.7	45	25	55	719
9/12/2018 10:00	46	60	53	49	40	0.0	2.2	5.4	90	25	54	719
9/12/2018 10:15	46	64	54	48	41	0.0	2.7	6.3	90	25	54	718
9/12/2018 10:30	47	65	56	50	41	0.0	2.7	5.4	68	26	53	718
9/12/2018 10:45	48	66	56	51	42	0.0	2.2	6.3	90	26	51	718
9/12/2018 11:00	47	64	55	51	39	0.0	2.2	5.4	90	26	51	718
9/12/2018 11:15	44	66	51	46	39	0.0	2.7	5.8	68	27	51	718
9/12/2018 11:30	47	68	55	49	39	0.0	2.2	5.8	68	26	51	718
9/12/2018 11:45	50	78	57	48	40	0.0	2.2	6.3	68	27	51	718
9/12/2018 12:00	44	66	51	47	39	0.0	2.2	5.8	90	26	52	718
9/12/2018 12:15	44	62	54	48	38	0.0	1.8	4.9	68	27	50	718
9/12/2018 12:30	49	64	60	52	40	0.0	2.7	6.7	45	27	51	718
9/12/2018 12:45	51	74	66	49	38	0.0	2.2	5.4	68	28	50	718
9/12/2018 13:00	47	64	56	50	39	0.0	2.2	4.9	45	27	48	717
9/12/2018 13:15	51	75	60	52	40	0.0	1.8	4.9	68	28	47	717
9/12/2018 13:30	44	60	50	47	40	0.0	1.8	5.8	68	28	45	717
9/12/2018 13:45	47	68	54	50	40	0.0	1.8	5.4	90	28	46	717
9/12/2018 14:00	51	78	64	50	39	0.0	1.8	5.8	90	27	47	717
9/12/2018 14:15	46	66	55	49	40	0.0	1.8	4.9	90	28	46	717
9/12/2018 14:30	48	64	56	52	40	0.0	1.8	4.9	90	28	43	717
9/12/2018 14:45	48	63	55	51	40	0.0	1.8	4.0	90	29	43	717
9/12/2018 15:00	50	83	56	50	39	0.0	2.2	7.2	68	28	44	717

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018 15:15	50	64	57	53	45	0.0	1.3	4.9	90	29	41	717
9/12/2018 15:30	54	84	62	52	44	0.0	1.8	4.9	113	29	42	716
9/12/2018 15:45	49	69	56	52	44	0.0	2.2	4.9	68	28	42	716
9/12/2018 16:00	48	65	58	51	43	0.0	2.2	6.3	68	28	42	716
9/12/2018 16:15	49	65	57	51	43	0.0	2.2	5.8	68	28	44	716
9/12/2018 16:30	50	68	58	53	45	0.0	2.2	5.4	90	28	43	716
9/12/2018 16:45	49	65	56	52	44	0.0	2.7	5.8	68	27	45	716
9/12/2018 17:00	46	65	54	49	42	0.0	2.2	5.4	90	27	45	716
9/12/2018 17:15	46	64	54	49	39	0.0	2.2	5.8	68	26	47	716
9/12/2018 17:30	47	67	54	50	43	0.0	2.2	5.4	68	26	48	716
9/12/2018 17:45	48	63	56	50	43	0.0	2.2	5.4	68	26	51	716
9/12/2018 18:00	64	69	68	67	44	0.0	2.7	5.4	45	25	54	716
9/12/2018 18:15	63	67	66	65	61	0.0	2.2	5.8	68	24	56	717
9/12/2018 18:30	52	64	62	55	40	0.0	2.2	5.4	68	23	59	717
9/12/2018 18:45	43	57	52	45	39	0.0	2.7	6.7	68	23	62	717
9/12/2018 19:00	47	78	50	44	39	0.0	2.2	4.9	68	22	64	717
9/12/2018 19:15	40	56	51	41	38	0.0	2.2	6.3	68	22	64	717
9/12/2018 19:30	42	55	51	43	39	0.0	2.2	4.5	68	22	65	717
9/12/2018 19:45	42	56	49	45	38	0.0	1.8	4.9	68	21	66	717
9/12/2018 20:00	44	62	50	46	41	0.0	1.8	4.5	68	21	68	717
9/12/2018 20:15	42	53	47	44	39	0.0	1.8	5.8	68	21	70	717
9/12/2018 20:30	41	55	47	43	37	0.0	2.2	5.4	68	21	70	717
9/12/2018 20:45	41	53	52	42	37	0.0	1.8	5.4	68	20	71	717
9/12/2018 21:00	38	55	43	39	36	0.0	2.2	4.9	68	20	72	717
9/12/2018 21:15	37	47	42	39	35	0.0	1.8	4.5	68	20	73	718
9/12/2018 21:30	37	47	42	38	35	0.0	1.8	4.9	68	20	75	718
9/12/2018 21:45	37	55	44	39	34	0.0	1.8	4.9	68	19	75	718
9/12/2018 22:00	36	44	41	38	34	0.0	1.3	4.0	90	19	76	718
9/12/2018 22:15	37	52	42	38	35	0.0	1.3	3.6	90	19	77	718
9/12/2018 22:30	36	47	42	39	33	0.0	1.8	4.0	90	19	78	718
9/12/2018 22:45	35	43	40	37	33	0.0	1.3	4.0	90	18	80	718
9/12/2018 23:00	34	43	38	36	32	0.0	1.8	4.9	68	18	80	718
9/12/2018 23:15	37	53	51	38	32	0.0	1.8	4.9	68	18	81	718
9/12/2018 23:30	35	45	40	36	32	0.0	1.3	2.7	90	18	83	718
9/12/2018 23:45	34	44	38	36	32	0.0	1.3	4.0	90	18	84	718
10/12/2018 0:00	34	50	40	36	32	0.0	1.3	3.1	90	17	85	718
10/12/2018 0:15	35	45	41	37	32	0.0	0.4	2.2	90	17	86	718
10/12/2018 0:30	35	48	41	37	33	0.0	0.4	2.7	90	17	86	717
10/12/2018 0:45	35	50	38	37	33	0.0	0.4	2.2	113	17	86	717
10/12/2018 1:00	36	42	38	37	34	0.0	0.0	1.3	90	17	86	717
10/12/2018 1:15	36	53	42	38	34	0.0	0.4	2.7	90	17	87	717
10/12/2018 1:30	37	53	44	39	33	0.0	0.4	2.2	90	17	88	717
10/12/2018 1:45	33	48	38	35	31	0.0	0.4	1.8	90	17	88	717
10/12/2018 2:00	35	47	40	37	32	0.0	0.4	2.2	90	17	89	717
10/12/2018 2:15	39	52	51	40	32	0.0	0.0	1.8	90	17	89	717
10/12/2018 2:30	36	52	44	38	31	0.0	0.0	1.3	113	17	90	716
10/12/2018 2:45	36	47	42	38	32	0.0	0.0	1.8	90	16	89	717
10/12/2018 3:00	36	53	42	38	33	0.0	0.0	1.3	113	16	90	716
10/12/2018 3:15	37	58	46	39	32	0.0	0.0	1.3	113	16	91	716
10/12/2018 3:30	47	73	61	42	31	0.0	0.0	0.9	113	17	90	716
10/12/2018 3:45	47	66	61	46	30	0.0	0.0	0.9	113	17	90	716
10/12/2018 4:00	49	72	63	43	28	0.0	0.0	0.9	113	17	90	716
10/12/2018 4:15	48	76	60	43	30	0.0	0.0	1.3	113	17	90	716
10/12/2018 4:30	42	61	54	43	33	0.0	0.0	0.4	113	17	89	717
10/12/2018 4:45	49	70	60	51	34	0.0	0.0	0.9	113	17	88	717
10/12/2018 5:00	46	67	57	49	35	0.0	0.0	0.4	113	17	88	717
10/12/2018 5:15	48	65	60	51	35	0.0	0.0	0.4	113	17	88	717
10/12/2018 5:30	42	64	52	43	36	0.0	0.0	0.0	0	18	88	717
10/12/2018 5:45	47	68	59	48	38	0.0	0.0	1.3	113	18	85	717
10/12/2018 6:00	46	67	58	49	38	0.0	0.4	2.2	113	19	84	717
10/12/2018 6:15	46	70	56	48	39	0.0	0.4	2.2	113	20	81	717
10/12/2018 6:30	46	66	58	46	39	0.0	0.9	2.7	90	20	79	717
10/12/2018 6:45	47	69	55	50	42	0.0	0.9	4.0	113	20	79	717
10/12/2018 7:00	47	66	58	47	41	0.0	1.3	4.5	90	20	77	717
10/12/2018 7:15	43	59	50	45	41	0.0	1.3	3.6	90	21	74	718
10/12/2018 7:30	44	66	53	46	37	0.0	1.8	3.6	68	22	72	718
10/12/2018 7:45	42	60	53	45	36	0.0	1.3	4.0	90	21	71	718
10/12/2018 8:00	47	60	55	52	39	0.0	1.3	4.9	90	23	65	718
10/12/2018 8:15	47	66	54	50	40	0.0	1.8	4.9	68	23	67	718
10/12/2018 8:30	43	71	49	45	37	0.0	1.8	4.0	90	23	67	718

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018 8:45	48	67	57	51	39	0.0	1.3	4.0	90	24	61	718
10/12/2018 9:00	51	64	58	55	41	0.0	1.8	4.5	90	24	60	718
10/12/2018 9:15	44	59	54	46	39	0.0	1.8	4.5	90	24	60	717
10/12/2018 9:30	45	66	53	45	39	0.0	1.3	4.5	90	25	59	717
10/12/2018 9:45	40	51	44	41	38	0.0	1.3	4.5	90	25	57	717
10/12/2018 10:00	42	58	50	45	39	0.0	1.3	4.0	90	25	57	717
10/12/2018 10:15	44	62	53	46	37	0.0	1.3	4.0	90	27	51	717
10/12/2018 10:30	42	58	51	45	36	0.0	1.8	4.9	113	26	52	717
10/12/2018 10:45	46	62	55	51	37	0.0	0.9	4.0	90	26	51	717
10/12/2018 11:00	46	62	55	50	38	0.0	0.9	4.0	90	27	49	717
10/12/2018 11:15	47	65	58	51	38	0.0	1.3	4.0	113	28	47	717
10/12/2018 11:30	44	60	53	47	37	0.0	1.3	4.0	113	28	47	717
10/12/2018 11:45	44	61	56	46	38	0.0	1.3	4.9	113	29	44	717
10/12/2018 12:00	44	62	52	48	37	0.0	1.3	3.6	113	29	44	717
10/12/2018 12:15	47	65	59	48	38	0.0	1.3	4.5	113	29	43	717
10/12/2018 12:30	43	57	51	46	38	0.0	1.3	4.0	90	29	44	717
10/12/2018 12:45	44	64	52	49	36	0.0	1.3	4.5	113	30	39	717
10/12/2018 13:00	45	63	55	48	39	0.0	1.3	4.5	113	30	41	716
10/12/2018 13:15	48	65	57	52	38	0.0	1.3	4.0	113	30	41	716
10/12/2018 13:30	46	65	54	49	38	0.0	0.9	3.6	113	30	39	716
10/12/2018 13:45	47	63	55	50	42	0.0	1.3	4.0	90	30	40	716
10/12/2018 14:00	49	71	58	53	40	0.0	0.9	3.1	90	31	39	716
10/12/2018 14:15	48	67	57	51	38	0.0	1.3	5.4	113	30	40	716
10/12/2018 14:30	49	68	58	52	40	0.0	1.3	3.6	90	30	41	715
10/12/2018 14:45	48	64	57	51	40	0.0	1.8	4.9	68	30	39	715
10/12/2018 15:00	47	63	57	50	39	0.0	1.3	5.4	90	31	39	715
10/12/2018 15:15	47	66	56	50	39	0.0	1.8	4.9	68	30	40	715
10/12/2018 15:30	45	58	54	49	38	0.0	1.3	3.6	90	31	39	715
10/12/2018 15:45	51	65	62	56	38	0.0	1.8	4.9	90	30	41	715
10/12/2018 16:00	48	62	56	51	40	0.0	2.2	5.4	68	30	41	715
10/12/2018 16:15	49	65	59	53	38	0.0	1.8	4.0	90	29	41	715
10/12/2018 16:30	47	62	54	51	38	0.0	2.2	4.5	68	29	42	715
10/12/2018 16:45	47	62	54	51	39	0.0	1.8	5.8	90	29	43	715
10/12/2018 17:00	44	64	51	45	39	0.0	1.8	5.4	68	29	43	715
10/12/2018 17:15	42	56	51	45	37	0.0	2.2	5.8	68	28	43	715
10/12/2018 17:30	49	83	52	49	36	0.0	2.2	4.5	68	28	43	715
10/12/2018 17:45	45	60	56	50	37	0.0	1.8	4.5	68	28	44	715
10/12/2018 18:00	65	68	66	66	64	0.0	1.8	4.5	68	27	45	715
10/12/2018 18:15	58	67	65	64	42	0.0	1.8	3.6	68	27	45	715
10/12/2018 18:30	47	59	55	51	41	0.0	1.3	3.1	90	26	47	715
10/12/2018 18:45	46	61	54	48	42	0.0	0.9	2.7	90	26	49	715
10/12/2018 19:00	46	61	53	49	43	0.0	1.3	3.1	90	25	50	716
10/12/2018 19:15	42	54	47	44	40	0.0	0.9	4.0	90	25	53	716
10/12/2018 19:30	43	59	49	45	40	0.0	1.8	3.6	90	25	54	716
10/12/2018 19:45	41	59	46	43	39	0.0	1.8	4.9	68	24	57	716
10/12/2018 20:00	44	58	52	46	41	0.0	1.8	4.5	68	24	59	716
10/12/2018 20:15	42	58	48	44	39	0.0	2.2	5.4	68	23	61	716
10/12/2018 20:30	39	54	45	42	36	0.0	2.2	6.3	68	23	64	716
10/12/2018 20:45	38	55	44	40	36	0.0	2.2	4.9	68	23	66	716
10/12/2018 21:00	38	47	42	39	35	0.0	2.2	4.9	68	22	68	716
10/12/2018 21:15	38	48	43	40	35	0.0	2.2	4.9	68	22	69	716
10/12/2018 21:30	36	47	41	38	34	0.0	2.2	4.9	68	21	70	716
10/12/2018 21:45	37	47	44	39	34	0.0	2.2	5.8	68	21	71	717
10/12/2018 22:00	39	54	50	40	37	0.0	1.8	4.5	68	21	72	717
10/12/2018 22:15	39	49	46	41	37	0.0	1.8	4.5	68	20	73	717
10/12/2018 22:30	37	47	43	39	34	0.0	1.3	4.0	90	20	75	717
10/12/2018 22:45	36	46	41	38	34	0.0	1.3	4.0	90	20	76	717
10/12/2018 23:00	37	48	42	39	35	0.0	1.8	4.0	90	20	77	717
10/12/2018 23:15	37	48	43	39	35	0.0	0.9	3.6	90	19	78	717
10/12/2018 23:30	37	46	42	39	34	0.0	0.0	1.8	90	19	80	717
10/12/2018 23:45	36	59	44	38	32	0.0	0.4	2.2	90	19	80	717
11/12/2018 0:00	37	52	50	38	33	0.0	0.4	2.2	90	18	81	717
11/12/2018 0:15	36	49	44	39	32	0.0	0.4	2.2	90	18	82	717
11/12/2018 0:30	33	44	37	35	31	0.0	0.9	2.7	90	18	83	716
11/12/2018 0:45	36	50	45	38	31	0.0	0.9	3.1	90	18	85	716
11/12/2018 1:00	32	42	37	34	29	0.0	0.9	2.7	90	18	86	716
11/12/2018 1:15	30	39	36	32	27	0.0	0.9	2.7	90	17	86	716
11/12/2018 1:30	28	45	35	31	23	0.0	0.4	2.2	90	17	87	716
11/12/2018 1:45	31	43	40	36	23	0.0	0.9	2.2	90	17	88	716
11/12/2018 2:00	34	52	50	33	22	0.0	0.9	1.8	90	17	88	716

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018 2:15	39	54	52	37	24	0.0	0.9	2.2	90	17	89	716
11/12/2018 2:30	38	53	51	38	28	0.0	0.4	3.1	90	17	89	716
11/12/2018 2:45	34	44	42	37	29	0.0	0.4	1.8	90	17	89	716
11/12/2018 3:00	34	58	45	37	26	0.0	0.4	1.8	90	17	90	716
11/12/2018 3:15	46	61	57	51	28	0.0	0.0	1.8	90	17	90	716
11/12/2018 3:30	43	63	56	44	29	0.0	0.0	0.9	113	16	91	716
11/12/2018 3:45	51	74	64	50	34	0.0	0.0	0.4	113	16	91	716
11/12/2018 4:00	45	66	54	46	39	0.0	0.0	0.9	113	16	92	716
11/12/2018 4:15	42	58	49	44	36	0.0	0.0	1.3	113	16	92	716
11/12/2018 4:30	45	65	56	47	35	0.0	0.0	0.4	113	15	92	716
11/12/2018 4:45	45	64	57	48	34	0.0	0.0	0.4	113	15	93	716
11/12/2018 5:00	48	72	60	46	39	0.0	0.0	0.4	113	15	93	716
11/12/2018 5:15	43	64	52	45	38	0.0	0.0	0.4	113	15	93	716
11/12/2018 5:30	49	76	61	44	33	0.0	0.0	0.4	113	15	93	717
11/12/2018 5:45	49	72	64	44	33	0.0	0.0	0.9	90	17	89	717
11/12/2018 6:00	43	63	56	44	33	0.0	0.4	1.8	90	19	83	717
11/12/2018 6:15	42	59	55	44	33	0.0	0.9	2.2	90	20	80	717
11/12/2018 6:30	41	59	53	43	32	0.0	0.9	2.7	90	20	77	717
11/12/2018 6:45	47	74	59	45	32	0.0	1.3	3.1	90	21	74	717
11/12/2018 7:00	41	61	51	44	33	0.0	1.3	3.1	90	22	72	717
11/12/2018 7:15	40	61	51	44	32	0.0	1.3	3.6	90	22	69	717
11/12/2018 7:30	48	70	59	52	35	0.0	1.3	4.0	90	22	68	717
11/12/2018 7:45	48	67	62	49	35	0.0	1.3	3.1	90	23	64	717
11/12/2018 8:00	49	65	60	52	34	0.0	0.9	3.6	90	23	64	717
11/12/2018 8:15	51	69	60	56	40	0.0	0.9	3.1	90	24	61	718
11/12/2018 8:30	51	65	60	56	42	0.0	0.9	3.1	90	25	59	718
11/12/2018 8:45	50	72	60	55	39	0.0	0.4	2.7	90	26	57	717
11/12/2018 9:00	43	61	52	46	35	0.0	1.3	4.0	113	25	55	718
11/12/2018 9:15	43	59	53	46	36	0.0	1.3	3.6	90	25	56	717
11/12/2018 9:30	45	67	57	48	35	0.0	1.3	4.0	90	26	55	717
11/12/2018 9:45	60	71	70	66	38	0.0	1.3	5.8	90	27	51	717
11/12/2018 10:00	49	62	56	52	37	0.0	1.3	5.8	113	27	50	718
11/12/2018 10:15	41	64	51	42	34	0.0	1.3	4.0	90	27	51	717
11/12/2018 10:30	43	61	53	46	35	0.0	1.3	4.5	90	28	47	717
11/12/2018 10:45	48	64	57	52	37	0.0	1.3	4.0	68	28	47	717
11/12/2018 11:00	51	79	58	50	37	0.0	1.8	4.5	90	28	47	717
11/12/2018 11:15	46	62	54	49	35	0.0	1.3	5.4	90	29	45	717
11/12/2018 11:30	47	72	56	47	36	0.0	1.3	3.6	90	29	42	717
11/12/2018 11:45	44	60	52	47	38	0.0	1.3	4.0	90	29	42	717
11/12/2018 12:00	47	61	55	50	41	0.0	1.8	4.9	90	29	44	717
11/12/2018 12:15	47	63	56	50	41	0.0	1.3	4.5	90	29	43	717
11/12/2018 12:30	46	63	53	49	39	0.0	1.3	4.9	90	30	42	717
11/12/2018 12:45	47	63	54	49	42	0.0	1.8	4.5	90	30	40	716
11/12/2018 13:00	48	59	54	51	43	0.0	1.3	4.9	90	30	40	716
11/12/2018 13:15	46	60	53	49	43	0.0	1.8	5.4	90	30	41	716
11/12/2018 13:30	45	66	54	48	39	0.0	1.3	4.9	113	30	40	716
11/12/2018 13:45	47	68	56	49	40	0.0	2.2	5.8	68	30	40	716
11/12/2018 14:00	46	62	55	49	41	0.0	1.8	4.9	90	31	39	716
11/12/2018 14:15	48	67	56	51	43	0.0	1.8	5.4	90	31	40	716
11/12/2018 14:30	47	60	53	50	42	0.0	2.2	6.3	90	30	40	715
11/12/2018 14:45	47	71	54	49	42	0.0	1.8	4.9	90	30	41	715
11/12/2018 15:00	48	64	56	51	42	0.0	1.8	5.4	113	30	39	715
11/12/2018 15:15	47	65	56	50	40	0.0	1.8	4.5	90	30	40	715
11/12/2018 15:30	48	63	56	51	39	0.0	2.2	6.7	90	29	40	715
11/12/2018 15:45	48	62	56	51	41	0.0	2.2	5.4	68	29	40	715
11/12/2018 16:00	46	59	53	49	42	0.0	2.2	4.9	68	30	40	715
11/12/2018 16:15	48	65	55	51	43	0.0	1.8	5.4	90	30	40	714
11/12/2018 16:30	50	63	57	52	45	0.0	2.2	5.8	90	29	40	714
11/12/2018 16:45	50	68	58	53	46	0.0	2.2	4.9	68	29	41	715
11/12/2018 17:00	50	71	57	52	45	0.0	2.2	5.8	68	29	42	715
11/12/2018 17:15	50	66	58	53	45	0.0	2.2	4.9	68	29	42	715
11/12/2018 17:30	46	66	52	50	42	0.0	2.2	6.3	68	28	44	715
11/12/2018 17:45	56	65	64	63	41	0.0	2.2	5.8	45	27	46	715
11/12/2018 18:00	61	66	65	64	48	0.0	2.2	6.3	45	27	48	715
11/12/2018 18:15	52	59	57	55	48	0.0	2.2	6.3	68	26	50	715
11/12/2018 18:30	47	57	55	51	40	0.0	2.7	5.4	45	26	53	715
11/12/2018 18:45	45	60	53	50	39	0.0	2.7	5.8	68	25	56	715
11/12/2018 19:00	45	61	53	48	39	0.0	2.7	7.2	45	25	57	715
11/12/2018 19:15	47	64	55	52	39	0.0	2.7	5.8	68	24	59	715
11/12/2018 19:30	41	56	47	44	38	0.0	2.7	6.3	45	24	60	716

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	19:45	43	57	49	46	40	0.0	2.7	6.7	68	23	62	716
11/12/2018	20:00	45	62	52	48	41	0.0	2.7	6.3	45	23	64	716
11/12/2018	20:15	45	57	52	49	39	0.0	2.7	6.3	68	23	65	717
11/12/2018	20:30	45	59	53	48	39	0.0	2.7	7.2	68	22	66	717
11/12/2018	20:45	44	56	51	46	40	0.0	2.7	5.8	45	22	68	717
11/12/2018	21:00	44	66	52	46	39	0.0	2.2	4.5	45	21	70	716
11/12/2018	21:15	40	54	46	42	37	0.0	2.7	6.7	45	21	71	717
11/12/2018	21:30	44	73	49	43	37	0.0	2.7	6.3	45	21	73	717
11/12/2018	21:45	38	50	43	40	35	0.0	2.2	5.4	68	21	75	717
11/12/2018	22:00	36	53	41	38	34	0.0	1.8	4.5	68	20	76	717
11/12/2018	22:15	38	52	50	39	35	0.0	1.8	5.8	68	20	77	717
11/12/2018	22:30	38	53	45	41	35	0.0	2.2	5.8	68	20	78	717
11/12/2018	22:45	39	54	45	41	36	0.0	1.8	4.5	68	20	78	717
11/12/2018	23:00	57	85	57	39	34	0.0	1.3	3.6	68	20	79	717
11/12/2018	23:15	42	61	49	45	36	0.0	1.8	4.0	68	19	80	717
11/12/2018	23:30	38	53	43	40	35	0.0	1.3	4.0	68	19	81	717
11/12/2018	23:45	36	46	40	37	34	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:00	37	49	44	40	33	0.0	1.8	4.0	68	19	81	716
12/12/2018	0:15	37	52	49	39	33	0.0	1.8	4.5	68	19	81	716
12/12/2018	0:30	34	54	39	36	32	0.0	0.9	3.1	90	19	81	716
12/12/2018	0:45	36	61	44	38	32	0.0	0.9	3.1	90	19	82	716
12/12/2018	1:00	37	48	43	39	33	0.0	0.9	3.6	90	19	83	716
12/12/2018	1:15	37	57	45	39	33	0.0	0.9	2.2	90	18	84	716
12/12/2018	1:30	33	45	40	35	29	0.0	1.3	4.0	90	18	83	716
12/12/2018	1:45	33	42	40	35	29	0.0	1.8	4.0	90	18	83	715
12/12/2018	2:00	35	44	41	38	31	0.0	1.8	4.5	90	18	83	715
12/12/2018	2:15	39	54	51	37	28	0.0	1.8	4.0	68	18	84	715
12/12/2018	2:30	37	52	51	38	26	0.0	1.8	4.9	68	18	84	715
12/12/2018	2:45	36	45	42	40	31	0.0	1.8	4.0	68	18	85	715
12/12/2018	3:00	39	61	51	40	32	0.0	1.3	4.0	90	18	86	715
12/12/2018	3:15	47	71	61	44	31	0.0	0.4	2.2	113	18	87	715
12/12/2018	3:30	48	71	56	51	32	0.0	0.0	1.3	113	18	87	715
12/12/2018	3:45	43	66	53	45	33	0.0	0.4	1.8	90	17	87	715
12/12/2018	4:00	45	58	53	48	39	0.0	0.9	3.1	90	18	85	715
12/12/2018	4:15	46	58	52	48	41	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:30	45	61	54	48	39	0.0	0.9	2.7	90	18	85	715
12/12/2018	4:45	47	67	61	50	36	0.0	0.0	1.3	90	17	86	715
12/12/2018	5:00	47	69	58	49	37	0.0	0.4	1.8	90	17	86	715
12/12/2018	5:15	45	62	54	48	40	0.0	0.4	2.7	90	17	86	715
12/12/2018	5:30	44	66	52	46	39	0.0	0.4	1.8	113	18	86	715
12/12/2018	5:45	43	63	52	46	38	0.0	0.9	4.5	90	19	83	715
12/12/2018	6:00	50	72	60	53	39	0.0	1.8	3.6	68	19	80	715
12/12/2018	6:15	44	64	54	46	38	0.0	1.8	4.5	68	20	79	715
12/12/2018	6:30	43	55	50	45	38	0.0	1.8	4.5	68	20	78	715
12/12/2018	6:45	46	67	55	48	39	0.0	1.3	4.5	90	20	76	716
12/12/2018	7:00	45	59	53	48	39	0.0	1.8	4.0	68	21	73	716
12/12/2018	7:15	45	68	53	47	39	0.0	1.3	4.0	90	22	70	716
12/12/2018	7:30	44	58	52	47	37	0.0	1.3	4.5	90	22	67	716
12/12/2018	7:45	46	63	57	48	38	0.0	1.3	4.0	90	23	65	716
12/12/2018	8:00	42	57	51	45	35	0.0	1.3	3.1	90	23	64	716
12/12/2018	8:15	44	62	52	46	36	0.0	1.3	3.1	90	24	60	716
12/12/2018	8:30	52	67	62	59	34	0.0	1.3	4.5	90	24	61	716
12/12/2018	8:45	53	68	61	59	39	0.0	1.8	4.0	68	25	57	716
12/12/2018	9:00	51	64	61	55	38	0.0	1.8	4.9	90	25	55	716
12/12/2018	9:15	45	57	54	48	37	0.0	1.8	5.4	90	25	54	716
12/12/2018	9:30	49	65	62	51	37	0.0	1.8	4.9	90	26	52	716
12/12/2018	9:45	42	58	50	45	36	0.0	1.8	4.9	90	26	53	716
12/12/2018	10:00	50	64	60	56	37	0.0	1.3	4.5	90	27	52	716
12/12/2018	10:15	64	78	75	68	38	0.0	1.8	4.0	90	27	48	716
12/12/2018	10:30	68	84	80	72	38	0.0	1.3	5.4	113	27	48	716
12/12/2018	10:45	63	84	78	60	35	0.0	1.3	4.5	90	28	47	716
12/12/2018	11:00	63	75	72	68	42	0.0	1.3	4.5	90	28	46	715
12/12/2018	11:15	77	93	90	81	48	0.0	1.3	3.1	90	29	43	715
12/12/2018	11:30	73	91	85	77	36	0.0	1.3	4.5	90	29	44	715
12/12/2018	11:45	62	91	72	66	35	0.0	1.8	4.0	90	30	41	715
12/12/2018	12:00	47	59	54	52	35	0.0	1.3	4.5	90	30	41	715
12/12/2018	12:15	45	68	54	47	35	0.0	0.9	4.5	90	31	40	715
12/12/2018	12:30	51	73	64	53	35	0.0	1.8	4.5	90	31	40	714
12/12/2018	12:45	44	59	53	48	38	0.0	1.3	4.0	90	31	40	714
12/12/2018	13:00	46	60	52	48	40	0.0	1.3	4.9	113	31	39	714

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018	13:15	46	68	53	48	40	0.0	1.3	4.0	90	32	38	714
12/12/2018	13:30	47	67	56	49	41	0.0	1.3	4.5	90	32	38	714
12/12/2018	13:45	49	62	60	53	39	0.0	1.3	3.6	113	32	39	714
12/12/2018	14:00	47	71	55	50	40	0.0	1.8	4.5	90	32	40	713
12/12/2018	14:15	45	61	54	48	38	0.0	1.8	4.9	90	32	38	713
12/12/2018	14:30	47	62	56	50	39	0.0	1.8	4.9	90	31	39	713
12/12/2018	14:45	44	59	54	47	38	0.0	1.8	5.4	113	31	39	713
12/12/2018	15:00	46	62	54	50	39	0.0	1.8	4.5	90	32	39	713
12/12/2018	15:15	45	59	51	47	41	0.0	1.3	3.6	90	32	38	713
12/12/2018	15:30	46	61	54	48	43	0.0	1.3	5.4	90	32	39	713
12/12/2018	15:45	48	62	54	50	45	0.0	1.3	3.6	113	31	39	713
12/12/2018	16:00	48	69	57	50	43	0.0	1.3	4.0	90	31	40	713
12/12/2018	16:15	49	62	56	52	44	0.0	1.3	4.0	90	30	41	712
12/12/2018	16:30	49	65	56	52	45	0.0	1.8	4.5	90	30	42	712
12/12/2018	16:45	52	66	58	54	48	0.0	1.8	3.6	90	30	43	712
12/12/2018	17:00	53	68	60	55	49	0.0	1.3	4.9	90	29	43	712
12/12/2018	17:15	54	69	62	56	48	0.0	1.8	4.9	68	29	44	712
12/12/2018	17:30	55	69	61	57	50	0.0	2.7	5.4	68	29	45	712
12/12/2018	17:45	53	71	60	57	45	0.0	2.2	5.8	68	28	46	713
12/12/2018	18:00	64	79	65	64	63	0.0	2.7	5.4	68	28	47	713
12/12/2018	18:15	57	71	63	62	48	0.0	2.7	6.3	68	27	48	713
12/12/2018	18:30	57	83	68	54	46	0.0	2.7	5.8	45	26	51	713
12/12/2018	18:45	49	63	55	52	45	0.0	3.1	7.2	68	26	53	713
12/12/2018	19:00	46	70	54	49	41	0.0	3.1	7.2	45	25	55	713
12/12/2018	19:15	46	62	53	49	41	0.0	3.1	6.7	45	25	57	713
12/12/2018	19:30	45	64	53	48	40	0.0	3.1	7.2	45	24	59	713
12/12/2018	19:45	46	63	56	49	40	0.0	3.1	6.7	45	24	62	713
12/12/2018	20:00	49	66	56	52	43	0.0	3.6	7.2	45	23	63	713
12/12/2018	20:15	48	63	55	51	42	0.0	3.1	6.3	45	23	65	713
12/12/2018	20:30	48	66	56	51	42	0.0	2.2	6.3	45	23	66	713
12/12/2018	20:45	44	60	51	47	41	0.0	2.7	5.8	68	22	67	713
12/12/2018	21:00	44	59	51	47	40	0.0	2.7	5.8	68	22	69	714
12/12/2018	21:15	44	58	51	47	39	0.0	2.7	6.7	45	22	70	713
12/12/2018	21:30	42	57	49	44	38	0.0	2.7	6.3	45	21	72	714
12/12/2018	21:45	41	55	47	43	38	0.0	2.2	5.8	68	21	73	714
12/12/2018	22:00	40	54	45	42	38	0.0	2.2	5.4	68	21	75	714
12/12/2018	22:15	41	56	51	43	37	0.0	2.2	5.8	68	21	76	714
12/12/2018	22:30	39	53	46	41	35	0.0	2.2	6.3	68	21	77	714
12/12/2018	22:45	40	52	47	43	36	0.0	2.2	5.8	68	21	77	714
12/12/2018	23:00	42	61	48	44	38	0.0	1.8	4.9	90	20	77	714
12/12/2018	23:15	39	51	45	41	37	0.0	1.8	4.9	90	20	78	714
12/12/2018	23:30	39	55	45	41	36	0.0	1.3	2.7	90	20	79	714
12/12/2018	23:45	38	51	43	41	36	0.0	1.8	4.5	90	20	82	713
13/12/2018	0:00	41	58	52	44	35	0.0	1.3	3.6	68	20	82	713
13/12/2018	0:15	37	53	44	40	32	0.0	1.3	4.0	68	20	81	713
13/12/2018	0:30	33	45	39	36	30	0.0	0.9	2.7	90	20	81	713
13/12/2018	0:45	37	54	43	39	33	0.0	0.9	3.1	90	19	82	713
13/12/2018	1:00	41	55	47	43	37	0.0	0.9	2.7	90	19	82	713
13/12/2018	1:15	36	56	43	38	32	0.0	1.3	6.3	68	19	83	713
13/12/2018	1:30	40	60	48	42	36	0.0	1.3	4.5	90	19	84	712
13/12/2018	1:45	39	52	46	41	35	0.0	0.9	2.2	90	19	84	713
13/12/2018	2:00	41	55	51	43	36	0.0	0.4	2.7	90	19	84	712
13/12/2018	2:15	40	53	51	44	29	0.0	0.4	1.8	158	19	84	712
13/12/2018	2:30	39	52	51	39	29	0.0	0.9	4.5	90	19	84	711
13/12/2018	2:45	35	55	41	36	31	0.0	2.2	6.3	45	19	84	711
13/12/2018	3:00	35	50	43	38	31	0.0	1.8	5.4	68	19	85	712
13/12/2018	3:15	43	71	53	43	29	0.0	0.0	0.9	158	19	85	712
13/12/2018	3:30	47	71	60	45	30	0.0	0.0	1.3	90	19	86	712
13/12/2018	3:45	50	68	62	51	31	0.0	0.0	0.9	90	19	86	712
13/12/2018	4:00	43	59	53	49	29	0.0	0.0	0.9	90	18	86	712
13/12/2018	4:15	44	65	54	47	39	0.0	0.0	0.4	113	18	86	712
13/12/2018	4:30	44	60	54	47	39	0.0	0.0	0.9	90	18	86	712
13/12/2018	4:45	49	64	57	53	39	0.0	0.0	0.9	90	18	86	712
13/12/2018	5:00	46	61	56	50	39	0.0	0.0	0.4	113	18	87	713
13/12/2018	5:15	48	65	56	52	41	0.0	0.0	0.0	0	18	88	713
13/12/2018	5:30	42	58	49	43	41	0.0	0.0	0.0	0	18	88	713
13/12/2018	5:45	44	66	53	46	33	0.0	0.0	0.4	113	18	87	713
13/12/2018	6:00	46	72	57	47	30	0.0	0.0	0.9	113	19	85	713
13/12/2018	6:15	42	70	53	41	29	0.0	0.9	3.1	0	21	77	713
13/12/2018	6:30	41	64	54	41	29	0.0	1.3	3.6	0	22	75	713

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
13/12/2018 6:45	40	72	50	39	29	0.0	1.3	2.2	90	22	73	713
13/12/2018 7:00	40	68	52	42	28	0.0	0.9	2.2	158	22	74	713
13/12/2018 7:15	40	65	51	42	30	0.0	0.9	2.2	113	22	73	713
13/12/2018 7:30	46	62	57	51	30	0.0	0.4	2.7	90	22	72	713
13/12/2018 7:45	45	74	57	39	30	0.0	0.4	1.3	90	22	71	713
13/12/2018 8:00	41	65	50	44	32	0.0	0.4	1.8	158	22	70	713
13/12/2018 8:15	45	61	55	50	33	0.0	0.4	1.8	90	23	69	713
13/12/2018 8:30	44	58	52	50	36	0.0	0.9	2.7	158	24	66	713
13/12/2018 8:45	43	60	50	46	38	0.0	1.3	3.1	158	25	63	713
13/12/2018 9:00	47	64	58	50	37	0.0	1.3	3.6	90	25	62	713
13/12/2018 9:15	45	59	52	48	38	0.0	1.3	3.6	90	25	61	712
13/12/2018 9:30	41	58	48	43	36	0.0	1.3	3.1	90	25	59	712
13/12/2018 9:45	45	65	54	48	38	0.0	1.3	3.1	90	26	58	712
13/12/2018 10:00	44	60	53	48	37	0.0	1.3	4.5	90	27	55	712
13/12/2018 10:15	42	59	50	46	36	0.0	1.8	3.6	0	27	54	712
13/12/2018 10:30	43	66	52	46	35	0.0	1.3	4.9	90	28	64	712
13/12/2018 10:45	46	66	54	49	37	0.6	0.0	0.0	0	32	53	712
13/12/2018 11:00	45	64	54	48	37	0.0	0.0	0.0	0	33	45	712
13/12/2018 11:15	46	73	55	47	36	1.0	0.0	0.0	0	33	47	712
13/12/2018 11:30	44	59	51	47	37	0.0	0.0	0.0	0	33	48	711
13/12/2018 11:45	45	60	53	48	38	0.0	0.0	0.0	0	33	49	711
13/12/2018 12:00	48	61	57	51	37	0.6	0.0	0.0	0	32	50	709
13/12/2018 12:15	48	67	58	50	41	0.2	0.0	0.0	0	32	48	701
13/12/2018 12:30	47	69	60	49	35	0.2	0.0	0.0	0	32	47	704
13/12/2018 12:45	47	70	60	48	35	0.0	0.0	0.0	0	31	48	705
13/12/2018 13:00	43	59	52	48	35	1.2	0.0	0.0	0	31	48	704
13/12/2018 13:15	45	62	52	50	36	0.2	0.0	0.0	0	31	46	745
13/12/2018 13:30	46	61	53	49	36	0.8	0.0	0.0	0	31	45	745
13/12/2018 13:45	44	64	54	48	34	0.6	0.0	0.0	0	30	45	730
13/12/2018 14:00	60	73	71	62	33	0.0	0.0	0.0	0	30	47	729
13/12/2018 14:15	62	74	66	64	61	0.0	0.0	0.0	0	30	48	729
13/12/2018 14:30	61	81	66	65	42	0.0	0.0	0.0	0	30	49	729
13/12/2018 14:45	44	70	52	46	36	1.4	0.0	0.0	0	30	48	744
13/12/2018 15:00	40	58	49	42	34	0.4	0.0	0.0	0	31	45	741
13/12/2018 15:15	48	62	56	52	39	0.2	0.0	0.0	0	30	42	738
13/12/2018 15:30	47	66	55	50	41	2.4	0.0	0.0	0	30	40	732
13/12/2018 15:45	46	59	54	49	39	1.2	0.0	0.0	0	30	40	707
13/12/2018 16:00	47	63	54	50	42	1.2	0.0	0.0	0	29	39	707
13/12/2018 16:15	48	63	56	51	43	0.0	0.0	0.0	0	29	41	707
13/12/2018 16:30	45	63	55	48	39	0.0	0.0	0.0	0	29	42	707
13/12/2018 16:45	44	60	54	46	38	0.2	0.0	0.0	0	29	43	707
13/12/2018 17:00	45	57	52	47	40	0.2	0.0	0.0	0	29	43	706
13/12/2018 17:15	55	72	70	52	36	0.6	0.0	0.0	0	29	40	699
13/12/2018 17:30	50	69	60	52	35	0.0	0.0	0.0	0	29	40	703
13/12/2018 17:45	60	81	65	64	37	0.0	0.0	0.0	0	29	40	703
13/12/2018 18:00	62	70	65	64	57	0.0	0.0	0.0	0	28	41	703
13/12/2018 18:15	57	61	59	58	54	0.0	0.0	0.0	0	28	41	704
13/12/2018 18:30	48	79	55	44	38	0.0	0.0	0.0	0	28	42	704
13/12/2018 18:45	50	75	57	56	37	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:00	51	59	57	55	44	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:15	40	52	47	42	36	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:30	38	52	46	40	34	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:45	37	53	41	39	35	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:00	39	51	43	41	35	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:15	40	52	45	42	35	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:30	35	52	41	38	30	0.0	0.0	0.0	0	28	43	705
13/12/2018 20:45	35	49	43	38	31	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:00	38	53	51	39	34	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:15	37	61	42	39	34	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:30	34	46	40	35	32	0.0	0.0	0.0	0	28	43	704
13/12/2018 21:45	38	50	46	42	31	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:00	35	48	41	37	33	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:15	36	48	41	38	34	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:30	38	53	51	39	33	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:45	35	48	41	37	33	0.0	0.0	0.0	0	29	43	704
13/12/2018 23:00	38	51	45	40	34	0.0	0.0	0.0	0	28	43	704
13/12/2018 23:15	47	60	54	51	38	0.0	0.0	0.0	0	28	43	704
13/12/2018 23:30	48	66	55	51	45	0.0	0.0	0.0	0	29	43	704
13/12/2018 23:45	43	59	50	46	34	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:00	35	43	39	36	33	0.0	0.0	0.0	0	28	43	704

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
14/12/2018 0:15	34	48	42	35	33	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:30	36	53	51	36	32	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:45	33	48	41	34	31	0.0	0.0	0.0	0	28	43	704
14/12/2018 1:00	34	45	42	35	32	0.0	0.0	0.0	0	28	43	702
14/12/2018 1:15	34	56	42	35	32	0.0	0.0	0.0	0	28	43	703
14/12/2018 1:30	32	44	39	34	29	0.0	0.0	0.0	0	28	43	703
14/12/2018 1:45	31	42	36	33	29	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:00	32	43	39	34	28	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:15	42	52	48	46	36	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:30	45	54	53	51	39	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:45	41	55	49	43	35	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:00	36	53	45	36	29	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:15	40	61	51	41	35	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:30	42	59	51	45	34	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:45	47	67	58	48	42	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:00	43	63	53	44	37	0.0	0.0	0.0	0	28	43	704
14/12/2018 4:15	41	64	50	43	34	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:30	47	77	56	48	34	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:45	44	63	55	48	33	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:00	41	65	50	38	31	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:15	48	74	58	45	32	0.0	0.0	0.0	0	28	43	704
14/12/2018 5:30	45	64	56	49	36	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:45	43	63	54	47	32	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:00	41	58	53	42	31	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:15	43	69	54	46	34	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:30	43	62	53	45	38	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:45	51	76	59	48	39	0.0	0.0	0.0	0	28	44	704
14/12/2018 7:00	47	66	58	50	40	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:15	42	67	52	43	35	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:30	42	65	52	44	33	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:45	52	68	65	55	34	0.6	0.0	0.0	0	27	44	703
14/12/2018 8:00	38	57	49	41	32	0.4	0.0	0.0	0	27	42	701
14/12/2018 8:15	36	57	46	38	29	0.0	0.0	0.0	0	27	41	705
14/12/2018 8:30	41	62	53	42	31	0.2	0.0	0.0	0	27	41	710
14/12/2018 8:45	38	59	44	40	34	0.0	0.0	0.0	0	27	42	710
14/12/2018 9:00	44	62	58	43	33	0.0	0.0	0.0	0	26	43	710
14/12/2018 9:15	53	74	65	57	36	0.8	0.0	0.0	0	26	43	705
14/12/2018 9:30	41	53	52	41	35	0.4	0.0	0.0	0	26	43	707
14/12/2018 9:45	41	63	49	44	36	0.2	0.0	0.0	0	26	43	707
14/12/2018 10:00	42	58	50	45	35	0.0	0.0	0.0	0	26	44	707

Noise Monitoring Data Sheet

Inland Rail

SITE ID

B2G_11

From	Friday 7/12/2018 12:45	Calibrator Type	Quest QC-20	RP Lot#	31SP146103
To	Friday 14/12/2018 11:45	Cal. Serial No.	CA-BNE-04-F-154	Package	Border to Gowrie
Instrument Type	Rion NL-52	Meas. Type	Free Field	Address	21A Jannuschs Road
Instrument Serial #	00164395	Mic. Height (m)	1.8	Suburb	Gowrie Mountain
Inst. Cal. Date	18/05/2018	Weather Station	No	Land Use	Residential
Pre Calibration	94	Operator	JR	Latitude	27°30'59.45"S
Post Calibration	93.9	Sample Int.	15 min	Longitude	151°49'14.72"E

Daytime		Evening		Night	
RBL	**34.7 dB(A)**	RBL	**30.7 dB(A)**	RBL	**26.3 dB(A)**
ABLs Day (Mon-Fri 7am - 6 pm)		ABLs Evening (Mon-Fri 6 pm - 10 pm)		ABLs Night (Mon - Thu, Sat - Sun 6pm - 7am)	
ABLs Day (Sat 8 am - 1 pm)		ABLs Evening (Sat 1 pm - 10 pm)		ABLs Night (Fri 6pm - 8am)	
		ABLs Evening (Sun 7 am - 10 pm)			
Friday 7/12/2018	38 dB(A)	Friday 7/12/2018	30.7 dB(A)	Friday 7/12/2018	28.6 dB(A)
Saturday 8/12/2018	35.8 dB(A)	Saturday 8/12/2018	29.1 dB(A)	Saturday 8/12/2018	24.0 dB(A)
		Sunday 9/12/2018	32.1 dB(A)	Sunday 9/12/2018	25.2 dB(A)
Monday 10/12/2018	31.9 dB(A)	Monday 10/12/2018	29.9 dB(A)	Monday 10/12/2018	27.9 dB(A)
Tuesday 11/12/2018	33.3 dB(A)	Tuesday 11/12/2018	32.4 dB(A)	Tuesday 11/12/2018	24.5 dB(A)
Wednesday 12/12/2018	31.4 dB(A)	Wednesday 12/12/2018	35.9 dB(A)	Wednesday 12/12/2018	27.6 dB(A)
Thursday 13/12/2018	34.7 dB(A)	Thursday 13/12/2018	29.5 dB(A)	Thursday 13/12/2018	26.3 dB(A)
Friday 14/12/2018	36.7 dB(A)				

Site Diagram - Diagram

Future Freight
Integrating Community, Environment and Engineering

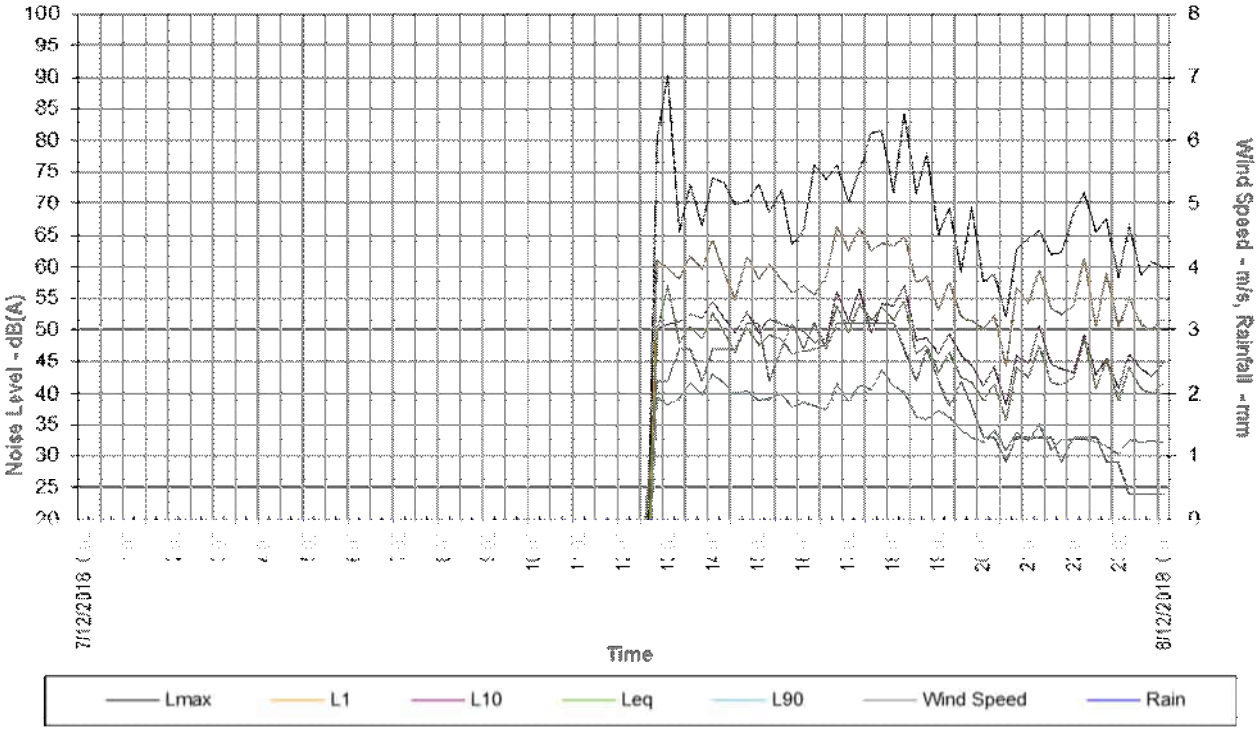
Site Attended Measurements Summary

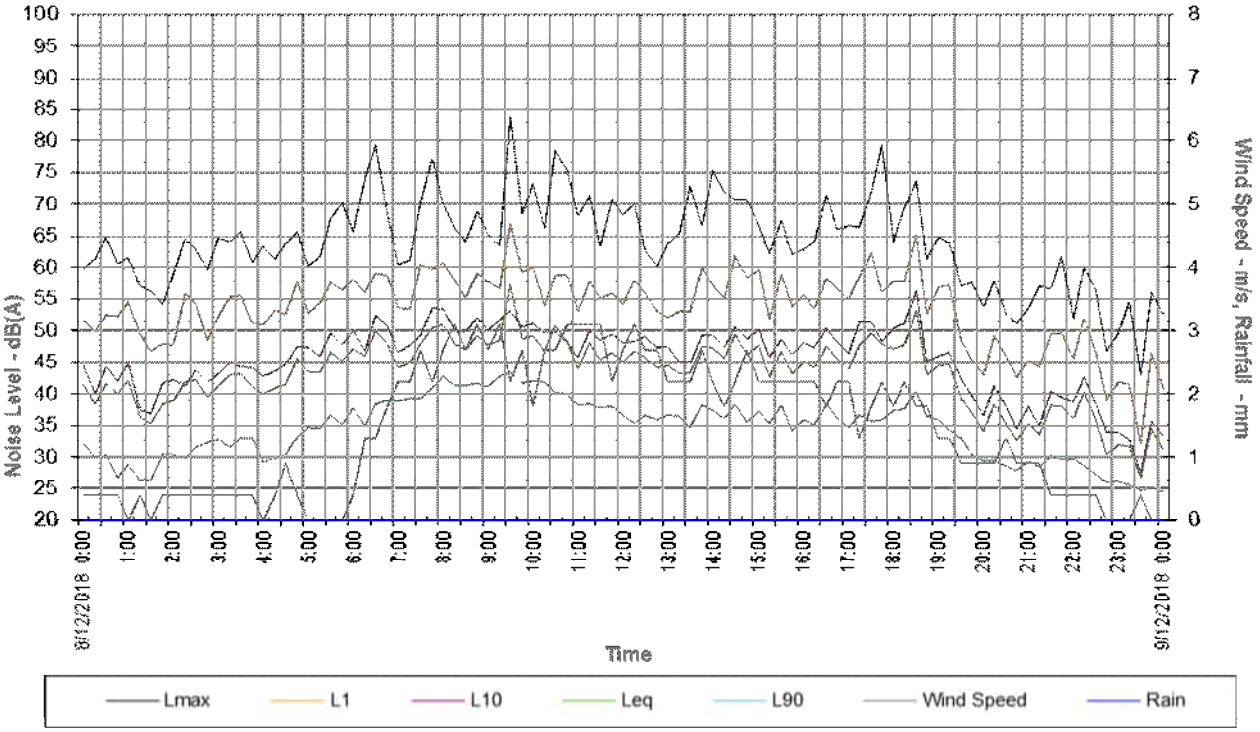
Date	Start	Measurement Type	Lmax	L1	L10	L90	Leq	Weather Conditions Comply	End
7/12/2018	12:45 PM	Attended	88.8	53.7	47.9	38.3	51.8	Pass	1:00 PM
		Logged	80.7	61.0	50.0	39.5	49.8		
		Difference	8.1	-7.3	-2.1	-1.2	2.0		
Comments	Difference cause by taking handheld attended measurements. Background is wind noise at 42 dB(A). Bird noise at 45-88 dB(A). Local road traffic inaudible.								
14/12/2018	11:30 AM	Attended	70.9	58.6	45.7	38.0	46.3	Pass	11:45 AM
		Logged	74.3	55.6	49.3	40.6	47.6		
		Difference	-3.4	3.0	-3.6	-2.6	-1.3		
Comments	Difference cause by taking handheld attended measurements. Background is wind noise from nearby trees at 46 dB(A). Bird noise at 47-70 dB(A). Warrego highway traffic barely audible. Twin turboprop aircraft flyover at 59 dB(A).								

Photos

Site Noise and Weather Graphical Analysis

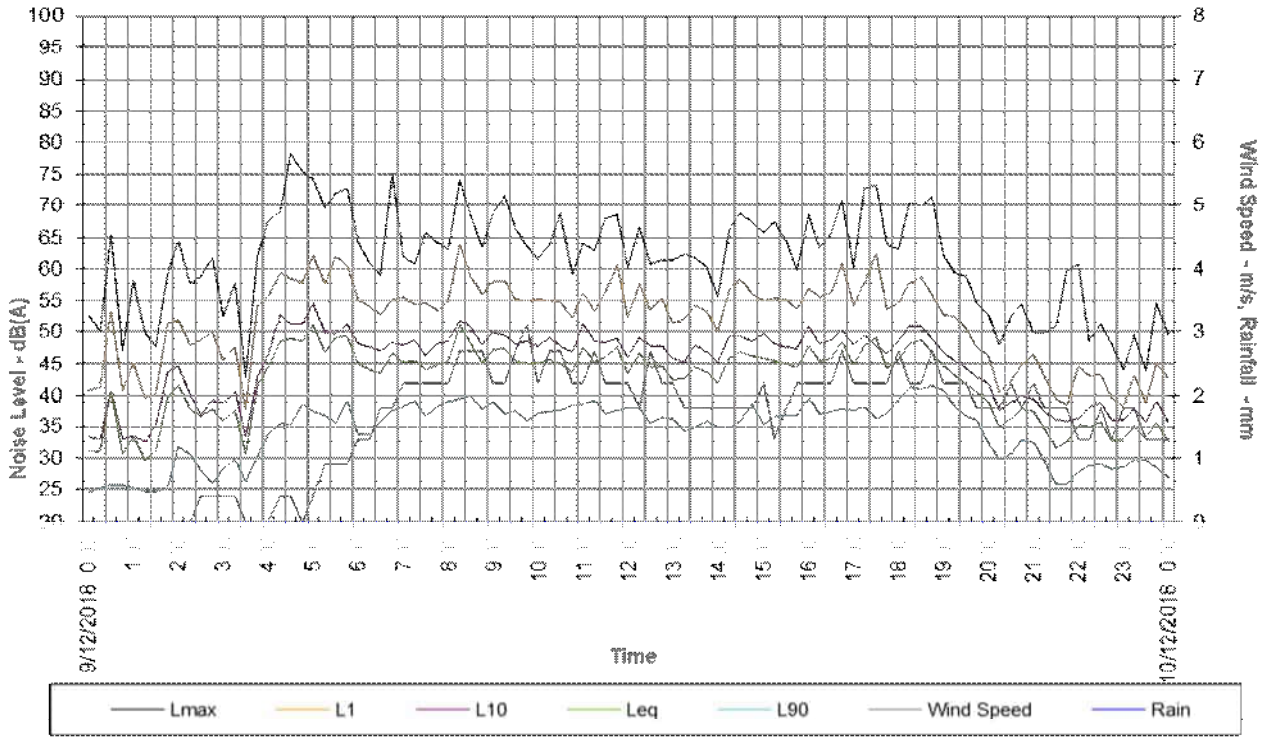
21A Jannuschs Road

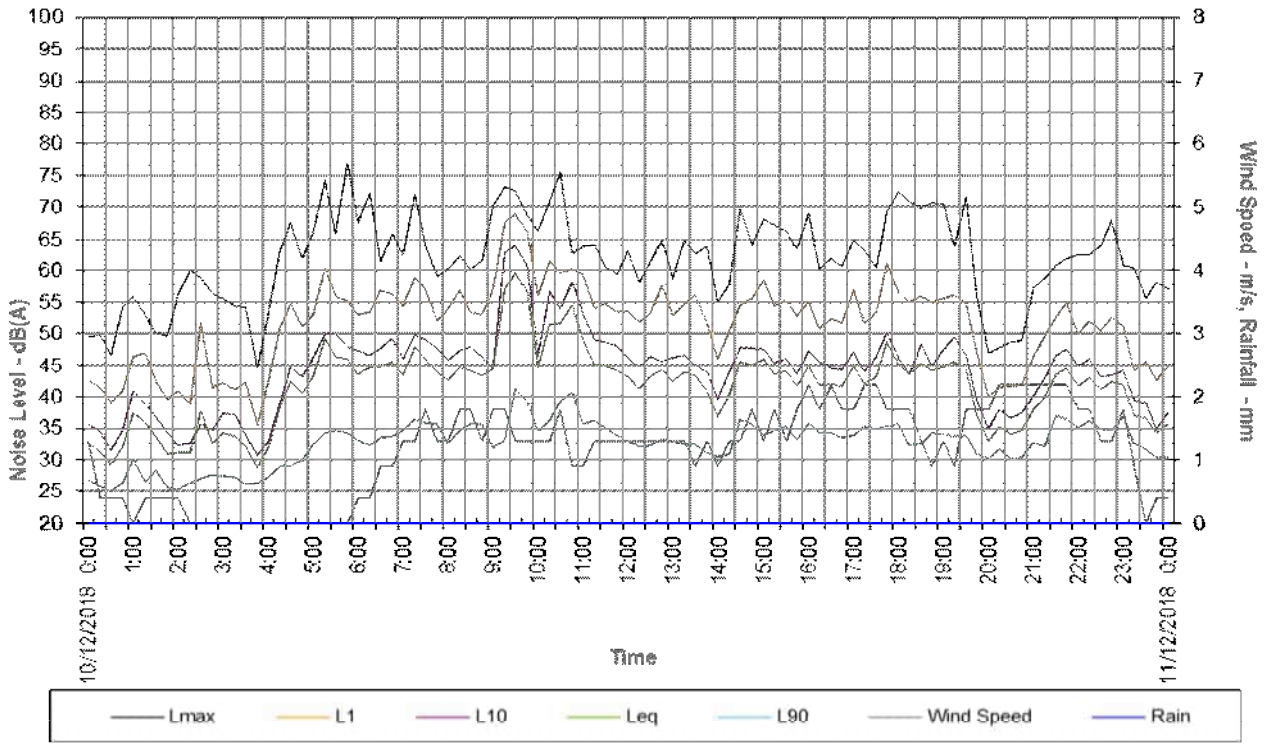




Site Noise and Weather Graphical Analysis

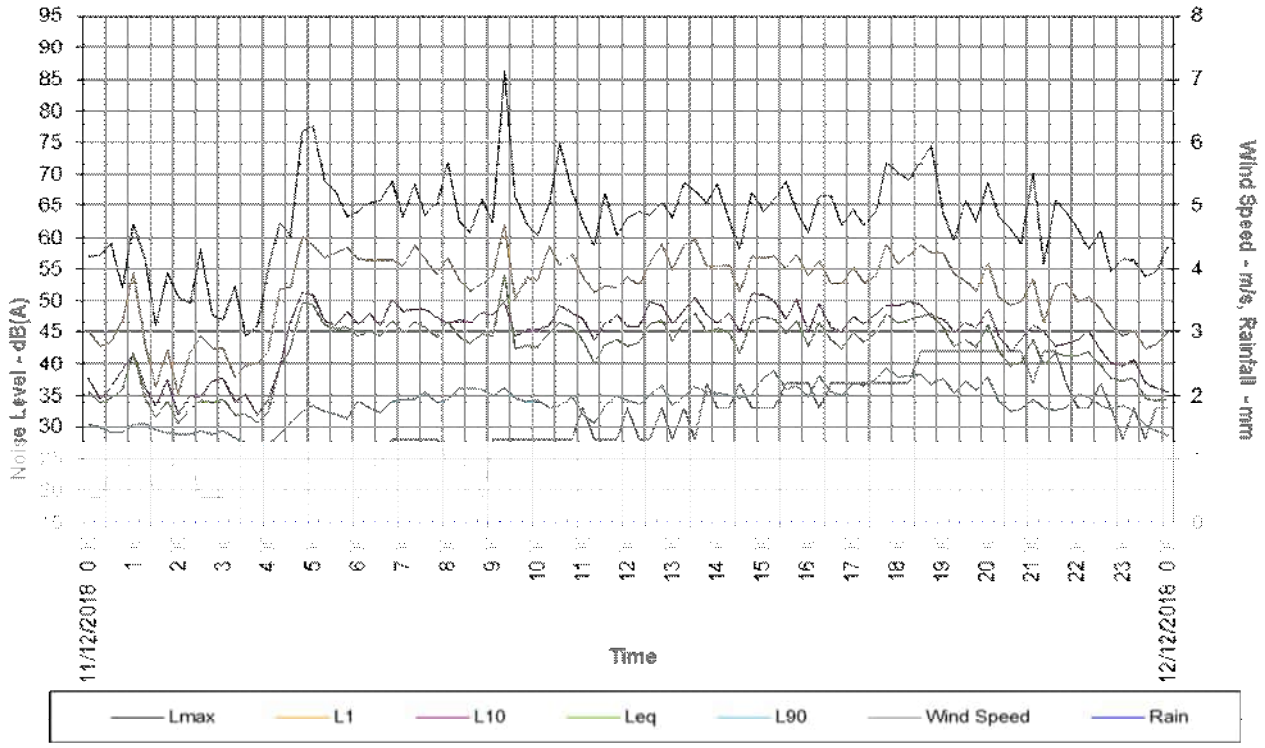
21A Jannuschs Road

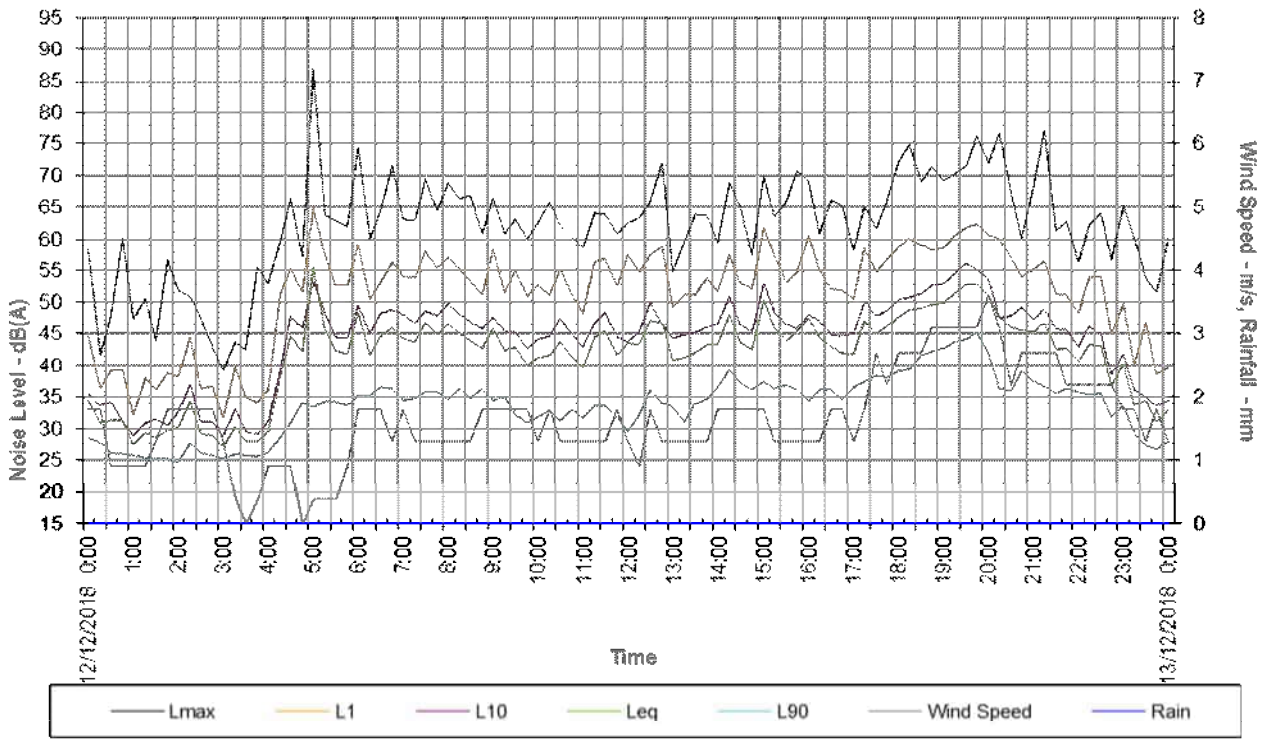




Site Noise and Weather Graphical Analysis

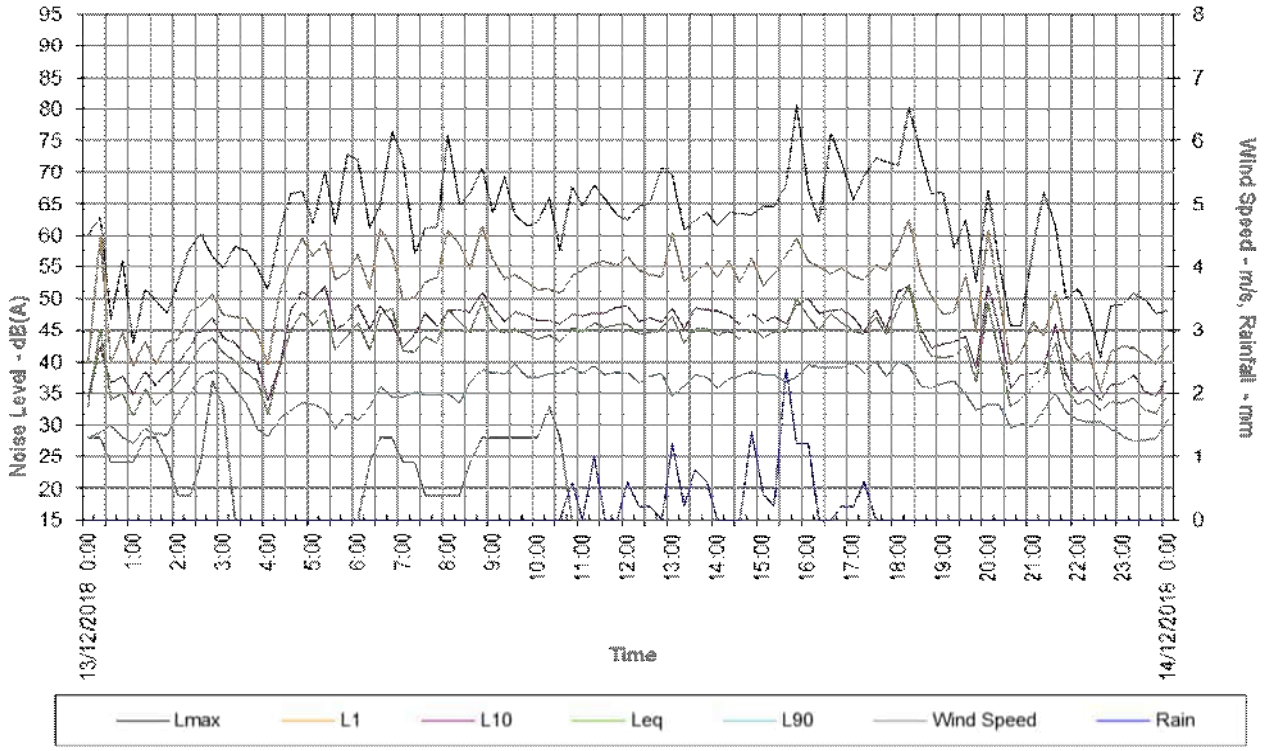
21A Jannuschs Road

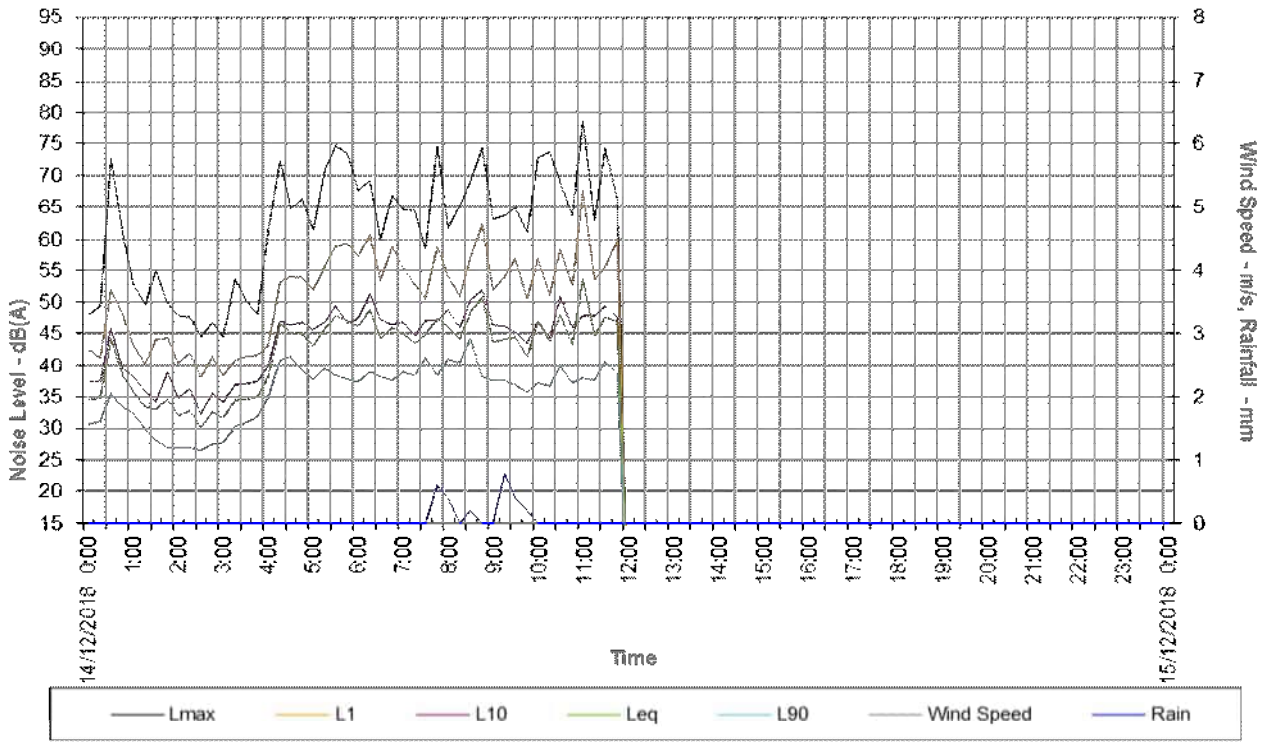




Site Noise and Weather Graphical Analysis

21A Jannuschs Road





Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
7/12/2018 12:45	50	81	61	50	40	0.0	2.2	5.4	113	26	44	720
7/12/2018 13:00	57	90	60	51	38	0.0	2.2	6.3	68	25	45	720
7/12/2018 13:15	48	66	58	51	39	0.0	2.7	5.4	90	25	45	719
7/12/2018 13:30	51	73	62	52	42	0.0	2.7	6.3	113	25	44	719
7/12/2018 13:45	49	66	60	52	40	0.0	2.2	5.8	113	26	42	719
7/12/2018 14:00	53	74	64	55	43	0.0	2.7	6.7	90	25	43	719
7/12/2018 14:15	50	73	59	52	42	0.0	2.7	6.3	68	25	46	719
7/12/2018 14:30	47	70	55	50	40	0.0	2.7	5.4	68	24	48	719
7/12/2018 14:45	50	71	62	53	40	0.0	3.1	7.2	45	25	49	719
7/12/2018 15:00	48	73	58	50	39	0.0	3.1	6.3	68	25	47	719
7/12/2018 15:15	49	69	60	52	39	0.0	2.2	6.7	45	25	47	719
7/12/2018 15:30	49	72	58	51	40	0.0	2.7	6.3	68	25	49	718
7/12/2018 15:45	46	64	56	50	38	0.0	3.1	8.0	45	25	48	719
7/12/2018 16:00	47	66	57	50	39	0.0	2.7	8.0	45	24	48	719
7/12/2018 16:15	47	76	56	48	38	0.0	3.1	6.7	45	24	48	718
7/12/2018 16:30	48	74	59	49	37	0.0	2.7	6.3	68	24	50	718
7/12/2018 16:45	54	76	66	56	42	0.0	3.1	6.7	68	24	48	718
7/12/2018 17:00	50	70	63	51	39	0.0	3.1	6.3	45	23	49	718
7/12/2018 17:15	54	75	66	56	41	0.0	3.1	7.2	45	23	52	719
7/12/2018 17:30	52	81	63	49	41	0.0	3.1	7.2	45	22	55	719
7/12/2018 17:45	54	81	64	54	44	0.0	3.1	6.3	90	22	57	719
7/12/2018 18:00	52	72	63	54	41	0.0	3.1	7.2	45	21	59	719
7/12/2018 18:15	55	84	65	57	40	0.0	2.7	6.3	90	21	60	719
7/12/2018 18:30	46	72	58	48	36	0.0	2.2	4.9	90	20	62	719
7/12/2018 18:45	48	78	59	49	36	0.0	2.7	5.8	68	20	64	719
7/12/2018 19:00	43	65	53	46	37	0.0	2.2	6.3	90	20	66	720
7/12/2018 19:15	47	69	58	49	36	0.0	1.8	5.4	90	19	66	720
7/12/2018 19:30	42	59	52	46	34	0.0	2.2	5.4	68	19	68	720
7/12/2018 19:45	42	69	51	44	33	0.0	1.8	4.0	90	18	71	720
7/12/2018 20:00	39	58	50	41	32	0.0	1.3	6.3	113	18	73	720
7/12/2018 20:15	42	59	52	44	34	0.0	1.3	4.0	90	18	74	720
7/12/2018 20:30	36	52	44	38	31	0.0	0.9	3.1	90	18	75	720
7/12/2018 20:45	44	63	57	46	34	0.0	1.3	4.0	90	17	76	720
7/12/2018 21:00	43	65	54	45	32	0.0	1.3	3.1	90	17	76	720
7/12/2018 21:15	48	66	60	51	35	0.0	1.3	3.6	90	17	75	720
7/12/2018 21:30	42	62	53	45	31	0.0	1.3	3.6	113	17	75	720
7/12/2018 21:45	41	62	53	44	32	0.0	0.9	3.1	90	17	75	720
7/12/2018 22:00	42	68	54	43	33	0.0	1.3	3.6	90	17	76	721
7/12/2018 22:15	49	72	62	49	33	0.0	1.3	4.0	90	17	76	720
7/12/2018 22:30	41	66	51	43	32	0.0	1.3	3.6	113	17	77	720
7/12/2018 22:45	45	68	59	46	32	0.0	0.9	3.1	90	16	78	720
7/12/2018 23:00	39	58	51	41	30	0.0	0.9	2.2	113	16	79	720
7/12/2018 23:15	44	67	55	46	32	0.0	0.4	3.1	113	16	79	720
7/12/2018 23:30	41	59	51	44	32	0.0	0.4	2.7	113	16	78	720
7/12/2018 23:45	40	61	50	43	32	0.0	0.4	3.1	113	16	78	720
8/12/2018 0:00	42	60	52	45	32	0.0	0.4	3.1	113	16	77	720
8/12/2018 0:15	38	61	50	40	30	0.0	0.4	2.2	113	16	78	720
8/12/2018 0:30	42	65	53	44	30	0.0	0.4	1.8	113	16	78	720
8/12/2018 0:45	40	61	52	42	27	0.0	0.4	1.8	113	16	78	719
8/12/2018 1:00	42	62	55	45	29	0.0	0.0	1.3	113	16	78	719
8/12/2018 1:15	36	57	49	37	27	0.0	0.4	1.3	113	16	76	719
8/12/2018 1:30	35	56	47	37	27	0.0	0.0	1.3	113	16	77	719
8/12/2018 1:45	38	54	48	42	30	0.0	0.4	1.8	113	16	76	719
8/12/2018 2:00	39	59	48	42	30	0.0	0.4	2.2	113	16	76	719
8/12/2018 2:15	42	65	56	41	30	0.0	0.4	1.3	113	16	76	719
8/12/2018 2:30	42	63	54	44	32	0.0	0.4	1.8	113	16	76	719
8/12/2018 2:45	39	60	49	42	32	0.0	0.4	1.8	113	16	77	719
8/12/2018 3:00	41	65	52	43	33	0.0	0.4	3.1	113	16	77	719
8/12/2018 3:15	43	64	55	45	32	0.0	0.4	2.2	113	16	78	719
8/12/2018 3:30	43	66	56	44	33	0.0	0.4	2.7	113	16	79	719
8/12/2018 3:45	41	61	51	44	33	0.0	0.4	1.3	113	15	79	719
8/12/2018 4:00	40	64	51	43	29	0.0	0.0	1.3	113	15	79	719
8/12/2018 4:15	41	61	53	44	30	0.0	0.4	1.8	113	15	79	719
8/12/2018 4:30	42	64	53	45	30	0.0	0.9	2.7	113	15	79	719
8/12/2018 4:45	46	66	58	48	33	0.0	0.4	1.8	113	15	79	719
8/12/2018 5:00	44	60	53	47	35	0.0	0.0	0.9	113	15	79	719
8/12/2018 5:15	44	62	54	46	35	0.0	0.0	0.9	113	15	80	719
8/12/2018 5:30	47	68	58	50	37	0.0	0.0	0.9	113	15	79	719
8/12/2018 5:45	45	70	56	48	35	0.0	0.0	1.3	113	16	77	719
8/12/2018 6:00	47	66	58	50	38	0.0	0.4	2.2	113	17	75	719

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018 6:15	46	74	56	47	35	0.0	1.3	3.1	113	18	73	720
8/12/2018 6:30	50	79	59	53	38	0.0	1.3	4.0	113	18	72	720
8/12/2018 6:45	48	69	59	51	39	0.0	1.8	4.5	113	18	72	720
8/12/2018 7:00	44	61	54	47	39	0.0	2.2	6.7	90	19	71	720
8/12/2018 7:15	45	61	53	48	39	0.0	2.2	6.7	90	19	70	720
8/12/2018 7:30	48	70	61	49	39	0.0	2.7	5.4	90	19	69	720
8/12/2018 7:45	51	77	60	54	41	0.0	2.2	6.7	90	20	67	720
8/12/2018 8:00	51	70	61	54	43	0.0	2.7	6.3	90	20	65	720
8/12/2018 8:15	48	66	58	50	41	0.0	3.1	8.0	90	21	63	720
8/12/2018 8:30	47	64	55	50	41	0.0	2.7	6.3	90	21	61	720
8/12/2018 8:45	49	69	59	52	42	0.0	3.1	6.7	68	22	60	720
8/12/2018 9:00	48	65	58	50	41	0.0	2.7	7.2	68	22	58	720
8/12/2018 9:15	49	64	57	52	43	0.0	3.1	6.3	68	22	60	720
8/12/2018 9:30	57	84	67	53	44	0.0	2.2	6.3	90	23	57	720
8/12/2018 9:45	49	69	59	51	42	0.0	2.7	6.3	68	23	56	720
8/12/2018 10:00	49	73	60	51	42	0.0	1.8	5.8	68	23	56	720
8/12/2018 10:15	47	66	54	50	42	0.0	2.7	8.9	90	23	57	720
8/12/2018 10:30	51	79	59	50	40	0.0	2.7	5.8	90	23	56	720
8/12/2018 10:45	48	75	59	48	40	0.0	3.1	7.2	45	24	56	719
8/12/2018 11:00	44	68	53	46	38	0.0	3.1	6.7	68	24	56	720
8/12/2018 11:15	48	71	58	50	38	0.0	3.1	6.3	68	24	56	720
8/12/2018 11:30	46	63	55	49	38	0.0	3.1	7.2	68	23	59	720
8/12/2018 11:45	47	71	56	50	38	0.0	2.2	5.8	68	23	58	719
8/12/2018 12:00	45	68	54	48	37	0.0	2.7	5.4	68	23	59	719
8/12/2018 12:15	47	70	58	48	35	0.0	3.1	5.8	68	24	58	719
8/12/2018 12:30	46	63	56	49	37	0.0	2.7	6.7	90	23	60	719
8/12/2018 12:45	44	60	53	47	36	0.0	2.7	6.3	68	24	58	719
8/12/2018 13:00	45	64	52	48	37	0.0	2.2	5.8	68	23	58	719
8/12/2018 13:15	43	66	53	45	37	0.0	2.2	5.8	68	24	57	719
8/12/2018 13:30	44	73	53	45	35	0.0	2.2	6.3	68	23	58	719
8/12/2018 13:45	48	67	60	49	38	0.0	2.7	6.3	68	23	60	719
8/12/2018 14:00	47	75	57	49	37	0.0	2.2	4.9	90	22	62	719
8/12/2018 14:15	46	72	55	47	36	0.0	1.8	6.7	90	23	61	719
8/12/2018 14:30	50	71	62	51	38	0.0	2.2	4.9	90	23	60	719
8/12/2018 14:45	46	71	58	49	36	0.0	2.7	5.4	68	23	59	719
8/12/2018 15:00	48	67	60	50	37	0.0	2.2	5.8	68	23	58	719
8/12/2018 15:15	43	62	52	46	35	0.0	2.2	5.8	68	23	58	718
8/12/2018 15:30	47	68	59	49	38	0.0	2.2	4.9	90	24	54	718
8/12/2018 15:45	43	62	54	46	34	0.0	2.2	4.9	68	23	54	718
8/12/2018 16:00	45	63	56	48	36	0.0	2.2	5.4	68	23	57	719
8/12/2018 16:15	44	64	54	47	35	0.0	2.2	4.9	68	23	56	719
8/12/2018 16:30	48	72	58	50	38	0.0	1.8	4.5	90	24	55	718
8/12/2018 16:45	46	66	57	48	36	0.0	2.2	4.9	90	24	54	718
8/12/2018 17:00	44	67	55	46	35	0.0	2.2	4.9	90	23	55	718
8/12/2018 17:15	48	67	59	51	37	0.0	1.3	4.0	113	24	55	718
8/12/2018 17:30	50	72	62	51	36	0.0	1.8	4.9	113	23	56	719
8/12/2018 17:45	48	79	56	48	36	0.0	2.2	4.9	90	22	59	719
8/12/2018 18:00	47	64	58	51	37	0.0	1.8	4.0	113	22	58	719
8/12/2018 18:15	48	70	58	51	38	0.0	2.2	4.9	90	22	60	719
8/12/2018 18:30	53	74	65	56	40	0.0	1.8	5.4	113	21	62	719
8/12/2018 18:45	43	61	53	45	37	0.0	1.8	4.0	90	21	62	719
8/12/2018 19:00	45	65	57	46	36	0.0	1.3	3.6	90	20	63	720
8/12/2018 19:15	45	64	57	47	34	0.0	1.3	4.0	113	20	65	720
8/12/2018 19:30	39	57	49	42	33	0.0	0.9	2.7	113	20	66	720
8/12/2018 19:45	37	58	46	40	30	0.0	0.9	3.6	113	19	68	720
8/12/2018 20:00	34	54	43	37	30	0.0	0.9	3.1	113	19	69	720
8/12/2018 20:15	38	58	49	41	29	0.0	0.9	2.7	113	19	70	720
8/12/2018 20:30	35	53	46	38	29	0.0	1.3	2.7	90	18	71	720
8/12/2018 20:45	33	51	43	35	28	0.0	0.9	3.1	90	18	73	720
8/12/2018 21:00	35	54	45	38	29	0.0	0.9	3.1	113	18	74	720
8/12/2018 21:15	34	57	44	35	28	0.0	0.9	2.7	90	18	74	720
8/12/2018 21:30	38	57	50	40	30	0.0	0.4	2.7	113	18	75	720
8/12/2018 21:45	38	62	50	39	30	0.0	0.4	2.2	113	17	76	720
8/12/2018 22:00	36	52	46	39	30	0.0	0.4	1.3	90	17	77	720
8/12/2018 22:15	40	60	52	43	29	0.0	0.4	1.3	113	17	77	720
8/12/2018 22:30	36	56	47	38	27	0.0	0.4	1.8	113	17	78	720
8/12/2018 22:45	30	47	39	34	26	0.0	0.0	1.3	113	16	80	720
8/12/2018 23:00	32	50	42	34	26	0.0	0.0	0.4	113	16	81	720
8/12/2018 23:15	32	55	42	33	26	0.0	0.0	0.9	90	16	81	720
8/12/2018 23:30	27	43	32	28	25	0.0	0.4	1.8	113	16	81	720

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
8/12/2018	23:45	35	56	47	36	25	0.0	0.0	1.8	90	16	82	719
9/12/2018	0:00	31	53	41	33	25	0.0	0.0	0.9	113	16	83	719
9/12/2018	0:15	31	50	41	33	25	0.0	0.0	1.3	113	15	84	719
9/12/2018	0:30	41	66	54	41	26	0.0	0.0	1.3	113	15	84	719
9/12/2018	0:45	31	47	41	33	26	0.0	0.0	1.3	113	15	85	719
9/12/2018	1:00	33	58	45	34	25	0.0	0.0	0.9	113	15	84	719
9/12/2018	1:15	30	50	40	33	25	0.0	0.0	0.4	113	14	87	719
9/12/2018	1:30	31	48	40	35	25	0.0	0.0	0.9	113	14	87	719
9/12/2018	1:45	40	59	51	44	25	0.0	0.0	1.3	90	14	88	719
9/12/2018	2:00	42	64	52	45	32	0.0	0.0	1.3	113	15	86	718
9/12/2018	2:15	38	58	48	40	31	0.0	0.0	1.3	113	15	86	718
9/12/2018	2:30	37	59	49	37	28	0.0	0.4	1.8	113	15	85	718
9/12/2018	2:45	38	62	50	39	26	0.0	0.4	1.8	113	15	85	718
9/12/2018	3:00	36	53	46	39	28	0.0	0.4	2.2	113	15	85	718
9/12/2018	3:15	38	58	48	41	30	0.0	0.4	1.8	113	14	85	718
9/12/2018	3:30	31	43	38	33	26	0.0	0.0	0.9	113	14	86	718
9/12/2018	3:45	42	62	54	43	30	0.0	0.0	0.9	113	14	86	718
9/12/2018	4:00	44	68	56	46	34	0.0	0.0	0.4	113	14	86	718
9/12/2018	4:15	49	69	60	53	36	0.0	0.4	1.3	113	15	86	718
9/12/2018	4:30	49	78	59	51	35	0.0	0.4	1.8	113	15	86	718
9/12/2018	4:45	49	75	58	51	39	0.0	0.0	1.3	113	15	86	718
9/12/2018	5:00	51	74	62	55	37	0.0	0.4	2.2	113	15	87	718
9/12/2018	5:15	47	70	58	50	37	0.0	0.9	3.1	113	16	85	718
9/12/2018	5:30	49	72	62	50	36	0.0	0.9	3.6	113	16	84	718
9/12/2018	5:45	49	73	61	51	39	0.0	0.9	2.7	113	17	80	718
9/12/2018	6:00	45	64	55	48	34	0.0	1.3	4.0	113	18	77	718
9/12/2018	6:15	44	61	54	48	34	0.0	1.3	4.0	113	19	75	718
9/12/2018	6:30	44	59	53	47	36	0.0	1.8	4.9	90	19	75	718
9/12/2018	6:45	47	75	55	48	38	0.0	1.8	4.5	113	19	75	719
9/12/2018	7:00	45	62	56	48	38	0.0	2.2	5.8	113	20	72	719
9/12/2018	7:15	46	61	54	49	39	0.0	2.2	5.4	90	21	71	719
9/12/2018	7:30	44	66	55	46	37	0.0	2.2	5.4	113	21	70	719
9/12/2018	7:45	45	64	53	48	38	0.0	2.2	5.4	90	22	67	719
9/12/2018	8:00	46	63	55	49	39	0.0	2.2	5.8	90	22	66	719
9/12/2018	8:15	51	74	64	52	39	0.0	2.7	5.8	90	23	64	719
9/12/2018	8:30	48	69	59	51	40	0.0	2.7	7.2	90	23	62	719
9/12/2018	8:45	45	64	56	48	38	0.0	2.7	5.8	113	23	62	719
9/12/2018	9:00	47	69	58	50	39	0.0	2.2	5.8	90	24	58	719
9/12/2018	9:15	47	72	58	49	37	0.0	2.2	5.4	90	24	58	719
9/12/2018	9:30	46	67	55	48	38	0.0	2.7	6.3	90	25	55	719
9/12/2018	9:45	45	64	55	49	36	0.0	3.1	6.7	45	25	55	719
9/12/2018	10:00	45	62	55	48	37	0.0	2.2	5.4	90	25	54	719
9/12/2018	10:15	46	64	55	49	37	0.0	2.7	6.3	90	25	54	718
9/12/2018	10:30	45	69	55	48	38	0.0	2.7	5.4	68	26	53	718
9/12/2018	10:45	44	59	52	47	38	0.0	2.2	6.3	90	26	51	718
9/12/2018	11:00	48	64	56	51	39	0.0	2.2	5.4	90	26	51	718
9/12/2018	11:15	45	63	53	49	39	0.0	2.7	5.8	68	27	51	718
9/12/2018	11:30	46	68	56	48	37	0.0	2.2	5.8	68	26	51	718
9/12/2018	11:45	48	69	61	49	38	0.0	2.2	6.3	68	27	51	718
9/12/2018	12:00	43	60	52	46	38	0.0	2.2	5.8	90	26	52	718
9/12/2018	12:15	47	67	58	49	38	0.0	1.8	4.9	68	27	50	718
9/12/2018	12:30	44	61	54	48	36	0.0	2.7	6.7	45	27	51	718
9/12/2018	12:45	45	61	55	48	36	0.0	2.2	5.4	68	28	50	718
9/12/2018	13:00	43	61	51	46	36	0.0	2.2	4.9	45	27	48	717
9/12/2018	13:15	43	62	52	45	34	0.0	1.8	4.9	68	28	47	717
9/12/2018	13:30	44	62	54	48	35	0.0	1.8	5.8	68	28	45	717
9/12/2018	13:45	44	60	53	47	36	0.0	1.8	5.4	90	28	46	717
9/12/2018	14:00	42	56	50	45	35	0.0	1.8	5.8	90	27	47	717
9/12/2018	14:15	46	66	57	49	35	0.0	1.8	4.9	90	28	46	717
9/12/2018	14:30	47	69	59	49	36	0.0	1.8	4.9	90	28	43	717
9/12/2018	14:45	46	67	56	49	39	0.0	1.8	4.0	90	29	43	717
9/12/2018	15:00	46	66	55	50	35	0.0	2.2	7.2	68	28	44	717
9/12/2018	15:15	46	67	55	48	37	0.0	1.3	4.9	90	29	41	717
9/12/2018	15:30	45	64	55	48	37	0.0	1.8	4.9	113	29	42	716
9/12/2018	15:45	44	60	54	47	37	0.0	2.2	4.9	68	28	42	716
9/12/2018	16:00	48	69	57	51	40	0.0	2.2	6.3	68	28	42	716
9/12/2018	16:15	46	63	56	48	37	0.0	2.2	5.8	68	28	44	716
9/12/2018	16:30	46	66	56	49	37	0.0	2.2	5.4	90	28	43	716
9/12/2018	16:45	49	71	61	50	38	0.0	2.7	5.8	68	27	45	716
9/12/2018	17:00	45	60	54	48	38	0.0	2.2	5.4	90	27	45	716

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
9/12/2018	17:15	48	73	58	50	38	0.0	2.2	5.8	68	26	47	716
9/12/2018	17:30	49	73	63	48	36	0.0	2.2	5.4	68	26	48	716
9/12/2018	17:45	44	64	54	47	37	0.0	2.2	5.4	68	26	51	716
9/12/2018	18:00	46	63	55	49	39	0.0	2.7	5.4	45	25	54	716
9/12/2018	18:15	48	70	58	51	41	0.0	2.2	5.8	68	24	56	717
9/12/2018	18:30	49	70	59	51	41	0.0	2.2	5.4	68	23	59	717
9/12/2018	18:45	47	71	56	49	42	0.0	2.7	6.7	68	23	62	717
9/12/2018	19:00	45	62	53	47	41	0.0	2.2	4.9	68	22	64	717
9/12/2018	19:15	43	60	53	46	38	0.0	2.2	6.3	68	22	64	717
9/12/2018	19:30	42	59	50	44	37	0.0	2.2	4.5	68	22	65	717
9/12/2018	19:45	41	55	48	43	36	0.0	1.8	4.9	68	21	66	717
9/12/2018	20:00	39	53	46	42	32	0.0	1.8	4.5	68	21	68	717
9/12/2018	20:15	35	48	41	38	30	0.0	1.8	5.8	68	21	70	717
9/12/2018	20:30	36	52	42	39	31	0.0	2.2	5.4	68	21	70	717
9/12/2018	20:45	38	54	45	40	33	0.0	1.8	5.4	68	20	71	717
9/12/2018	21:00	37	50	46	40	33	0.0	2.2	4.9	68	20	72	717
9/12/2018	21:15	35	50	43	37	30	0.0	1.8	4.5	68	20	73	718
9/12/2018	21:30	32	51	40	36	26	0.0	1.8	4.9	68	20	75	718
9/12/2018	21:45	32	60	38	36	26	0.0	1.8	4.9	68	19	75	718
9/12/2018	22:00	35	61	45	36	28	0.0	1.3	4.0	90	19	76	718
9/12/2018	22:15	35	49	43	38	29	0.0	1.3	3.6	90	19	77	718
9/12/2018	22:30	36	51	43	39	29	0.0	1.8	4.0	90	19	78	718
9/12/2018	22:45	33	48	40	36	28	0.0	1.3	4.0	90	18	80	718
9/12/2018	23:00	33	44	38	36	29	0.0	1.8	4.9	68	18	80	718
9/12/2018	23:15	35	50	43	38	30	0.0	1.8	4.9	68	18	81	718
9/12/2018	23:30	33	44	39	36	30	0.0	1.3	2.7	90	18	83	718
9/12/2018	23:45	36	55	45	39	28	0.0	1.3	4.0	90	18	84	718
10/12/2018	0:00	33	50	43	36	27	0.0	1.3	3.1	90	17	85	718
10/12/2018	0:15	31	50	42	35	26	0.0	0.4	2.2	90	17	86	718
10/12/2018	0:30	29	47	39	32	25	0.0	0.4	2.7	90	17	86	717
10/12/2018	0:45	32	54	41	35	27	0.0	0.4	2.2	113	17	86	717
10/12/2018	1:00	37	56	47	41	30	0.0	0.0	1.3	90	17	86	717
10/12/2018	1:15	36	53	47	39	27	0.0	0.4	2.7	90	17	87	717
10/12/2018	1:30	34	50	42	37	29	0.0	0.4	2.2	90	17	88	717
10/12/2018	1:45	31	50	40	34	26	0.0	0.4	1.8	90	17	88	717
10/12/2018	2:00	31	56	41	32	25	0.0	0.4	2.2	90	17	89	717
10/12/2018	2:15	31	60	39	33	26	0.0	0.0	1.8	90	17	89	717
10/12/2018	2:30	38	59	52	36	27	0.0	0.0	1.3	113	17	90	716
10/12/2018	2:45	33	56	42	35	28	0.0	0.0	1.8	90	16	89	717
10/12/2018	3:00	34	56	42	37	28	0.0	0.0	1.3	113	16	90	716
10/12/2018	3:15	34	54	41	37	27	0.0	0.0	1.3	113	16	91	716
10/12/2018	3:30	32	54	42	34	26	0.0	0.0	0.9	113	17	90	716
10/12/2018	3:45	29	45	36	31	27	0.0	0.0	0.9	113	17	90	716
10/12/2018	4:00	32	53	42	33	27	0.0	0.0	0.9	113	17	90	716
10/12/2018	4:15	39	63	51	39	29	0.0	0.0	1.3	113	17	90	716
10/12/2018	4:30	43	68	55	45	29	0.0	0.0	0.4	113	17	89	717
10/12/2018	4:45	41	62	51	43	30	0.0	0.0	0.9	113	17	88	717
10/12/2018	5:00	43	66	53	46	33	0.0	0.0	0.4	113	17	88	717
10/12/2018	5:15	49	74	61	50	34	0.0	0.0	0.4	113	17	88	717
10/12/2018	5:30	46	66	56	50	35	0.0	0.0	0.0	0	18	88	717
10/12/2018	5:45	46	77	55	48	34	0.0	0.0	1.3	113	18	85	717
10/12/2018	6:00	44	68	53	47	33	0.0	0.4	2.2	113	19	84	717
10/12/2018	6:15	45	72	54	47	32	0.0	0.4	2.2	113	20	81	717
10/12/2018	6:30	45	61	57	48	34	0.0	0.9	2.7	90	20	79	717
10/12/2018	6:45	46	66	56	49	34	0.0	0.9	4.0	113	20	79	717
10/12/2018	7:00	43	63	54	46	35	0.0	1.3	4.5	90	20	77	717
10/12/2018	7:15	48	72	59	50	37	0.0	1.3	3.6	90	21	74	718
10/12/2018	7:30	46	64	57	49	36	0.0	1.8	3.6	68	22	72	718
10/12/2018	7:45	44	59	52	48	36	0.0	1.3	4.0	90	21	71	718
10/12/2018	8:00	43	60	54	46	33	0.0	1.3	4.9	90	23	65	718
10/12/2018	8:15	45	62	57	47	35	0.0	1.8	4.9	68	23	67	718
10/12/2018	8:30	44	60	53	48	36	0.0	1.8	4.0	90	23	67	718
10/12/2018	8:45	44	62	53	46	36	0.0	1.3	4.0	90	24	61	718
10/12/2018	9:00	45	70	57	44	32	0.0	1.8	4.5	90	24	60	718
10/12/2018	9:15	57	73	68	63	33	0.0	1.8	4.5	90	24	60	717
10/12/2018	9:30	60	73	69	64	41	0.0	1.3	4.5	90	25	59	717
10/12/2018	9:45	57	69	66	61	39	0.0	1.3	4.5	90	25	57	717
10/12/2018	10:00	45	66	56	47	35	0.0	1.3	4.0	90	25	57	717
10/12/2018	10:15	52	71	62	57	36	0.0	1.3	4.0	90	27	51	717
10/12/2018	10:30	52	76	60	54	39	0.0	1.8	4.9	113	26	52	717

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
10/12/2018	10:45	55	63	60	58	41	0.0	0.9	4.0	90	26	51	717
10/12/2018	11:00	49	64	60	53	36	0.0	0.9	4.0	90	27	49	717
10/12/2018	11:15	45	64	54	49	36	0.0	1.3	4.0	113	28	47	717
10/12/2018	11:30	45	61	55	49	35	0.0	1.3	4.0	113	28	47	717
10/12/2018	11:45	44	60	54	48	34	0.0	1.3	4.9	113	29	44	717
10/12/2018	12:00	43	63	54	46	33	0.0	1.3	3.6	113	29	44	717
10/12/2018	12:15	41	58	52	45	32	0.0	1.3	4.5	113	29	43	717
10/12/2018	12:30	43	61	53	47	32	0.0	1.3	4.0	90	29	44	717
10/12/2018	12:45	44	65	58	46	33	0.0	1.3	4.5	113	30	39	717
10/12/2018	13:00	43	59	53	46	33	0.0	1.3	4.5	113	30	41	716
10/12/2018	13:15	44	65	55	47	33	0.0	1.3	4.0	113	30	41	716
10/12/2018	13:30	43	63	56	45	32	0.0	0.9	3.6	113	30	39	716
10/12/2018	13:45	41	64	52	44	31	0.0	1.3	4.0	90	30	40	716
10/12/2018	14:00	37	55	46	40	31	0.0	0.9	3.1	90	31	39	716
10/12/2018	14:15	40	58	50	44	31	0.0	1.3	5.4	113	30	40	716
10/12/2018	14:30	46	70	55	48	37	0.0	1.3	3.6	90	30	41	715
10/12/2018	14:45	45	64	56	48	36	0.0	1.8	4.9	68	30	39	715
10/12/2018	15:00	46	68	59	48	34	0.0	1.3	5.4	90	31	39	715
10/12/2018	15:15	44	67	54	46	35	0.0	1.8	4.9	68	30	40	715
10/12/2018	15:30	44	66	55	46	35	0.0	1.3	3.6	90	31	39	715
10/12/2018	15:45	42	64	53	44	33	0.0	1.8	4.9	90	30	41	715
10/12/2018	16:00	45	69	55	47	36	0.0	2.2	5.4	68	30	41	715
10/12/2018	16:15	42	60	51	46	34	0.0	1.8	4.0	90	29	41	715
10/12/2018	16:30	42	62	53	45	34	0.0	2.2	4.5	68	29	42	715
10/12/2018	16:45	42	61	52	44	34	0.0	1.8	5.8	90	29	43	715
10/12/2018	17:00	45	65	57	47	34	0.0	1.8	5.4	68	29	43	715
10/12/2018	17:15	42	63	52	44	35	0.0	2.2	5.8	68	28	43	715
10/12/2018	17:30	43	61	53	47	35	0.0	2.2	4.5	68	28	43	715
10/12/2018	17:45	49	69	61	50	35	0.0	1.8	4.5	68	28	44	715
10/12/2018	18:00	45	73	57	46	36	0.0	1.8	4.5	68	27	45	715
10/12/2018	18:15	44	71	55	44	32	0.0	1.8	3.6	68	27	45	715
10/12/2018	18:30	45	70	56	48	33	0.0	1.3	3.1	90	26	47	715
10/12/2018	18:45	44	71	55	45	34	0.0	0.9	2.7	90	26	49	715
10/12/2018	19:00	45	71	56	48	34	0.0	1.3	3.1	90	25	50	716
10/12/2018	19:15	46	64	56	50	34	0.0	0.9	4.0	90	25	53	716
10/12/2018	19:30	44	72	55	47	34	0.0	1.8	3.6	90	25	54	716
10/12/2018	19:45	37	56	47	40	31	0.0	1.8	4.9	68	24	57	716
10/12/2018	20:00	33	47	40	35	30	0.0	1.8	4.5	68	24	59	716
10/12/2018	20:15	35	48	42	38	32	0.0	2.2	5.4	68	23	61	716
10/12/2018	20:30	34	49	42	37	30	0.0	2.2	6.3	68	23	64	716
10/12/2018	20:45	35	49	42	37	30	0.0	2.2	4.9	68	23	66	716
10/12/2018	21:00	38	57	47	40	33	0.0	2.2	4.9	68	22	68	716
10/12/2018	21:15	40	59	49	43	32	0.0	2.2	4.9	68	22	69	716
10/12/2018	21:30	44	61	53	47	37	0.0	2.2	4.9	68	21	70	716
10/12/2018	21:45	45	62	55	48	36	0.0	2.2	5.8	68	21	71	717
10/12/2018	22:00	42	63	50	45	35	0.0	1.8	4.5	68	21	72	717
10/12/2018	22:15	43	63	52	46	36	0.0	1.8	4.5	68	20	73	717
10/12/2018	22:30	41	64	51	43	35	0.0	1.3	4.0	90	20	75	717
10/12/2018	22:45	43	68	53	43	35	0.0	1.3	4.0	90	20	76	717
10/12/2018	23:00	42	61	51	44	37	0.0	1.8	4.0	90	20	77	717
10/12/2018	23:15	37	61	44	39	33	0.0	0.9	3.6	90	19	78	717
10/12/2018	23:30	37	56	46	39	32	0.0	0.0	1.8	90	19	80	717
10/12/2018	23:45	34	58	43	35	30	0.0	0.4	2.2	90	19	80	717
11/12/2018	0:00	36	57	45	38	30	0.0	0.4	2.2	90	18	81	717
11/12/2018	0:15	34	57	43	35	30	0.0	0.4	2.2	90	18	82	717
11/12/2018	0:30	35	59	43	36	29	0.0	0.9	2.7	90	18	83	716
11/12/2018	0:45	36	52	47	39	29	0.0	0.9	3.1	90	18	85	716
11/12/2018	1:00	42	62	54	42	30	0.0	0.9	2.7	90	18	86	716
11/12/2018	1:15	35	57	43	36	31	0.0	0.9	2.7	90	17	86	716
11/12/2018	1:30	32	46	36	33	30	0.0	0.4	2.2	90	17	87	716
11/12/2018	1:45	34	54	42	37	29	0.0	0.9	2.2	90	17	88	716
11/12/2018	2:00	31	51	35	32	29	0.0	0.9	1.8	90	17	88	716
11/12/2018	2:15	33	50	42	35	29	0.0	0.9	2.2	90	17	89	716
11/12/2018	2:30	34	58	44	35	29	0.0	0.4	3.1	90	17	89	716
11/12/2018	2:45	34	48	42	37	29	0.0	0.4	1.8	90	17	89	716
11/12/2018	3:00	35	47	42	38	29	0.0	0.4	1.8	90	17	90	716
11/12/2018	3:15	32	52	38	34	28	0.0	0.0	1.8	90	17	90	716
11/12/2018	3:30	32	44	40	35	28	0.0	0.0	0.9	113	16	91	716
11/12/2018	3:45	31	46	40	32	27	0.0	0.0	0.4	113	16	91	716
11/12/2018	4:00	32	55	42	34	27	0.0	0.0	0.9	113	16	92	716

Logged Noise and Weather Data

Date	Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018	4:15	40	62	52	40	29	0.0	0.0	1.3	113	16	92	716
11/12/2018	4:30	42	60	52	47	31	0.0	0.0	0.4	113	15	92	716
11/12/2018	4:45	50	77	60	51	32	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:00	49	78	59	51	33	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:15	46	69	57	47	32	0.0	0.0	0.4	113	15	93	716
11/12/2018	5:30	46	67	58	46	32	0.0	0.0	0.4	113	15	93	717
11/12/2018	5:45	46	63	58	48	31	0.0	0.0	0.9	90	17	89	717
11/12/2018	6:00	44	64	57	46	34	0.0	0.4	1.8	90	19	83	717
11/12/2018	6:15	45	66	56	48	33	0.0	0.9	2.2	90	20	80	717
11/12/2018	6:30	44	66	56	46	32	0.0	0.9	2.7	90	20	77	717
11/12/2018	6:45	47	69	56	50	34	0.0	1.3	3.1	90	21	74	717
11/12/2018	7:00	45	63	56	48	35	0.0	1.3	3.1	90	22	72	717
11/12/2018	7:15	47	69	59	49	35	0.0	1.3	3.6	90	22	69	717
11/12/2018	7:30	46	63	57	49	36	0.0	1.3	4.0	90	22	68	717
11/12/2018	7:45	44	66	54	47	34	0.0	1.3	3.1	90	23	64	717
11/12/2018	8:00	47	72	57	46	35	0.0	0.9	3.6	90	23	64	717
11/12/2018	8:15	44	62	53	47	36	0.0	0.9	3.1	90	24	61	718
11/12/2018	8:30	43	61	52	47	36	0.0	0.9	3.1	90	25	59	718
11/12/2018	8:45	45	66	53	48	36	0.0	0.4	2.7	90	26	57	717
11/12/2018	9:00	44	62	54	48	35	0.0	1.3	4.0	113	25	55	718
11/12/2018	9:15	54	86	62	50	36	0.0	1.3	3.6	90	25	56	717
11/12/2018	9:30	42	67	50	44	35	0.0	1.3	4.0	90	26	55	717
11/12/2018	9:45	43	62	54	45	34	0.0	1.3	5.8	90	27	51	717
11/12/2018	10:00	43	60	53	45	34	0.0	1.3	5.8	113	27	50	718
11/12/2018	10:15	45	65	58	46	33	0.0	1.3	4.0	90	27	51	717
11/12/2018	10:30	46	75	56	49	33	0.0	1.3	4.5	90	28	47	717
11/12/2018	10:45	46	67	57	48	35	0.0	1.3	4.0	68	28	47	717
11/12/2018	11:00	44	63	54	47	32	0.0	1.8	4.5	90	28	47	717
11/12/2018	11:15	40	59	51	44	30	0.0	1.3	5.4	90	29	45	717
11/12/2018	11:30	43	67	52	46	33	0.0	1.3	3.6	90	29	42	717
11/12/2018	11:45	44	60	52	48	35	0.0	1.3	4.0	90	29	42	717
11/12/2018	12:00	43	63	54	46	34	0.0	1.8	4.9	90	29	44	717
11/12/2018	12:15	43	64	53	46	34	0.0	1.3	4.5	90	29	43	717
11/12/2018	12:30	46	63	56	50	35	0.0	1.3	4.9	90	30	42	717
11/12/2018	12:45	47	66	59	49	37	0.0	1.8	4.5	90	30	40	716
11/12/2018	13:00	44	63	55	46	33	0.0	1.3	4.9	90	30	40	716
11/12/2018	13:15	47	69	59	48	35	0.0	1.8	5.4	90	30	41	716
11/12/2018	13:30	48	67	60	51	36	0.0	1.3	4.9	113	30	40	716
11/12/2018	13:45	45	66	55	48	36	0.0	2.2	5.8	68	30	40	716
11/12/2018	14:00	45	68	55	46	35	0.0	1.8	4.9	90	31	39	716
11/12/2018	14:15	45	63	56	48	35	0.0	1.8	5.4	90	31	40	716
11/12/2018	14:30	42	58	51	45	35	0.0	2.2	6.3	90	30	40	715
11/12/2018	14:45	47	67	57	51	35	0.0	1.8	4.9	90	30	41	715
11/12/2018	15:00	47	64	57	51	38	0.0	1.8	5.4	113	30	39	715
11/12/2018	15:15	47	66	57	50	39	0.0	1.8	4.5	90	30	40	715
11/12/2018	15:30	45	69	55	47	36	0.0	2.2	6.7	90	29	40	715
11/12/2018	15:45	47	64	57	50	37	0.0	2.2	5.4	68	29	40	715
11/12/2018	16:00	43	61	54	45	35	0.0	2.2	4.9	68	30	40	715
11/12/2018	16:15	46	67	56	50	38	0.0	1.8	5.4	90	30	40	714
11/12/2018	16:30	44	67	53	46	36	0.0	2.2	5.8	90	29	40	714
11/12/2018	16:45	42	62	53	45	35	0.0	2.2	4.9	68	29	41	715
11/12/2018	17:00	45	64	55	47	37	0.0	2.2	5.8	68	29	42	715
11/12/2018	17:15	43	62	53	46	37	0.0	2.2	4.9	68	29	42	715
11/12/2018	17:30	45	64	54	48	37	0.0	2.2	6.3	68	28	44	715
11/12/2018	17:45	48	72	59	49	39	0.0	2.2	5.8	45	27	46	715
11/12/2018	18:00	46	70	56	49	38	0.0	2.2	6.3	45	27	48	715
11/12/2018	18:15	47	69	57	50	38	0.0	2.2	6.3	68	26	50	715
11/12/2018	18:30	48	72	59	49	38	0.0	2.7	5.4	45	26	53	715
11/12/2018	18:45	48	75	58	47	37	0.0	2.7	5.8	68	25	56	715
11/12/2018	19:00	46	64	58	47	38	0.0	2.7	7.2	45	25	57	715
11/12/2018	19:15	43	60	54	45	35	0.0	2.7	5.8	68	24	59	715
11/12/2018	19:30	44	66	53	46	37	0.0	2.7	6.3	45	24	60	716
11/12/2018	19:45	43	63	52	46	36	0.0	2.7	6.7	68	23	62	716
11/12/2018	20:00	46	69	56	49	38	0.0	2.7	6.3	45	23	64	716
11/12/2018	20:15	42	63	51	44	34	0.0	2.7	6.3	68	23	65	717
11/12/2018	20:30	40	61	49	42	32	0.0	2.7	7.2	68	22	66	717
11/12/2018	20:45	40	59	50	44	33	0.0	2.7	5.8	45	22	68	717
11/12/2018	21:00	44	70	54	46	34	0.0	2.2	4.5	45	21	70	716
11/12/2018	21:15	40	56	47	45	33	0.0	2.7	6.7	45	21	71	717
11/12/2018	21:30	42	66	52	43	33	0.0	2.7	6.3	45	21	73	717

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
11/12/2018 21:45	41	64	53	43	33	0.0	2.2	5.4	68	21	75	717
11/12/2018 22:00	41	61	50	44	35	0.0	1.8	4.5	68	20	76	717
11/12/2018 22:15	42	58	51	45	35	0.0	1.8	5.8	68	20	77	717
11/12/2018 22:30	40	61	49	42	33	0.0	2.2	5.8	68	20	78	717
11/12/2018 22:45	38	55	46	40	33	0.0	1.8	4.5	68	20	78	717
11/12/2018 23:00	37	57	44	40	33	0.0	1.3	3.6	68	20	79	717
11/12/2018 23:15	38	56	45	41	33	0.0	1.8	4.0	68	19	80	717
11/12/2018 23:30	35	54	42	37	30	0.0	1.3	4.0	68	19	81	717
11/12/2018 23:45	34	55	43	36	29	0.0	1.8	4.5	68	19	81	716
12/12/2018 0:00	35	59	45	36	29	0.0	1.8	4.0	68	19	81	716
12/12/2018 0:15	31	42	36	34	28	0.0	1.8	4.5	68	19	81	716
12/12/2018 0:30	31	48	39	34	26	0.0	0.9	3.1	90	19	81	716
12/12/2018 0:45	31	60	39	31	26	0.0	0.9	3.1	90	19	82	716
12/12/2018 1:00	27	47	32	29	26	0.0	0.9	3.6	90	19	83	716
12/12/2018 1:15	29	51	38	31	25	0.0	0.9	2.2	90	18	84	716
12/12/2018 1:30	29	44	36	32	25	0.0	1.3	4.0	90	18	83	716
12/12/2018 1:45	30	57	39	30	25	0.0	1.8	4.0	90	18	83	715
12/12/2018 2:00	30	52	38	33	25	0.0	1.8	4.5	90	18	83	715
12/12/2018 2:15	34	51	44	37	28	0.0	1.8	4.0	68	18	84	715
12/12/2018 2:30	29	47	36	31	26	0.0	1.8	4.9	68	18	84	715
12/12/2018 2:45	29	43	37	31	26	0.0	1.8	4.0	68	18	85	715
12/12/2018 3:00	27	39	32	29	25	0.0	1.3	4.0	90	18	86	715
12/12/2018 3:15	30	44	40	33	26	0.0	0.4	2.2	113	18	87	715
12/12/2018 3:30	28	43	35	30	26	0.0	0.0	1.3	113	18	87	715
12/12/2018 3:45	28	56	34	29	26	0.0	0.4	1.8	90	17	87	715
12/12/2018 4:00	30	53	36	31	26	0.0	0.9	3.1	90	18	85	715
12/12/2018 4:15	38	60	51	39	29	0.0	0.9	2.7	90	18	85	715
12/12/2018 4:30	45	66	56	48	31	0.0	0.9	2.7	90	18	85	715
12/12/2018 4:45	42	57	52	46	34	0.0	0.0	1.3	90	17	86	715
12/12/2018 5:00	56	87	65	53	33	0.0	0.4	1.8	90	17	86	715
12/12/2018 5:15	46	64	58	48	34	0.0	0.4	2.7	90	17	86	715
12/12/2018 5:30	42	63	53	45	34	0.0	0.4	1.8	113	18	86	715
12/12/2018 5:45	42	62	53	44	34	0.0	0.9	4.5	90	19	83	715
12/12/2018 6:00	49	75	59	50	35	0.0	1.8	3.6	68	19	80	715
12/12/2018 6:15	42	60	50	45	35	0.0	1.8	4.5	68	20	79	715
12/12/2018 6:30	45	65	53	48	37	0.0	1.8	4.5	68	20	78	715
12/12/2018 6:45	46	71	56	49	36	0.0	1.3	4.5	90	20	76	716
12/12/2018 7:00	44	63	54	48	35	0.0	1.8	4.0	68	21	73	716
12/12/2018 7:15	44	63	54	47	35	0.0	1.3	4.0	90	22	70	716
12/12/2018 7:30	47	70	58	49	36	0.0	1.3	4.5	90	22	67	716
12/12/2018 7:45	45	65	56	48	36	0.0	1.3	4.0	90	23	65	716
12/12/2018 8:00	47	69	57	50	35	0.0	1.3	3.1	90	23	64	716
12/12/2018 8:15	45	66	55	48	36	0.0	1.3	3.1	90	24	60	716
12/12/2018 8:30	44	67	53	47	35	0.0	1.3	4.5	90	24	61	716
12/12/2018 8:45	43	61	51	46	36	0.0	1.8	4.0	68	25	57	716
12/12/2018 9:00	46	67	59	48	35	0.0	1.8	4.9	90	25	55	716
12/12/2018 9:15	42	61	52	45	35	0.0	1.8	5.4	90	25	54	716
12/12/2018 9:30	43	63	55	45	32	0.0	1.8	4.9	90	26	52	716
12/12/2018 9:45	40	60	51	43	31	0.0	1.8	4.9	90	26	53	716
12/12/2018 10:00	41	63	53	44	32	0.0	1.3	4.5	90	27	52	716
12/12/2018 10:15	42	66	51	45	33	0.0	1.8	4.0	90	27	48	716
12/12/2018 10:30	44	62	55	48	31	0.0	1.3	5.4	113	27	48	716
12/12/2018 10:45	42	60	51	45	33	0.0	1.3	4.5	90	28	47	716
12/12/2018 11:00	40	59	48	43	32	0.0	1.3	4.5	90	28	46	715
12/12/2018 11:15	45	64	56	47	34	0.0	1.3	3.1	90	29	43	715
12/12/2018 11:30	45	64	57	48	34	0.0	1.3	4.5	90	29	44	715
12/12/2018 11:45	42	61	53	44	32	0.0	1.8	4.0	90	30	41	715
12/12/2018 12:00	44	63	58	44	30	0.0	1.3	4.5	90	30	41	715
12/12/2018 12:15	43	63	55	46	32	0.0	0.9	4.5	90	31	40	715
12/12/2018 12:30	47	66	58	50	36	0.0	1.8	4.5	90	31	40	714
12/12/2018 12:45	47	72	59	47	34	0.0	1.3	4.0	90	31	40	714
12/12/2018 13:00	41	55	49	44	33	0.0	1.3	4.9	113	31	39	714
12/12/2018 13:15	41	60	51	45	31	0.0	1.3	4.0	90	32	38	714
12/12/2018 13:30	42	64	51	45	34	0.0	1.3	4.5	90	32	38	714
12/12/2018 13:45	43	64	54	46	35	0.0	1.3	3.6	113	32	39	714
12/12/2018 14:00	43	60	52	47	37	0.0	1.8	4.5	90	32	40	713
12/12/2018 14:15	48	69	58	51	39	0.0	1.8	4.9	90	32	38	713
12/12/2018 14:30	44	65	53	47	37	0.0	1.8	4.9	90	31	39	713
12/12/2018 14:45	43	58	52	45	36	0.0	1.8	5.4	113	31	39	713
12/12/2018 15:00	50	70	62	53	37	0.0	1.8	4.5	90	32	39	713

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
12/12/2018 15:15	46	64	58	49	36	0.0	1.3	3.6	90	32	38	713
12/12/2018 15:30	44	66	53	47	37	0.0	1.3	5.4	90	32	39	713
12/12/2018 15:45	45	71	55	46	36	0.0	1.3	3.6	113	31	39	713
12/12/2018 16:00	47	69	61	48	35	0.0	1.3	4.0	90	31	40	713
12/12/2018 16:15	45	61	55	47	36	0.0	1.3	4.0	90	30	41	712
Difference	43	66	52	45	36	0.0	1.8	4.5	90	30	42	712
12/12/2018 16:45	42	65	52	45	35	0.0	1.8	3.6	90	30	43	712
12/12/2018 17:00	42	58	51	45	37	0.0	1.3	4.9	90	29	43	712
12/12/2018 17:15	47	65	59	50	38	0.0	1.8	4.9	68	29	44	712
12/12/2018 17:30	45	62	55	48	39	0.0	2.7	5.4	68	29	45	712
12/12/2018 17:45	46	66	57	49	38	0.0	2.2	5.8	68	28	46	713
12/12/2018 18:00	48	72	59	50	39	0.0	2.7	5.4	68	28	47	713
12/12/2018 18:15	49	75	60	51	39	0.0	2.7	6.3	68	27	48	713
12/12/2018 18:30	49	69	59	51	42	0.0	2.7	5.8	45	26	51	713
12/12/2018 18:45	50	71	58	53	42	0.0	3.1	7.2	68	26	53	713
12/12/2018 19:00	50	69	59	53	43	0.0	3.1	7.2	45	25	55	713
12/12/2018 19:15	51	70	61	54	44	0.0	3.1	6.7	45	25	57	713
12/12/2018 19:30	53	71	62	56	44	0.0	3.1	7.2	45	24	59	713
12/12/2018 19:45	53	76	62	55	45	0.0	3.1	6.7	45	24	62	713
12/12/2018 20:00	51	72	61	54	42	0.0	3.6	7.2	45	23	63	713
12/12/2018 20:15	48	77	60	48	36	0.0	3.1	6.3	45	23	65	713
12/12/2018 20:30	46	67	57	48	36	0.0	2.2	6.3	45	23	66	713
12/12/2018 20:45	46	60	54	49	39	0.0	2.7	5.8	68	22	67	713
12/12/2018 21:00	45	68	55	47	38	0.0	2.7	5.8	68	22	69	714
12/12/2018 21:15	47	77	57	49	37	0.0	2.7	6.7	45	22	70	713
12/12/2018 21:30	43	61	51	46	36	0.0	2.7	6.3	45	21	72	714
12/12/2018 21:45	43	63	51	46	36	0.0	2.2	5.8	68	21	73	714
12/12/2018 22:00	41	56	48	43	36	0.0	2.2	5.4	68	21	75	714
12/12/2018 22:15	43	62	54	46	35	0.0	2.2	5.8	68	21	76	714
12/12/2018 22:30	43	64	54	45	36	0.0	2.2	6.3	68	21	77	714
12/12/2018 22:45	37	57	45	39	32	0.0	2.2	5.8	68	21	77	714
12/12/2018 23:00	40	65	50	42	34	0.0	1.8	4.9	90	20	77	714
12/12/2018 23:15	34	60	40	36	29	0.0	1.8	4.9	90	20	78	714
12/12/2018 23:30	34	54	47	35	27	0.0	1.3	2.7	90	20	79	714
12/12/2018 23:45	31	52	39	34	27	0.0	1.8	4.5	90	20	82	713
13/12/2018 0:00	33	60	40	34	28	0.0	1.3	3.6	68	20	82	713
13/12/2018 0:15	45	63	60	42	29	0.0	1.3	4.0	68	20	81	713
13/12/2018 0:30	34	47	40	37	30	0.0	0.9	2.7	90	20	81	713
13/12/2018 0:45	35	56	44	38	28	0.0	0.9	3.1	90	19	82	713
13/12/2018 1:00	31	43	39	35	27	0.0	0.9	2.7	90	19	82	713
13/12/2018 1:15	36	51	43	39	29	0.0	1.3	6.3	68	19	83	713
13/12/2018 1:30	33	50	40	36	29	0.0	1.3	4.5	90	19	84	712
13/12/2018 1:45	35	48	43	39	28	0.0	0.9	2.2	90	19	84	713
13/12/2018 2:00	37	53	44	40	32	0.0	0.4	2.7	90	19	84	712
13/12/2018 2:15	40	58	48	42	35	0.0	0.4	1.8	158	19	84	712
13/12/2018 2:30	42	60	49	45	37	0.0	0.9	4.5	90	19	84	711
13/12/2018 2:45	44	57	51	47	39	0.0	2.2	6.3	45	19	84	711
13/12/2018 3:00	42	55	48	44	38	0.0	1.8	5.4	68	19	85	712
13/12/2018 3:15	40	58	47	43	35	0.0	0.0	0.9	158	19	85	712
13/12/2018 3:30	38	58	47	41	34	0.0	0.0	1.3	90	19	86	712
13/12/2018 3:45	37	55	44	40	29	0.0	0.0	0.9	90	19	86	712
13/12/2018 4:00	32	51	40	34	28	0.0	0.0	0.9	90	18	86	712
13/12/2018 4:15	39	61	51	40	31	0.0	0.0	0.4	113	18	86	712
13/12/2018 4:30	45	67	56	48	32	0.0	0.0	0.9	90	18	86	712
13/12/2018 4:45	48	67	60	51	34	0.0	0.0	0.9	90	18	86	712
13/12/2018 5:00	46	62	57	50	33	0.0	0.0	0.4	113	18	87	713
13/12/2018 5:15	48	70	59	52	33	0.0	0.0	0.0	0	18	88	713
13/12/2018 5:30	42	62	53	45	29	0.0	0.0	0.0	0	18	88	713
13/12/2018 5:45	44	73	54	46	32	0.0	0.0	0.4	113	18	87	713
13/12/2018 6:00	46	72	57	49	31	0.0	0.0	0.9	113	19	85	713
13/12/2018 6:15	42	61	52	45	33	0.0	0.9	3.1	0	21	77	713
13/12/2018 6:30	47	65	61	49	36	0.0	1.3	3.6	0	22	75	713
13/12/2018 6:45	48	76	58	46	35	0.0	1.3	2.2	90	22	73	713
13/12/2018 7:00	42	72	50	42	35	0.0	0.9	2.2	158	22	74	713
13/12/2018 7:15	41	57	50	44	35	0.0	0.9	2.2	113	22	73	713
13/12/2018 7:30	44	61	53	48	35	0.0	0.4	2.7	90	22	72	713
13/12/2018 7:45	43	61	53	46	35	0.0	0.4	1.3	90	22	71	713
13/12/2018 8:00	49	76	61	48	35	0.0	0.4	1.8	158	22	70	713
13/12/2018 8:15	46	65	59	48	34	0.0	0.4	1.8	90	23	69	713
13/12/2018 8:30	45	67	55	48	37	0.0	0.9	2.7	158	24	66	713

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
13/12/2018 8:45	49	71	61	51	39	0.0	1.3	3.1	158	25	63	713
13/12/2018 9:00	46	64	56	49	38	0.0	1.3	3.6	90	25	62	713
13/12/2018 9:15	44	69	53	46	38	0.0	1.3	3.6	90	25	61	712
13/12/2018 9:30	45	63	54	48	40	0.0	1.3	3.1	90	25	59	712
13/12/2018 9:45	44	62	53	47	37	0.0	1.3	3.1	90	26	58	712
13/12/2018 10:00	44	62	51	47	37	0.0	1.3	4.5	90	27	55	712
13/12/2018 10:15	44	66	52	47	38	0.0	1.8	3.6	0	27	54	712
13/12/2018 10:30	43	58	51	46	38	0.0	1.3	4.9	90	28	64	712
13/12/2018 10:45	45	68	54	48	39	0.6	0.0	0.0	0	32	53	712
13/12/2018 11:00	45	65	54	47	38	0.0	0.0	0.0	0	33	45	712
13/12/2018 11:15	46	68	56	48	39	1.0	0.0	0.0	0	33	47	712
13/12/2018 11:30	46	66	56	48	38	0.0	0.0	0.0	0	33	48	711
13/12/2018 11:45	46	63	55	49	38	0.0	0.0	0.0	0	33	49	711
13/12/2018 12:00	46	63	57	49	38	0.6	0.0	0.0	0	32	50	709
13/12/2018 12:15	44	65	54	46	37	0.2	0.0	0.0	0	32	48	701
13/12/2018 12:30	45	65	54	47	38	0.2	0.0	0.0	0	32	47	704
13/12/2018 12:45	46	71	54	46	38	0.0	0.0	0.0	0	31	48	705
13/12/2018 13:00	47	69	60	49	35	1.2	0.0	0.0	0	31	48	704
13/12/2018 13:15	43	61	53	45	36	0.2	0.0	0.0	0	31	46	745
13/12/2018 13:30	45	62	54	48	38	0.8	0.0	0.0	0	31	45	745
13/12/2018 13:45	45	64	56	48	37	0.6	0.0	0.0	0	30	45	730
13/12/2018 14:00	44	61	53	48	36	0.0	0.0	0.0	0	30	47	729
13/12/2018 14:15	45	64	56	47	37	0.0	0.0	0.0	0	30	48	729
13/12/2018 14:30	44	63	53	46	38	0.0	0.0	0.0	0	30	49	729
13/12/2018 14:45	45	63	56	48	39	1.4	0.0	0.0	0	30	48	744
13/12/2018 15:00	44	65	52	46	38	0.4	0.0	0.0	0	31	45	741
13/12/2018 15:15	45	65	54	47	38	0.2	0.0	0.0	0	30	42	738
13/12/2018 15:30	45	68	57	46	37	2.4	0.0	0.0	0	30	40	732
13/12/2018 15:45	50	81	60	49	37	1.2	0.0	0.0	0	30	40	707
13/12/2018 16:00	47	67	56	50	40	1.2	0.0	0.0	0	29	39	707
13/12/2018 16:15	45	62	55	48	39	0.0	0.0	0.0	0	29	41	707
13/12/2018 16:30	48	76	54	48	39	0.0	0.0	0.0	0	29	42	707
13/12/2018 16:45	46	72	55	48	39	0.2	0.0	0.0	0	29	43	707
13/12/2018 17:00	45	66	54	47	40	0.2	0.0	0.0	0	29	43	706
13/12/2018 17:15	44	69	53	45	38	0.6	0.0	0.0	0	29	40	699
13/12/2018 17:30	47	72	55	48	40	0.0	0.0	0.0	0	29	40	703
13/12/2018 17:45	44	72	54	45	38	0.0	0.0	0.0	0	29	40	703
13/12/2018 18:00	49	71	58	51	40	0.0	0.0	0.0	0	28	41	703
13/12/2018 18:15	52	80	63	52	39	0.0	0.0	0.0	0	28	41	704
13/12/2018 18:30	44	73	54	45	36	0.0	0.0	0.0	0	28	42	704
13/12/2018 18:45	41	67	50	42	36	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:00	41	67	47	43	37	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:15	41	58	48	43	37	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:30	43	62	54	44	35	0.0	0.0	0.0	0	28	42	704
13/12/2018 19:45	37	53	45	39	32	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:00	49	67	61	52	33	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:15	42	56	51	46	33	0.0	0.0	0.0	0	28	43	704
13/12/2018 20:30	33	46	40	36	30	0.0	0.0	0.0	0	28	43	705
13/12/2018 20:45	34	46	41	38	30	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:00	36	58	46	38	30	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:15	37	67	44	39	33	0.0	0.0	0.0	0	28	43	705
13/12/2018 21:30	43	62	51	46	35	0.0	0.0	0.0	0	28	43	704
13/12/2018 21:45	36	50	43	38	32	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:00	33	52	40	35	31	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:15	34	48	41	36	30	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:30	32	41	35	34	30	0.0	0.0	0.0	0	28	43	704
13/12/2018 22:45	34	49	42	36	29	0.0	0.0	0.0	0	29	43	704
13/12/2018 23:00	34	49	42	37	28	0.0	0.0	0.0	0	28	43	704
13/12/2018 23:15	34	51	42	38	27	0.0	0.0	0.0	0	28	43	704
13/12/2018 23:30	32	50	41	35	28	0.0	0.0	0.0	0	29	43	704
13/12/2018 23:45	32	48	40	35	28	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:00	35	48	43	37	31	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:15	35	49	41	38	31	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:30	44	73	52	46	36	0.0	0.0	0.0	0	28	43	704
14/12/2018 0:45	39	61	48	40	33	0.0	0.0	0.0	0	28	43	704
14/12/2018 1:00	36	53	43	38	32	0.0	0.0	0.0	0	28	43	702
14/12/2018 1:15	33	50	40	36	30	0.0	0.0	0.0	0	28	43	703
14/12/2018 1:30	33	55	44	34	28	0.0	0.0	0.0	0	28	43	703
14/12/2018 1:45	35	50	44	39	27	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:00	32	48	41	35	27	0.0	0.0	0.0	0	28	43	703

Logged Noise and Weather Data

Date Start Time	LAeq	LAMax	LA1	LA10	LA90	Rain (mm)	Av. Wind speed (m/s)	Max Wind speed (m/s)	Wind Dir (°) North=0°	Temp (°C)	Hum. (%)	Air Pres. (Hpa)
14/12/2018 2:15	33	48	42	36	27	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:30	30	44	38	32	27	0.0	0.0	0.0	0	28	43	703
14/12/2018 2:45	33	47	42	36	28	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:00	32	44	39	34	28	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:15	34	54	41	37	30	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:30	35	50	42	37	31	0.0	0.0	0.0	0	28	43	703
14/12/2018 3:45	35	48	42	38	32	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:00	38	61	43	40	35	0.0	0.0	0.0	0	28	43	704
14/12/2018 4:15	47	72	53	47	41	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:30	45	65	54	46	41	0.0	0.0	0.0	0	28	43	703
14/12/2018 4:45	45	66	54	47	39	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:00	43	61	52	46	38	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:15	46	71	56	47	40	0.0	0.0	0.0	0	28	43	704
14/12/2018 5:30	48	75	59	49	39	0.0	0.0	0.0	0	28	44	704
14/12/2018 5:45	47	74	59	47	38	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:00	46	68	57	48	38	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:15	49	69	61	51	39	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:30	44	60	54	47	38	0.0	0.0	0.0	0	28	44	704
14/12/2018 6:45	46	67	59	47	38	0.0	0.0	0.0	0	28	44	704
14/12/2018 7:00	45	65	56	47	39	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:15	44	65	53	45	38	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:30	45	58	51	47	41	0.0	0.0	0.0	0	27	44	704
14/12/2018 7:45	48	75	59	47	38	0.6	0.0	0.0	0	27	44	703
14/12/2018 8:00	46	62	54	49	41	0.4	0.0	0.0	0	27	42	701
14/12/2018 8:15	44	65	51	46	41	0.0	0.0	0.0	0	27	41	705
14/12/2018 8:30	49	69	57	50	44	0.2	0.0	0.0	0	27	41	710
14/12/2018 8:45	51	75	62	52	38	0.0	0.0	0.0	0	27	42	710
14/12/2018 9:00	44	63	52	46	38	0.0	0.0	0.0	0	26	43	710
14/12/2018 9:15	44	64	54	46	38	0.8	0.0	0.0	0	26	43	705
14/12/2018 9:30	44	65	57	45	37	0.4	0.0	0.0	0	26	43	707
14/12/2018 9:45	41	61	51	44	36	0.2	0.0	0.0	0	26	43	707
14/12/2018 10:00	47	73	57	47	37	0.0	0.0	0.0	0	26	44	707
14/12/2018 10:15	44	74	51	44	37	0.0	0.0	0.0	0	26	44	707
14/12/2018 10:30	48	69	59	51	40	0.0	0.0	0.0	0	31	31	707
14/12/2018 10:45	43	64	53	46	37	0.0	0.0	0.0	0	30	55	709
14/12/2018 11:00	54	79	68	48	38	0.0	0.0	0.0	0	28	60	709
14/12/2018 11:15	45	63	54	48	38	0.0	0.0	0.0	0	28	59	709
14/12/2018 11:30	48	74	56	49	41	0.0	0.0	0.0	0	28	33	710
14/12/2018 11:45	47	66	60	48	39	0.0	0.0	0.0	0	29	56	711

C.1.5 Calibration certificates

CERTIFICATE OF CALIBRATION

CERTIFICATE NO: 23871

EQUIPMENT TESTED: Accelerometer

Manufacturer: Dytran
Type No: 3192A **Serial No:** 151
Owner: AECOM Australia Pty Ltd
L 8, 540 Wickham Street
Fortitude Valley QLD 4006

Tests Performed: Frequency Response & Sensitivity at selected Frequencies:

Least Uncertainty: (at 95% c.l.) k=2

CONDITION OF TEST:

Relative Humidity: 48% ±5%
Temperature: 22°C ±2° C
Date of Calibration: 05/12/2018 **Date Issued:** 05/12/2018
Acu-Vib Test Procedure: AVP08 (Accelerometers) – ISO 16063-21

CHECKED BY: ..... **AUTHORISED SIGNATURE:** .....
Jack Kielt

Accredited for compliance with ISO/IEC 17025 - Calibration
The results of the tests, calibration and/or measurements included in this document are traceable to Australian/national standards.
The uncertainties quoted are calculated in accordance with the methods of the ISO Guide to the Uncertainty of Measurement and quoted at a coverage factor of 2 with a confidence interval of approximately 95%.

NATA
WORLD RECOGNISED ACCREDITATION

Accredited Lab. 9262
Acoustic and Vibration Measurements

ACU-VIB
ELECTRONICS
HEAD OFFICE
Unit 14, 22 Hudson Ave. Castle Hill NSW 2154
Tel: (02) 96808133 Fax: (02)96808233
Mobile: 0413 809806
Web site: www.acu-vib.com.au

Calibration Certificate

Certificate Number 2017008810
Customer:
Noise Measurment Services
18 Lade street
Gaythorne, QLD 4051, Australia

Model Number	831	***Procedure Number***	D0001.8378		
Serial Number	0001621	***Technician***	Ron Harris		
Test Results	**Pass**	***Calibration Date***	15 Aug 2017		
Initial Condition	Inoperable	***Calibration Due***	15 Aug 2019		
		Temperature	23.48	°C	± 0.25 °C
Description	Larson Davis Model 831 Class 1 Sound Level Meter Firmware Revision: 2.314	***Humidity***	51.4	%RH	± 2.0 %RH
		Static Pressure	86.04	kPa	± 0.13 kPa

Evaluation Method Tested electrically using Larson Davis PRM831 S/N 10061 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. **Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

This report may not be reproduced, except in full, unless permission for the publication of an approved abstract is obtained in writing from the organization issuing this report.

Correction data from Larson Davis Model 831 Sound Level Meter Manual, I831.01 Rev O, 2016-09-19

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 successfully completed by Physikalisch-Technische Bundesanstalt (PTB) on 2016-02-24 certificate number DE-15-M-PTB-0056.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organization responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013 / ANSI/ASA S1.4-2014/Part 2, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1; the sound level meter submitted for testing conforms to the class 1specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
Hart Scientific 2626-S Humidity/Temperature Sensor	2017-06-11	2018-06-11	006943
SRS DS360 Ultra Low Distortion Generator	2017-06-29	2018-06-29	007118

Certificate Number: 1721

CERTIFICATE OF CALIBRATION

Certificate Number: **1721** **NATA Accreditation No: 15841**

Customer: Noise Measurement Services
18 Lade Street, Enoggera, QLD, 4051
Max Thorne

Test object:	**Manufacturer:**	**Test object:**	**Serial no:**	**ID:**
Sound level meter	Larson Davis	LD831	0001639	1721
Microphone:	PCB	377B02	114308	1721
Preamplifier	PCB	PRM831	012217	1721
Calibrator	None			
Wind screen	None			

Environmental conditions:	**Pressure:**	**Temperature:**	**Relative humidity:**
Reference conditions:	101.325 kPa	23.0 °C	50 %RH
Conditions before measurement:	101.98 ±0.03 kPa	25.0 ±0.4 °C	49.3 ±2.8 %RH
Conditions after measurement:	101.82 ±0.03 kPa	23.7 ±0.4 °C	47.6 ±2.8 %RH

The measurements are performed according to the *IEC 61672 Sound level meters – Part 3: Periodic tests*, *DIN 45657 Sound Level Meters – Requirements for Special Applications* and *IEC 61260 Electroacoustics – Octave-band and fractional-octave-band filters*.

The expanded uncertainty of measurement is reported at approximately 95% confidence level with a coverage factor k, of 2.

Accredited for compliance with ISO/IEC 17025.

Date of calibration: 13/11/17
Date of issue: 13/11/17
Technician: Jaie Wilde
Authorised Signatory:

Beau Weyers

Calibration Certificate

Certificate Number 2017006479

Customer:

Noise Measurment Services
18 Lade street
Gaythorne, QLD 4051, Australia

Model Number	831	***Procedure Number***	D0001.8378		
Serial Number	0002578	***Technician***	Ron Harris		
Test Results	**Pass**	***Calibration Date***	20 Jun 2017		
Initial Condition	AS RECEIVED same as shipped	***Calibration Due***	20 Jun 2018		
		Temperature	23.79	°C	± 0.25 °C
Description	Larson Davis Model 831 Class 1 Sound Level Meter Firmware Revision: 2.313	***Humidity***	49	%RH	± 2.0 %RH
		Static Pressure	86.59	kPa	± 0.13 kPa

Evaluation Method Tested electrically using Larson Davis PRM831 S/N 019139 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

Compliance Standards Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. **Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis Model 831 Sound Level Meter Manual, I831.01 Rev O, 2016-09-19

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 successfully completed by Physikalisch-Technische Bundesanstalt (PTB) on 2016-02-24 certificate number DE-15-M-PTB-0056.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organization responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013 / ANSI/ASA S1.4-2014/Part 2, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1; the sound level meter submitted for testing conforms to the class 1specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Standards Used

Description	Cal Date	Cal Due	Cal Standard
SRS DS360 Ultra Low Distortion Generator	2017-01-19	2018-01-19	006239
Hart Scientific 2626-S Humidity/Temperature Sensor	2017-06-11	2018-06-11	006943

THE CALIBRE TECHNOLOGY

ACOUSTIC & VIBRATION CALIBRATION CENTRE

Certificate Number: 2099

CERTIFICATE OF CALIBRATION

Certificate Number: **2099** **NATA Accreditation No: 15841**

Customer: Noise Measurement Services
18 Lade Street, Enoggera, QLD, 4051

Test object:	**Manufacturer:**	**Model:**	**Serial no:**	**ID:**
Sound level meter	Larson Davis	LD831	0002846	2099
Microphone:	PCB	377B02	130401	2099
Preamplifier	PCB	PRM831	019155	2099
Calibrator				
Connecting Cable	None			

Environmental conditions:	**Pressure:**	**Temperature:**	**Relative humidity:**
Reference conditions:	101.325 kPa	23.0 °C	50 %RH
Conditions before measurement:	101.30 kPa	25.2 °C	62.7 %RH
Conditions after measurement:	101.90 kPa	24.5 °C	57.3 %RH

The measurements are performed according to the *IEC 61672 Sound level meters – Part 3: Periodic tests*, *DIN 45657 Sound Level Meters – Requirements for Special Applications* and *IEC 61260 Electroacoustics – Octave-band and fractional-octave-band filters*.

The expanded uncertainty of measurement is reported at approximately 95% confidence level with a coverage factor k, of 2.

Accredited for compliance with ISO/IEC 17025.

Date of calibration: 11/10/18
Technician: Jaie Wilde
Authorised Signatory:

Beau Weyers

NATA
WORLD RECOGNISED ACCREDITATION
No. 15841

Certificate Number: 1676

CERTIFICATE OF CALIBRATION

Certificate Number: **1676** **NATA Accreditation No: 15841**

Customer: Noise Measurement Services
18 Lade Street, Enoggera, QLD 4051
Max Thorne

Test object:	**Manufacturer:**	**Test object:**	**Serial no:**	**ID:**
Sound level meter	Larson Davis	LD831	0003300	1676
Microphone:	PCB	377B02	109160	1676
Preamplifier	PCB	PRM831	017090	1676
Calibrator	None			
Wind screen	None			

Environmental conditions:	**Pressure:**	**Temperature:**	**Relative humidity:**
Reference conditions:	101.325 kPa	23.0 °C	50 %RH
Conditions before measurement:	101.11 ±0.03 kPa	25.0 ±0.4 °C	58.5 ±2.8 %RH
Conditions after measurement:	101.26 ±0.03 kPa	26.0 ±0.4 °C	55.0 ±2.8 %RH

The measurements are performed according to the *IEC 61672 Sound level meters – Part 3: Periodic tests, DIN 45657 Sound Level Meters – Requirements for Special Applications* and *IEC 61260 Electroacoustics – Octave-band and fractional-octave-band filters.*

The expanded uncertainty of measurement is reported at approximately 95% confidence level with a coverage factor k, of 2.

Accredited for compliance with ISO/IEC 17025.

Date of calibration: 13/10/17
Date of issue: 13/10/17
Technician: Jaie Wilde
Authorised Signatory:

Beau Weyers

Calibration Certificate

Certificate Number 2017003873
Customer:
Noise Measurment Services
18 Lade street
Gaythorne, QLD 4051, Australia

Model Number	831		
Serial Number	0003301		
Test Results	**Pass**	**Procedure Number**	D0001.8378
Initial Condition	Inoperable	**Technician**	Ron Harris
		Calibration Date	13 Apr 2017
Description	Larson Davis Model 831	**Calibration Due**	13 Apr 2018
	Class 1 Sound Level Meter	**Temperature**	23.19 °C ± 0.25 °C
	Firmware Revision: 2.311	**Humidity**	50.1 %RH ± 2.0 %RH
		Static Pressure	85.72 kPa ± 0.13 kPa

Evaluation Method

Tested electrically using Larson Davis PRM831 S/N 012219 and a 12.0 pF capacitor to simulate microphone capacitance. Data reported in dB re 20 µPa assuming a microphone sensitivity of 50.0 mV/Pa.

Compliance Standards

Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8384:

IEC 60651:2001 Type 1	ANSI S1.4-2014 Class 1
IEC 60804:2000 Type 1	ANSI S1.4 (R2006) Type 1
IEC 61252:2002	ANSI S1.11 (R2009) Class 1
IEC 61260:2001 Class 1	ANSI S1.25 (R2007)
IEC 61672:2013 Class 1	ANSI S1.43 (R2007) Type 1

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2005. **Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2008.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis Model 831 Sound Level Meter Manual, I831.01 Rev O, 2016-09-19

Calibration Check Frequency: 1000 Hz; Reference Sound Pressure Level: 114 dB re 20 µPa; Reference Range: 0 dB gain

Periodic tests were performed in accordance with precedures from IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part3.

Pattern approval for IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1 successfully completed by Physikalisch-Technische Bundesanstalt (PTB) on 2016-02-24 certificate number DE-15-M-PTB-0056.

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013 / ANSI/ASA S1.4-2014/Part 3, for the environmental conditions under which the tests were performed. As evidence was publicly available, from an independent testing organization responsible for approving the results of pattern-evaluation tests performed in accordance with IEC 61672-2:2013 / ANSI/ASA S1.4-2014/Part 2, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1; the sound level meter submitted for testing conforms to the class 1specifications in IEC 61672-1:2013 / ANSI/ASA S1.4-2014/Part 1.

Description	Standards Used		
	Cal Date	Cal Due	Cal Standard
Hart Scientific 2626-S Humidity/Temperature Sensor	2016-06-17	2017-06-17	006946
SRS DS360 Ultra Low Distortion Generator	2016-07-06	2017-07-06	007118

Certificate Number: 1677

CERTIFICATE OF CALIBRATION

Certificate Number: **1677** **NATA Accreditation No: 15841**

Customer: Noise Measurement Services
18 Lade Street, Enoggera, QLD 4051
Max Thorne

Test object:	Manufacturer:	Test object:	Serial no:	ID:
Sound level meter	Larson Davis	LD831	0003337	1677
Microphone:	PCB	377B02	LW137483	1677
Preamplifier	PCB	PRM831	026076	1677
Calibrator	None			
Wind screen	None			

Environmental conditions:	Pressure:	Temperature:	Relative humidity:
Reference conditions:	101.325 kPa	23.0 °C	50 %RH
Conditions before measurement:	101.70 ±0.03 kPa	24.1 ±0.4 °C	61.4 ±2.8 %RH
Conditions after measurement:	101.72 ±0.03 kPa	24.4 ±0.4 °C	54.3 ±2.8 %RH

The measurements are performed according to the *IEC 61672 Sound level meters – Part 3: Periodic tests*, *DIN 45657 Sound Level Meters – Requirements for Special Applications* and *IEC 61260 Electroacoustics – Octave-band and fractional-octave-band filters*.

The expanded uncertainty of measurement is reported at approximately 95% confidence level with a coverage factor k, of 2.

Accredited for compliance with ISO/IEC 17025.

Date of calibration: 13/10/17
Date of issue: 16/10/17
Technician: Jaie Wilde
Authorised Signatory:

Beau Weyers

Certificate Number: 1599

CERTIFICATE OF CALIBRATION

Certificate Number: **1599** **NATA Accreditation No: 15841**

Customer: Noise Measurement Services
18 Lade Street, Enoggera, QLD 4051
Max Thorne

Test object:	**Manufacturer:**	**Test object:**	**Serial no:**	**ID:**
Sound level meter	Larson Davis	LD831	0003339	1599
Microphone:	PCB	377B02	LW137484	1599
Preamplifier	PCB	PRM831	026978	1599
Calibrator	None			
Wind screen	None			

Environmental conditions:	**Pressure:**	**Temperature:**	**Relative humidity:**
Reference conditions:	101.325 kPa	23.0 °C	50 %RH
Conditions before measurement:	102.45 ±0.03 kPa	23.1 ±0.4 °C	44.2 ±2.8 %RH
Conditions after measurement:	102.16 ±0.03 kPa	25.0 ±0.4 °C	43.0 ±2.8 %RH

The measurements are performed according to the *IEC 61672 Sound level meters – Part 3: Periodic tests*, *DIN 45657 Sound Level Meters – Requirements for Special Applications* and *IEC 61260 Electroacoustics – Octave-band and fractional-octave-band filters*.

The expanded uncertainty of measurement is reported at approximately 95% confidence level with a coverage factor k, of 2.

Accredited for compliance with ISO/IEC 17025.

Date of calibration: 13/07/17
Date of issue: 13/07/17
Authorised Signatory:

Beau Weyers

Certificate Number: 1720

CERTIFICATE OF CALIBRATION

Certificate Number: **1720** **NATA Accreditation No: 15841**

Customer: Noise Measurement Services
18 Lade Street, Enoggera, QLD, 4051
Max Thorne

Test object:	Manufacturer:	Test object:	Serial no:	ID:
Sound level meter	Larson Davis	LD831	0003340	1720
Microphone:	PCB	377B02	LW137489	1720
Preamplifier	PCB	PRM831	026079	1720
Calibrator	Rion	NC-73	10697026	1719
Wind screen	None			

Environmental conditions:	Pressure:	Temperature:	Relative humidity:
Reference conditions:	101.325 kPa	23.0 °C	50 %RH
Conditions before measurement:	102.13 ±0.03 kPa	24.9 ±0.4 °C	52.9 ±2.8 %RH
Conditions after measurement:	101.96 ±0.03 kPa	24.6 ±0.4 °C	49.5 ±2.8 %RH

The measurements are performed according to the *IEC 61672 Sound level meters – Part 3: Periodic tests*, *DIN 45657 Sound Level Meters – Requirements for Special Applications* and *IEC 61260 Electroacoustics – Octave-band and fractional-octave-band filters*.

The expanded uncertainty of measurement is reported at approximately 95% confidence level with a coverage factor k, of 2.

Accredited for compliance with ISO/IEC 17025.

Date of calibration: 10/11/17
Date of issue: 10/11/17
Supervisor

Claire Richardson

Acoustic Research Labs Pty Ltd
Level 7 Building 2 423 Pennant Hills Rd
Pennant Hills NSW AUSTRALIA 2120
Ph: +61 2 9484 0800 A.B.N. 65 160 399 119
www.acousticresearch.com.au

Sound Level Meter
IEC 61672-3.2013
Calibration Certificate

Calibration Number C18272

Client Details AECOM Australia Pty Ltd
Level 21, 420 George Street
Sydney NSW 2000

Equipment Tested/ Model Number : Rion NL-52EX
Instrument Serial Number : 00164395
Microphone Serial Number : 10072
Pre-amplifier Serial Number : 54466

Pre-Test Atmospheric Conditions
Ambient Temperature : 22.2°C
Relative Humidity : 41.8%
Barometric Pressure : 99.81kPa

Post-Test Atmospheric Conditions
Ambient Temperature : 22.3°C
Relative Humidity : 41.8%
Barometric Pressure : 99.8kPa

Calibration Technician : Vicky Jaiswal
Calibration Date : 18 May 2018
Secondary Check: Riley Cooper
Report Issue Date : 21 May 2018

Approved Signatory : Ken Williams

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	*Pass*	17: Level linearity incl. the level range control	*Pass*
13: Electrical Sig. tests of frequency weightings	*Pass*	18: Toneburst response	*Pass*
14: Frequency and time weightings at 1 kHz	*Pass*	19: C Weighted Peak Sound Level	*Pass*
15: Long Term Stability	*Pass*	20: Overload Indication	*Pass*
16: Level linearity on the reference level range	*Pass*	21: High Level Stability	*Pass*

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation test performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2013.

Least Uncertainties of Measurement -

Acoustic Tests		Environmental Conditions	
31.5 Hz to 8kHz	*±0.15dB*	*Temperature*	*±0.3°C*
12.5kHz	*±0.21dB*	*Relative Humidity*	*±2.5%*
16kHz	*±0.29dB*	*Barometric Pressure*	*±0.017kPa*
Electrical Tests			
31.5 Hz to 20 kHz	*±0.12dB*		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This calibration certificate is to be read in conjunction with the calibration test report.

Acoustic Research Labs Pty Ltd is NATA Accredited Laboratory Number 14172.
Accredited for compliance with ISO/IEC 17025 - calibration.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

NATA WORLD RECOGNISED ACCREDITATION

Acoustic Research Labs Pty Ltd
Level 7 Building 2 423 Pennant Hills Rd
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Octave Band Filter

AS 4476:1997

Calibration Certificate

Calibration Number C18240A

Client Details AECOM Australia Pty Ltd
Level 21, 420 George Street
Sydney NSW 2000

Filter Model Number : Rion NL-52EX
Filter Serial Number : N/A
Instrument Serial Number : 00164395
Microphone Serial Number : 10072
Pre-amplifier Serial Number : 54466

Atmospheric Conditions
Ambient Temperature : 22°C
Relative Humidity : 41.8%
Barometric Pressure : 99.96kPa

Calibration Technician : Vicky Jaiswal
Calibration Date : 18/05/2018
Secondary Check: Riley Cooper
Report Issue Date : 21 May 2018

Approved Signatory : Ken Williams

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
4.4 & 5.3: 1/1 Octave relative attenuation	*Pass*	4.6 & 5.5: Linear operating range	*Pass*
4.4 & 5.3: 1/3 Octave relative attenuation	*Pass*	4.8 & 5.7: Anti-alias filters	*Pass*
		4.10 & 5.9: Flat frequency response	*Pass*

The fractional octave band meter under test has been shown to conform to the class 1 requirements for periodic testing as described in AS 4476:1997 for the tests stated above.

Least Uncertainties of Measurement -

Electrical Tests

< 16Hz	*±0.19dB*
16Hz-100Hz	*±0.11dB*
100Hz-1000Hz	*±0.1dB*
1000Hz-10kHz	*±0.1dB*
>10kHz	*±0.16dB*

Environmental Conditions

Temperature	*±0.3°C*
Relative Humidity	*±2.5%*
Barometric Pressure	*±0.017kPa*

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This calibration certificate is to be read in conjunction with the calibration test report.

Acoustic Research Labs Pty Ltd is NATA Accredited Laboratory Number 14172.
Accredited for compliance with ISO/IEC 17025 - calibration.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

NATA WORLD RECOGNISED ACCREDITATION

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Octave Band Filter

AS 4476:1997

Calibration Certificate

Calibration Number C18241A

Client Details AECOM Australia Pty Ltd
Level 21, 420 George Street
Sydney NSW 2000

Filter Model Number : Rion NL-52EX
Filter Serial Number : N/A
Instrument Serial Number : 00553967
Microphone Serial Number : 07713
Pre-amplifier Serial Number : 54467

Atmospheric Conditions
Ambient Temperature : 22.4°C
Relative Humidity : 44%
Barometric Pressure : 100.52kPa

Calibration Technician : Vicky Jaiswal
Calibration Date : 16/05/2018
Secondary Check: Riley Cooper
Report Issue Date : 21 May 2018

Approved Signatory : Ken Williams

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
4.4 & 5.3: 1/1 Octave relative attenuation	*Pass*	4.6 & 5.5: Linear operating range	*Pass*
4.4 & 5.3: 1/3 Octave relative attenuation	*Pass*	4.8 & 5.7: Anti-alias filters	*Pass*
		4.10 & 5.9: Flat frequency response	*Pass*

The fractional octave band meter under test has been shown to conform to the class 1 requirements for periodic testing as described in AS 4476:1997 for the tests stated above.

Least Uncertainties of Measurement -

Electrical Tests

< 16Hz	*±0.19dB*
16Hz-100Hz	*±0.11dB*
100Hz-1000Hz	*±0.1dB*
1000Hz-10kHz	*±0.1dB*
>10kHz	*±0.16dB*

Environmental Conditions

Temperature	*±0.3°C*
Relative Humidity	*±2.5%*
Barometric Pressure	*±0.017kPa*

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

This calibration certificate is to be read in conjunction with the calibration test report.

Acoustic Research Labs Pty Ltd is NATA Accredited Laboratory Number 14172.
Accredited for compliance with ISO/IEC 17025 - calibration.

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WORLD RECOGNISED ACCREDITATION

CERTIFICATE OF CALIBRATION

CERTIFICATE NO.: **SLM 22333 & FILT 4450**

Equipment Description:	Sound & Vibration Analyser		
Manufacturer:	Svantek		
Model No:	Svan-957	**Serial No:**	27551
Microphone Type:	7052E	**Serial No:**	70011
Filter Type:	1/3 Octave	**Serial No:**	27551
Comments:	All tests passed for class 1. (See over for details)		
Owner:	AECOM Australia Pty Ltd Level 8, 540 Wickham Street Fortitude Valley QLD 4006		
Ambient Pressure:	1002 hPa ±1.5 hPa		
Temperature:	23 °C ±2° C	**Relative Humidity:**	51% ±5%
Date of Calibration:	12/03/2018	**Issue Date:**	13/02/2018
Acu-Vib Test Procedure:	AVP10 (SLM) & AVP06 (Filters)		

CHECKED BY: ..... **AUTHORISED SIGNATURE:** .....
Jack Kielt

Accredited for compliance with ISO/IEC 17025 - Calibration
The results of the tests, calibration and/or measurements included in this document are traceable to Australian/national standards.

NATA
WORLD RECOGNISED ACCREDITATION

Accredited Lab. No. 9262
Acoustic and Vibration Measurements

ACU-VIB
ELECTRONICS

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C.2 Road traffic noise measurements

C.2.1 Methodology

Noise measurements were undertaken in accordance with CoP V1 Chapter 4.3.1 “Measurements”. The selection of the measurement locations, and the measurement methodology had been discussed and agreed with ARTC prior to the conduct of the measurements. Signed Notices of Entry received before the survey were obtained to monitor at these sites.

One environmental noise monitor was installed at each monitoring location to conduct continuous unattended noise monitoring for a period up to 7 days, excluding the time to deploy and retrieve the equipment. The noise monitors were set up to continuously measure the L_{Amin}, L_{A90}, L_{Aeq}, L_{A10}, L_{A1} and L_{Amax} noise descriptors at 1-hour intervals. The monitors were set up to measure A-weighted noise levels with a FAST instrument response, as per the CoP V1 requirements.

AECOM carried out two sets of 15-minute-long attended noise measurements; one at the start and one at the end of the unattended measurement period. The measurements were unattended for the remaining time on site.

Other CoP V1 requirements comprise:

- The rainfall and wind speed during the period of noise measurements are recorded using a local weather station.
- Average 1-hour wind speeds greater than 3 m/s at the logger microphone, or average rain fall greater than 0.3 mm/hr are both defined as “adverse weather” conditions. Noise data collected during periods with adverse weather are to be discarded and replaced with interpolated data. When there are more than two consecutive hours of adverse weather, or more than three non-consecutive hours of adverse weather occurring in a 24-hour period, the data for the entire period is to be discarded.
- Noise measurements are to be conducted during normal traffic flow conditions, i.e. on weekdays and outside school holiday periods and public holidays.

Noise monitoring is undertaken with the microphone generally either:

- 1.0 m from the façade of a noise-sensitive building, approximately at the centre of the ground or first floor window at the most exposed façade; or
- At least 3.5 m from all reflecting surfaces (i.e. in the free-field) and at the height representative of the centre of the ground or first floor window.

Reflecting surfaces include building walls, sheds, solid fences etc. Positioning the microphone at least 3.5 m away from reflecting surfaces removes the influence of reflected noise to a point where it does not significantly affect (increase) the measured noise levels. It is commonly accepted that a microphone placed 1 m in front of a reflective building façade will provide a noise level approximately 2.5 dB louder than a microphone placed in the free field, as stated in the CoP V1.

Noise measurements were undertaken using a microphone height of 1.8 m at single storey buildings on slab (adjusted for elevated buildings). Microphones were located nominally 1 m from the building facade or located 3.5 m away from reflecting walls, depending on the operator’s judgement when setting up the equipment. L_{Amax}, L_{A1}, L_{A10}, L_{A90} and L_{Aeq} parameters were taken in one hour averaging periods.

C.2.2 Measurement locations and instrumentation

Measurement locations, and details of the equipment used for unattended long-term noise measurements, are presented in Table C.5. All noise loggers used for long term measurements met the Class 1 requirements for a Sound Level Meter (SLM).

Table C.5 Unattended road traffic noise measurement details

Monitor location	Address[1]/Lot #/Monitor location	Start date	End date	Logger type	Serial number	Lab calibration date
MP1	11154 Warrego Highway, Kingsthorpe. Lot No. 11SP285307 1.0m from Building Facade	13/06/2022	20/06/2022	01dB Cube	11100	16/09/2021
MP2	1670 Toowoomba Cecil Plains Road, Biddeston. Lot No. 2AG3200. Free field	13/06/2022	20/06/2022	01dB Cube	11107	28/10/2021
MP3	2347 Gore Highway, Southbrook. Lot No. 31SP119042 Free field	13/06/2022	20/06/2022	01dB Cube	11098	14/04/2021
MP4	22 Lochaber Road, Pittsworth. Lot No. 6RP212368 1.0m from Building Facade	14/06/2022	20/06/2022	01dB Cube	10835	13/04/2022
MP5	Quibet Road, Scrubby Mountain. Lot No. 62SP146089 Free field	14/06/2022	20/06/2022	01dB Cube	11096	14/04/2021
MP6	638 Brookstead Norwind Road, Brookstead. Lot No. 4RP83169. 1.0m from Building Facade	14/06/2022	20/06/2022	01dB Duo	12072	16/08/2021
MP7	358 Elsden Road, Brookstead. Lot No. 2SP119342. Free field	14/06/2022	20/06/2022	01dB Duo	10585	13/04/2022
MP8	6296 Gore Highway, Pampas. Lot No. 1RP37110. Free field	21/06/2022	29/06/2022	01dB Cube	10835	13/04/2022
MP9	554 Millmerran Inglewood Road, Millmerran. Lot No. 2RP 233820. 1.0m from Building Facade	21/06/2022	29/06/2022	01dB Cube	11107	28/10/2021
MP10	71 Kaboon Street, Yelarbon. Lot No. 12Y5699. 1.0m from Building Facade	22/06/2022	30/06/2022	01dB Cube	11096	14/04/2021
MP11	6 Taloom Street, Yelarbon. Lot No. 103Y5691. Free field	22/06/2022	30/06/2022	01dB Cube	11098	14/04/2021
MP12	4 Bengalla Street, Yelarbon. Lot No. 1501Y56917. 1.0m from Building Facade	22/06/2022	30/06/2022	01dB Cube	11100	16/09/2021

Table note:

1 The noise measurement locations are shown within the site overview map included in Appendix A.

The attended measurements were taken at the same locations above using a Class 1 B&K 2250 sound level meter (serial number 3009335), factory calibrated on 9 February 2022.

All acoustic instrumentation used for the assessment complied with the requirements of AS IEC 61672.1-2004 *Electroacoustics – Sound level meters – Specifications,* were within their current NATA certified in-calibration period (i.e. calibration in the last two years), and were field-calibrated before and after measurement sessions with a drift in calibration not exceeding ±0.5 dB.

C.2.3 Attended noise measurement results

Attended noise measurements were conducted at all unattended measurement locations in June 2022. Each measurement was conducted over a 15-minute period. The measurement results from the attended measurements are presented in Table C.6. Measurement data sheets are provided in Appendix C.2.5.

Table C.6 Attended noise measurement results

Site[1]	Date	Time	Summary of observations[2]	L_{Amax}, (15min), dB(A)	L_{A1} (15min), dB(A)	L_{A10}, (15min), dB(A)	L_{A90}, (15min), dB(A)	L_{Aeq}, (15min), dB(A)
MP1	13/06/2022	1:00 pm	▪ Warrego Hwy traffic noise at 40-60 dB(A)	60.2	56.0	45.7	36.7	43.9
	20/06/2022	10:30 am	▪ Warrego traffic noise at 42-60 dB(A)	60.5	52.5	48.5	40.0	45.6
MP2	13/06/2022	2:47 pm	▪ Wellcamp Airport aircraft noise 55 –70 dB(A). ▪ Traffic hum at 33 dB(A)	70.4	65.8	44.2	32.3	54.0
	20/06/2022	11:34 am	▪ Wellcamp Airport aircraft noise 55 –58 dB(A). ▪ Traffic hum at 30 dB(A). ▪ Warrego Highway traffic noise at 40 dB(A)	57.9	52.1	44.2	32.9	41.5
MP3	13/06/2022	4:45 pm	▪ Gore Highway traffic noise at 53-80 dB(A)	80.3	68.4	62.7	51.7	60.2
	20/06/2022	12:31 pm	▪ Gore Highway traffic noise at 38-68 dB(A)	67.8	62.6	62.7	51.7	60.2
MP4	13/06/2022	4:45 pm	▪ Gore Highway traffic noise at 42-68 dB(A) ▪ Dog noise at 60-71 dB(A)	71.5	66.4	60.7	40.5	56.3
	20/06/2022	12:31 pm	▪ Gore Highway traffic noise at 46-70 dB(A) ▪ Dog noise at 65-77 dB(A)	77.5	69.7	64.1	44.6	59.9
MP5	13/06/2022	12:41 pm	▪ Gore Highway traffic noise at 42-68 dB(A) ▪ Oakley Pittsworth Road traffic noise at 60-82 dB(A)	82.0	73.9	61.7	40.6	60.6
	20/06/2022	2:50 pm	▪ Gore Highway traffic noise at 46-65 dB(A) ▪ Oakley Pittsworth Road traffic noise at 60-81 dB(A)	81.4	74.3	62.1	46.6	61.0
MP6	14/06/2022	2:20 pm	▪ Gore Highway traffic noise at 38-70 dB(A) ▪ Dogs at 65–84 dB(A)	84.1	72.7	67.1	39.3	62.6
	20/06/2022	4:00 pm	▪ Gore Highway traffic noise at 42-75 dB(A)	75.7	74.0	68.1	41.9	63.6
MP7	14/06/2022	4:38 pm	▪ Gore Highway traffic noise at 38-57 dB(A) ▪ Dogs at 60 – 73 dB(A)	73.4	57.0	53.0	37.2	48.8
	20/06/2022	4:50 pm	▪ Gore Highway traffic noise at 47-64 dB(A) ▪ Dogs at 60 – 69 dB(A)	69.6	65.7	60.6	46.6	56.3

Site[1]	Date	Time	Summary of observations[2]	L_{Amax}, (15min), dB(A)	L_{A1} (15min), dB(A)	L_{A10}, (15min), dB(A)	L_{A90}, (15min), dB(A)	L_{Aeq}, (15min), dB(A)
MP8	21/06/2022	11:43 am	▪ Gore Highway traffic noise at 42-74 dB(A)	74.0	68.4	60.7	39.8	56.6
	29/06/2022	10:00 am	▪ Gore Highway car noise at 44-57 dB(A) ▪ Gore Highway H.V. noise at 52-71 dB(A) ▪ Gore Highway distant traffic noise at ~34 dB(A)	67.6	62.3	55.4	37.1	51.4
MP9	21/06/2022	11:43 am	▪ Millmerran Inglewood Road traffic noise at 31-62 dB(A) ▪ Aircraft at 50-66 dB(A)	66.7	58.6	53.0	31.0	48.0
	29/06/2022	10:00 am	▪ Millmerran Inglewood Road car noise at 46-57 dB(A) ▪ Millmerran Inglewood Road H.V. noise at 56-65 dB(A) ▪ Millmerran Inglewood Road distant traffic noise at ~34 dB(A) ▪ Aircraft at 47-59 dB(A) ▪ Birds at 40-48 dB(A)	65.8	61.9	53.9	37.4	50.3
MP10	22/06/2022	9:30 am	▪ Cunningham Highway traffic noise at 42-70 dB(A)	70.5	67.0	60.9	40.9	56.3
	30/06/2022	11:02 am	▪ Cunningham Highway Car noise at 39-54 dB(A) ▪ Cunningham Highway H.V. at 51-73 dB(A) ▪ Cunningham Highway distant traffic noise at 27-60 dB(A) ▪ Kaboon Street Car noise at 49-56 dB(A) ▪ Bird noise at 48-60 dB(A)	73.0	66.9	61.0	38.7	56.1
MP11	22/06/2022	10:42 am	▪ Cunningham Highway traffic noise at 60-85 dB(A)	85.7	76.0	66.0	41.5	63.8
	29/06/2022	5:14 pm	▪ Cunningham Highway Car noise at 52-65 dB(A) ▪ Cunningham Highway H.V. at 62-83 dB(A) ▪ Cunningham Highway distant traffic noise at ~33 dB(A) ▪ Bird noise at 36-67 dB(A)	87.3	62.4	62.8	39.0	74.4
MP12	22/06/2022	11:49 am	▪ Trucks on Wondalli Street 70 – 75 dB(A)	75.0	67.6	51.0	34.5	53.8
	30/06/2022	8:44 am	▪ Wondalli Street car at 64 dB(A) ▪ Wondalli Street H.V. at 62-78 dB(A) ▪ Cunningham Highway distant traffic at 38-55 dB(A)	78.9	73.5	51.4	38.0	58.6

Table notes:

1 The noise measurement locations are shown within the site overview map included in Appendix A.

2 The noise levels listed in the summary of observations are based on the range of instantaneous noise levels observed using the sound level meter during the measurement period.

Road traffic was the dominant noise source at all the measurement locations listed in Table C.6, except for MP2. At MP2 a combination of road traffic noise and aircraft noise from Wellcamp Airport was observed, with aircraft noise levels being intermittent but louder than the surrounding roads, including Toowoomba Cecil Plains Road and the Warrego Highway. For a number of the measurement locations, traffic noise was intermittent, as indicated by the difference between the traffic noise levels noted in the summary of observations column and the $L_{A10(15min)}$ results, but road traffic noise remained the dominant noise source across the measurement period.

C.2.4 Weather monitoring results

The rainfall and wind speed during the period of noise measurements were recorded using a portable weather station at Sites MP4, MP7, MP9 and MP10. The weather station was located a minimum of 5 m from the nearest building. The measured data comprised:

- Average and maximum wind speed
- Average temperature
- Rainfall
- Humidity
- Air pressure.

Wind speeds (hourly averaged) greater than 3 m/s, or rainfall greater than 0.3 mm/h are both defined as “adverse weather” conditions according to CoP V1. Noise data collected during periods of adverse weather has been discarded and replaced with interpolated data (where the noise level during the hour before and hour after is averaged and assigned to the weather-affected hour/s). Where more than two consecutive hours of adverse weather, or more than a total of three non-consecutive hours of adverse weather conditions occurs in a 24 hour monitoring period, the data for the entire 24 hour period has been discarded.

C.2.5 Road traffic noise measurement site sheets

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP1

Address	11154 Warrego Highway	**Monitoring Start**	13/06/2022	**Dominant Road**	Warrego Highway
Suburb	Kingsthorpe	**Monitoring Finish**	20/06/2022	**Dist. to Road (m)**	733
District	Toowoomba	**Mic. Height (m)**	1.7	**Start Cal. (dB(A))**	94.0
Latitude	-27.499046°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	94.3
Longitude	151.821833°	**Monitor Serial**	11100	**Operator**	LAN
Lot No.	11SP285307	**Measurement**	Façade	**Sample Interval**	1 hour

Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
53.3	**54.7**	**60.1**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Monday, 13 June 2022	-^	-^	-^
Tuesday, 14 June 2022	51.0	52.7	59.5
Wednesday, 15 June 2022	50.3	52.1	55.5
Thursday, 16 June 2022	54.3	55.1	57.9
Friday, 17 June 2022	57.8	59.2	67.5
Saturday, 18 June 2022	52.2	55.7	72.0
Sunday, 19 June 2022	50.5	53.2	63.4
Monday, 20 June 2022	-^	-^	-^

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos

Attended Measurement Summary

Attended Measurement #1: Monday, 13 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
1:00 PM	1:15 PM	Attended	43.9	34.3	60.2	56.0	45.7	36.7
1:00 PM	2:00 PM	Logger	47.0	32.3	67.1	59.9	45.7	36.4

Comments

Traffic on Warrego Highway is the dominant noise. Other noises include: bird noise from the trees in front, a truck from leaving the property, and stomping inside the house. A dog was noted on the property, however it did not bark.

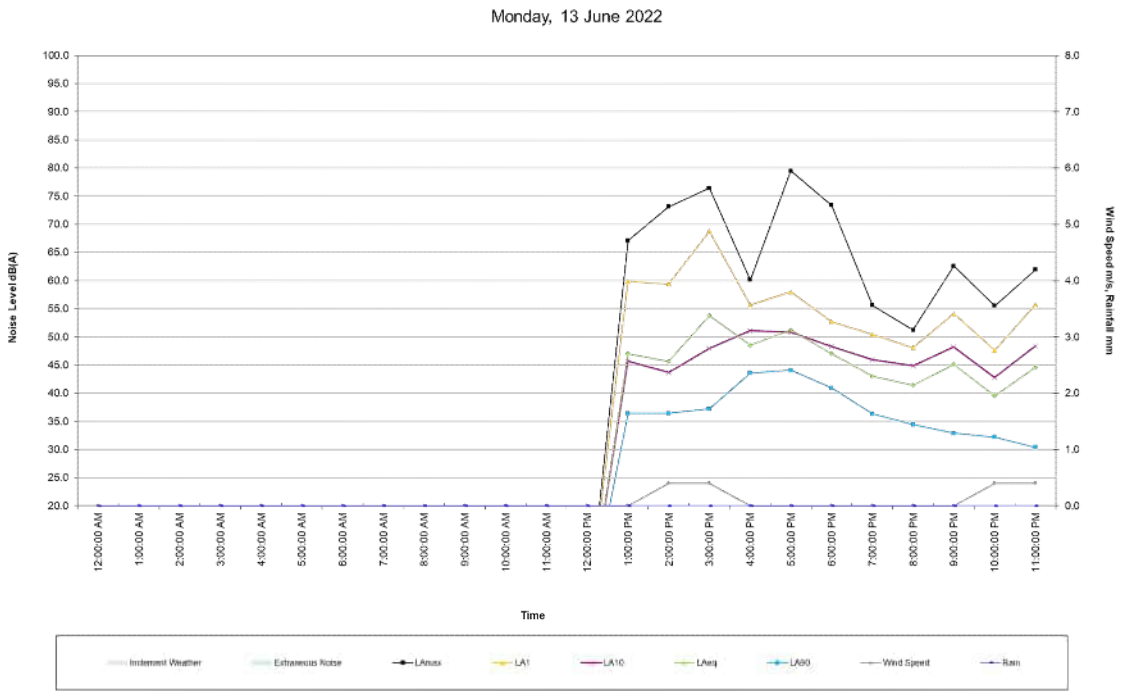
Attended Measurement #2: Monday, 20 June 2022

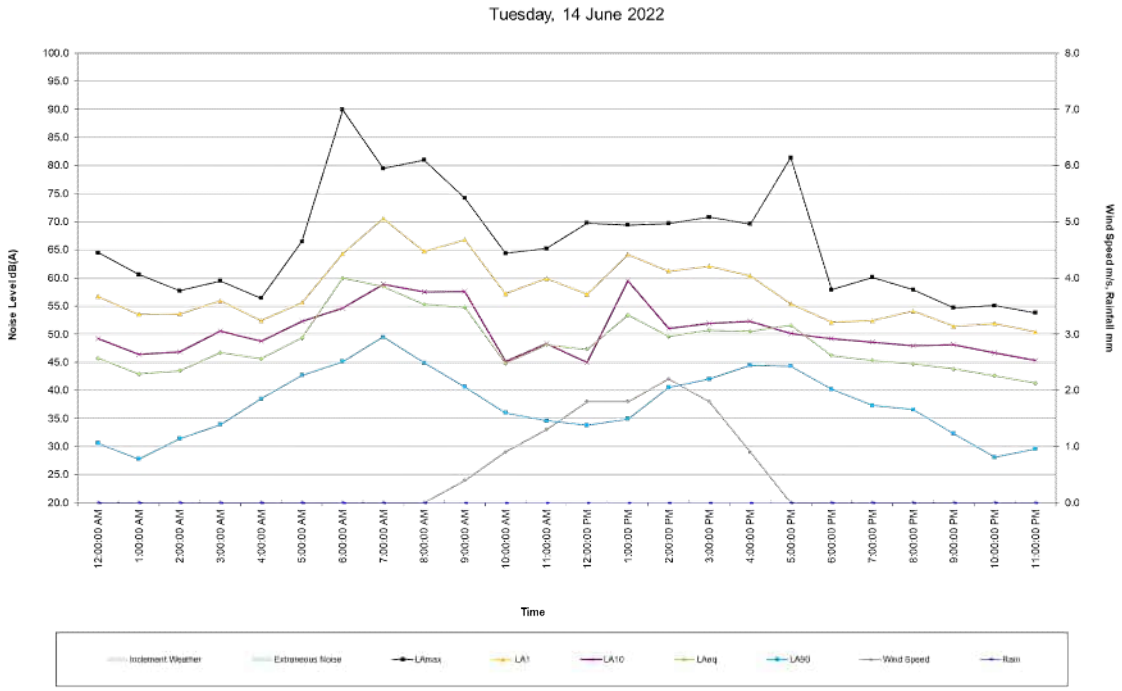
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
10:30 AM	10:45 AM	Attended	45.6	36.7	60.5	52.5	48.5	40.0
10:00 AM	11:00 AM	Logger	47.5	34.9	64.3	59.4	49.0	39.2

Comments

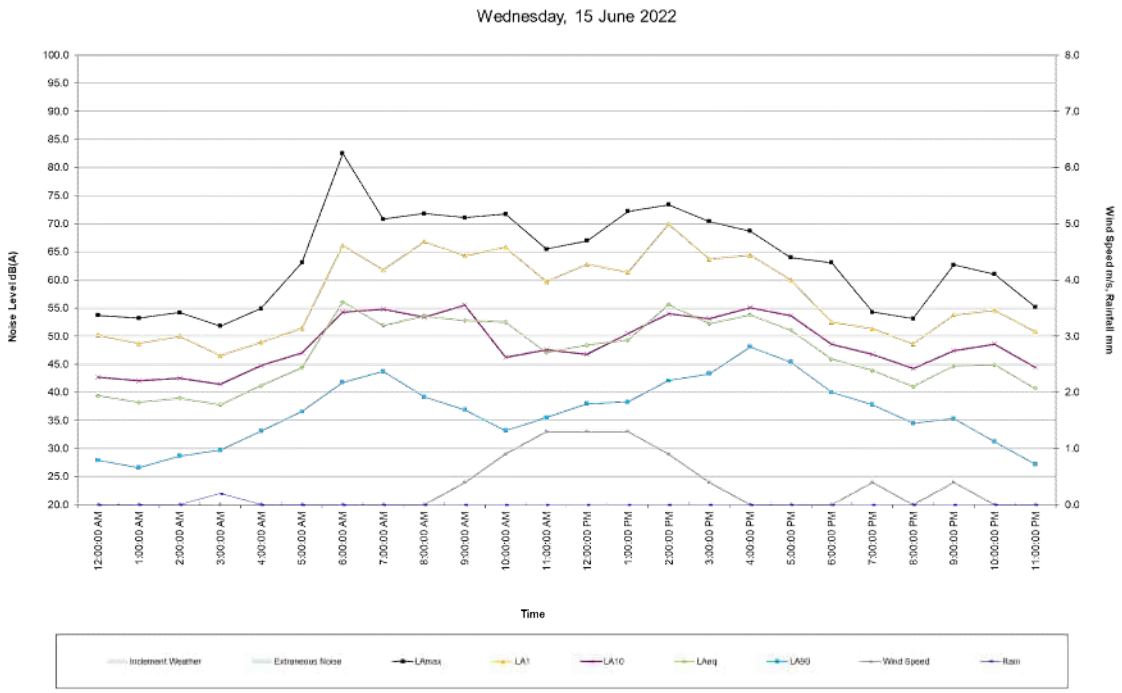
Traffic on Warrego Highway is the dominant noise. Other noises included bird noise.

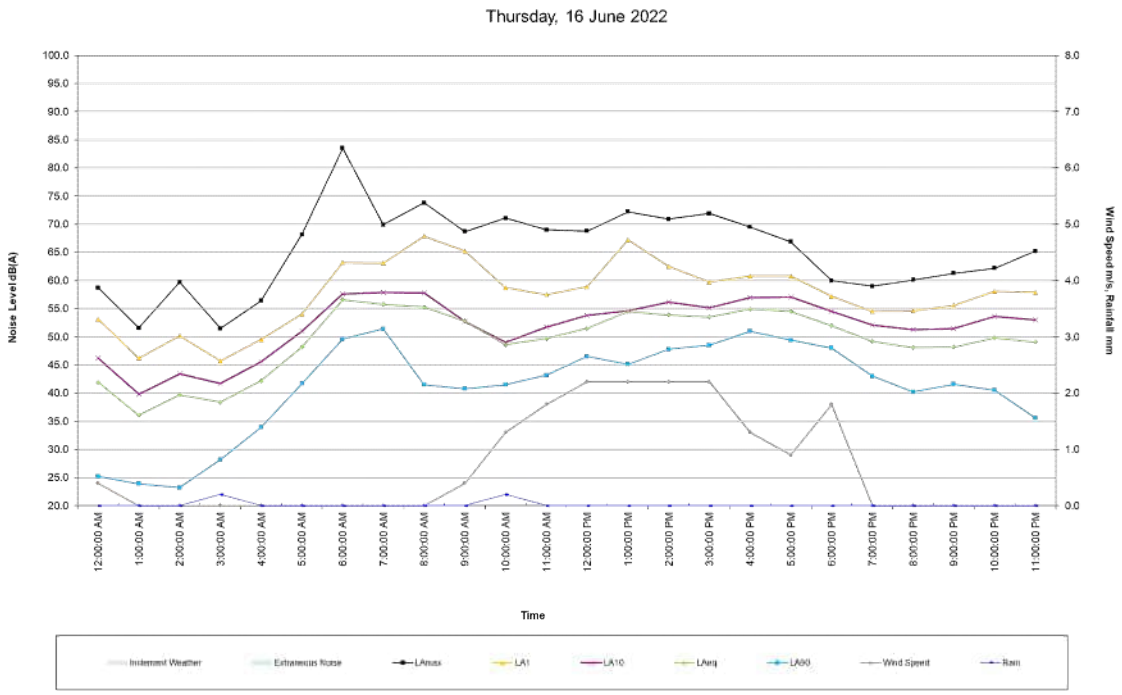
Site Noise and Weather Conditions



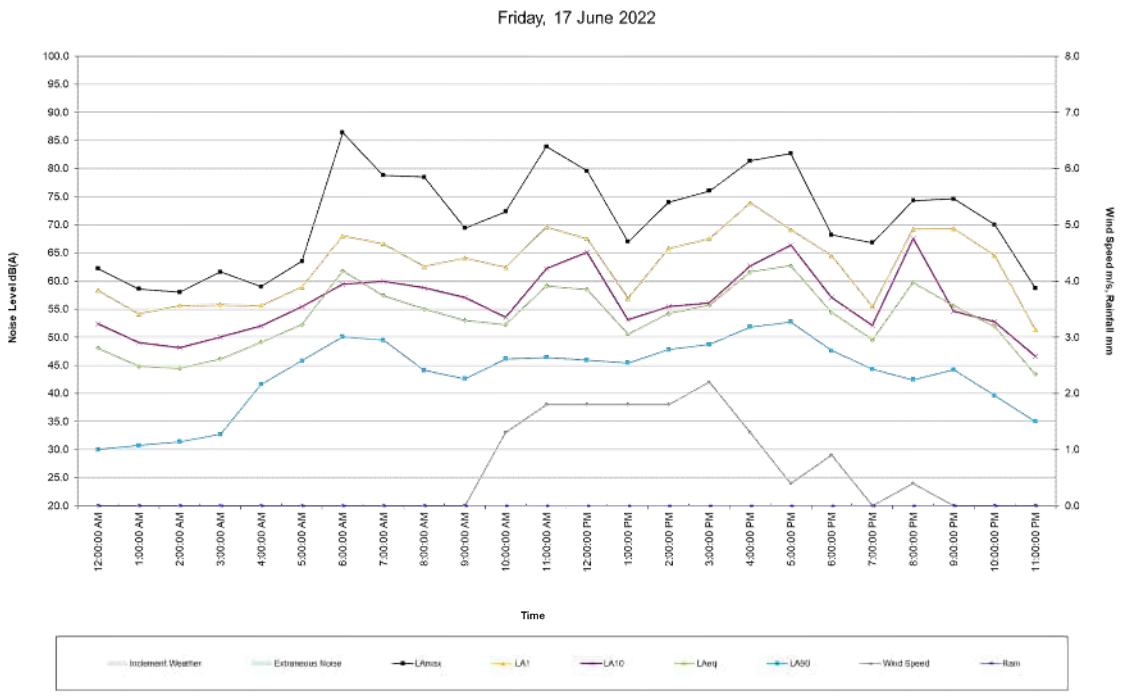


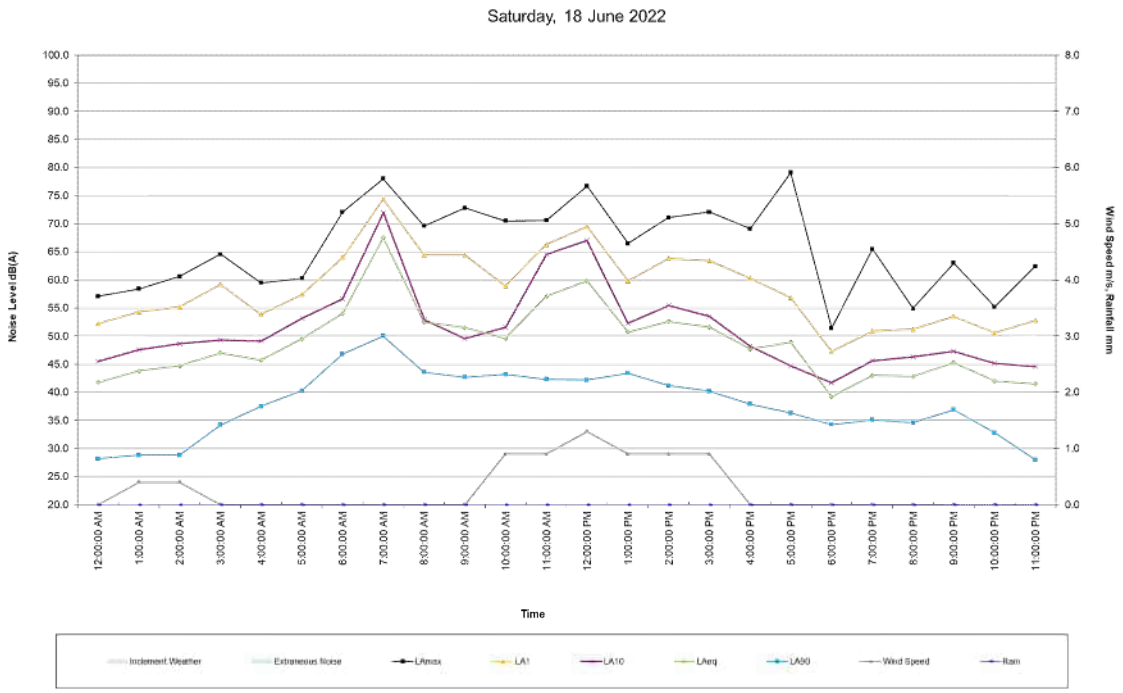
Site Noise and Weather Conditions



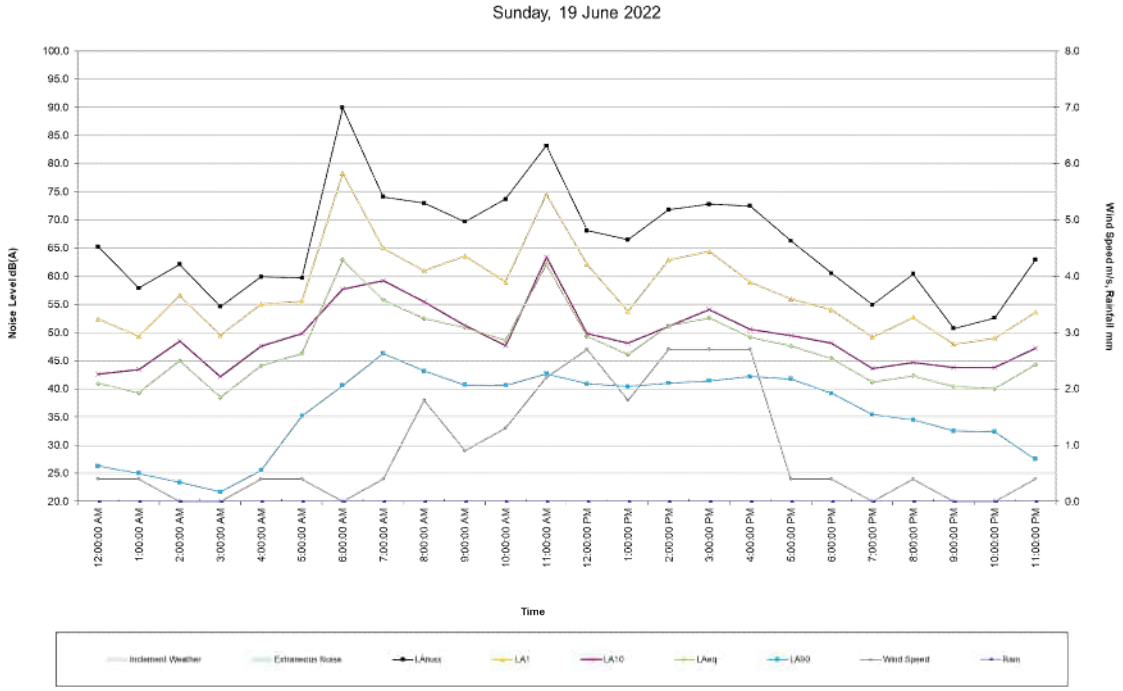


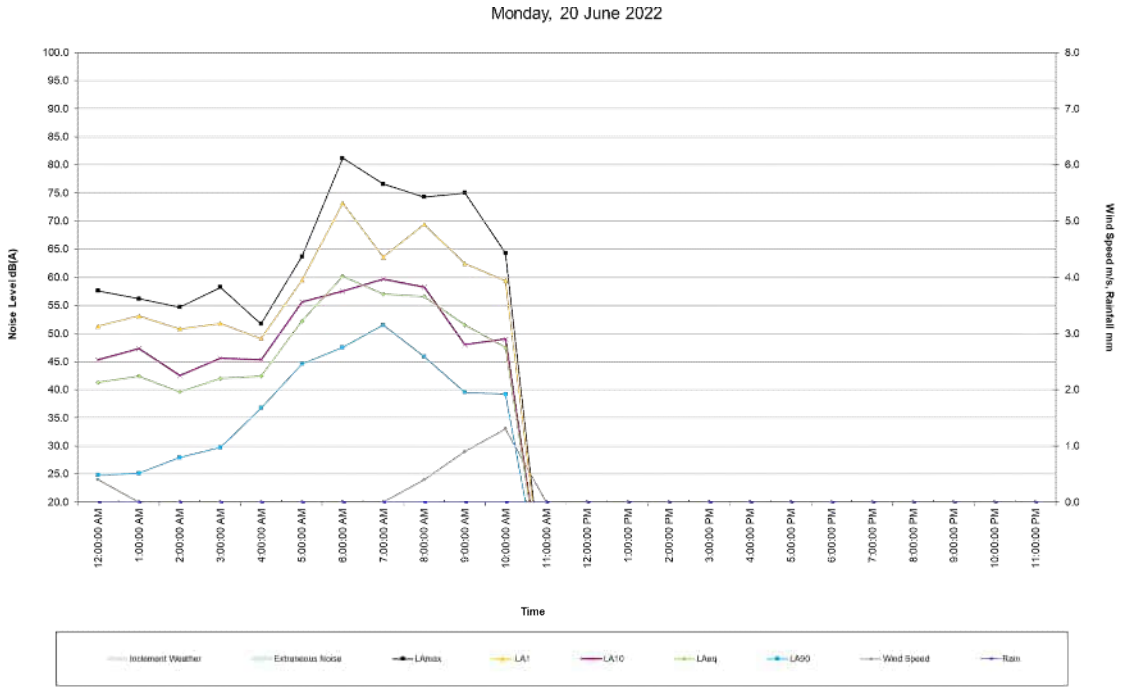
Site Noise and Weather Conditions





Site Noise and Weather Conditions





Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
13/06/22 13:00	47.0	67.1	59.9	45.7	36.4	32.3	0.0	2.7	W	18.5	51	973	0.0
13/06/22 14:00	45.6	73.1	59.4	43.7	36.4	33.1	0.4	2.2	W	18.6	50	973	0.0
13/06/22 15:00	53.8	76.4	68.8	47.9	37.2	33.1	0.4	2.7	W	18.5	51	973	0.0
13/06/22 16:00	48.5	60.1	55.7	51.1	43.6	38.8	0.0	1.3	W	15.2	64	973	0.0
13/06/22 17:00	51.2	79.5	58.0	50.8	44.1	39.9	0.0	1.3	ESE	13.4	73	974	0.0
13/06/22 18:00	47.0	73.4	52.7	48.3	40.9	34.4	0.0	0.9	SE	12.8	76	976	0.0
13/06/22 19:00	43.0	55.6	50.4	46.0	36.3	32.1	0.0	0.9	ENE	12.5	78	976	0.0
13/06/22 20:00	41.4	51.2	48.1	44.9	34.4	28.9	0.0	0.9	WNW	11.6	81	977	0.0
13/06/22 21:00	45.1	62.6	54.1	48.2	32.9	27.1	0.0	0.9	WNW	8.2	84	977	0.0
13/06/22 22:00	39.5	55.5	47.6	42.8	32.2	26.7	0.4	1.8	WSW	8.4	88	977	0.0
13/06/22 23:00	44.6	61.9	55.7	48.4	30.4	25.0	0.4	1.3	SSE	6.7	89	976	0.0
14/06/22 0:00	45.7	64.5	56.7	49.2	30.6	23.8	0.0	1.3	S	6.8	86	977	0.0
14/06/22 1:00	42.9	60.6	53.5	46.4	27.8	22.8	0.0	0.9	SSE	6.0	87	977	0.0
14/06/22 2:00	43.5	57.7	53.6	46.9	31.4	25.5	0.0	0.9	SSE	5.4	86	976	0.0
14/06/22 3:00	46.7	59.5	55.9	50.6	33.9	28.1	0.0	0.9	SSE	4.2	88	977	0.0
14/06/22 4:00	45.6	56.4	52.4	48.8	38.5	30.2	0.0	0.9	S	3.7	90	977	0.0
14/06/22 5:00	49.3	66.5	55.6	52.3	42.7	33.7	0.0	1.3	S	3.4	93	978	0.0
14/06/22 6:00	60.0	89.9	64.3	54.6	45.1	41.3	0.0	0.9	SSW	4.1	93	978	0.0
14/06/22 7:00	58.5	79.5	70.6	58.9	49.5	45.0	0.0	0.9	SSE	8.7	92	979	0.0
14/06/22 8:00	55.3	81.0	64.7	57.5	44.9	40.7	0.0	0.9	ESE	14.3	81	978	0.0
14/06/22 9:00	54.8	74.2	66.8	57.6	40.6	35.5	0.4	2.7	ESE	17.1	74	978	0.0
14/06/22 10:00	44.8	64.4	57.2	45.1	36.0	32.1	0.9	3.1	ENE	17.4	72	978	0.0
14/06/22 11:00	48.1	65.2	59.9	48.3	34.6	30.1	1.3	4.9	NNE	19.4	63	977	0.0
14/06/22 12:00	47.3	69.8	57.1	45.0	33.8	30.8	1.8	4.5	NW	20.1	59	976	0.0
14/06/22 13:00	53.4	69.4	64.2	59.5	34.9	30.0	1.8	5.4	ENE	20.0	55	972	0.0
14/06/22 14:00	49.6	69.7	61.2	51.0	40.5	34.2	2.2	6.3	E	19.0	65	975	0.0
14/06/22 15:00	50.7	70.8	62.1	51.9	42.0	35.5	1.8	4.5	E	18.3	68	975	0.0
14/06/22 16:00	50.5	69.6	60.4	52.3	44.5	38.0	0.9	3.6	E	15.9	75	974	0.0
14/06/22 17:00	51.6	81.4	55.4	50.1	44.3	39.3	0.0	0.4	E	13.8	84	976	0.0
14/06/22 18:00	46.2	57.9	52.1	49.2	40.2	35.0	0.0	1.3	ENE	13.6	85	977	0.0
14/06/22 19:00	45.3	60.1	52.4	48.6	37.3	31.5	0.0	0.9	SW	13.2	88	977	0.0
14/06/22 20:00	44.7	57.9	54.1	47.9	36.6	28.4	0.0	1.8	WNW	12.6	90	978	0.0
14/06/22 21:00	43.8	54.7	51.4	48.1	32.3	25.3	0.0	1.8	SE	12.3	89	978	0.0
14/06/22 22:00	42.6	55.1	51.9	46.7	28.1	23.4	0.0	0.9	W	12.0	92	978	0.0
14/06/22 23:00	41.3	53.8	50.4	45.3	29.6	22.9	0.0	1.3	ENE	11.8	93	978	0.0
15/06/22 0:00	39.4	53.7	50.2	42.7	27.9	23.4	0.0	0.9	ENE	11.7	93	977	0.0
15/06/22 1:00	38.2	53.2	48.7	42.1	26.6	23.7	0.0	0.9	ENE	11.5	93	977	0.0
15/06/22 2:00	39.0	54.2	50.0	42.5	28.7	23.3	0.0	1.3	ESE	11.0	95	977	0.0
15/06/22 3:00	37.8	51.8	46.5	41.4	29.7	26.8	0.0	0.9	SW	10.8	96	977	0.2
15/06/22 4:00	41.2	54.9	48.9	44.8	33.1	29.2	0.0	1.3	SSW	6.5	92	977	0.0
15/06/22 5:00	44.4	63.1	51.4	47.0	36.6	30.3	0.0	0.4	SW	6.3	96	978	0.0
15/06/22 6:00	56.1	82.5	66.1	54.3	41.8	36.6	0.0	0.9	SW	7.3	97	978	0.0
15/06/22 7:00	51.9	70.8	61.8	54.8	43.7	39.4	0.0	0.4	SW	9.6	97	979	0.0
15/06/22 8:00	53.6	71.8	66.8	53.4	39.2	35.1	0.0	0.4	SE	12.3	96	978	0.0
15/06/22 9:00	52.8	71.1	64.3	55.5	36.9	32.0	0.4	1.8	NNE	15.8	93	978	0.0
15/06/22 10:00	52.5	71.7	65.8	46.2	33.2	29.9	0.9	3.1	NNE	18.4	68	977	0.0
15/06/22 11:00	47.1	65.5	59.7	47.6	35.5	32.5	1.3	3.6	NW	19.4	63	969	0.0
15/06/22 12:00	48.4	67.0	62.8	46.8	38.0	34.4	1.3	4.0	WNW	21.2	50	975	0.0
15/06/22 13:00	49.3	72.2	61.4	50.5	38.3	33.7	1.3	4.0	W	20.5	51	974	0.0
15/06/22 14:00	55.6	73.4	69.9	54.0	42.1	36.0	0.9	3.1	W	21.3	47	974	0.0
15/06/22 15:00	52.2	70.4	63.7	53.1	43.3	36.7	0.4	2.7	WSW	21.7	45	974	0.0
15/06/22 16:00	53.8	68.7	64.4	55.1	48.1	41.7	0.0	0.4	SW	18.3	55	974	0.0
15/06/22 17:00	51.1	64.0	60.0	53.6	45.4	42.0	0.0	0.9	W	14.7	68	974	0.0
15/06/22 18:00	45.9	63.1	52.5	48.6	40.0	36.6	0.0	0.9	W	13.9	71	975	0.0
15/06/22 19:00	43.9	54.3	51.3	46.8	37.8	31.2	0.4	1.3	WSW	13.8	80	976	0.0
15/06/22 20:00	41.0	53.1	48.6	44.2	34.5	31.5	0.0	0.9	SW	11.3	91	976	0.0
15/06/22 21:00	44.7	62.7	53.8	47.4	35.3	25.3	0.4	1.3	WSW	8.2	90	976	0.0
15/06/22 22:00	44.9	61.0	54.6	48.6	31.2	23.5	0.0	0.0	---	8.6	92	976	0.0
15/06/22 23:00	40.7	55.2	50.8	44.4	27.2	21.3	0.0	0.0	---	10.3	96	976	0.0
16/06/22 0:00	41.9	58.7	53.1	46.2	25.2	19.6	0.4	1.3	WSW	10.1	90	976	0.0
16/06/22 1:00	36.1	51.6	46.2	39.8	23.9	19.5	0.0	0.9	SW	6.9	94	976	0.0
16/06/22 2:00	39.7	59.7	50.2	43.4	23.2	20.2	0.0	0.4	SW	8.3	95	975	0.0
16/06/22 3:00	38.4	51.5	45.7	41.7	28.2	20.3	0.0	0.9	SW	8.5	96	975	0.2
16/06/22 4:00	42.2	56.4	49.5	45.6	33.9	26.5	0.0	0.9	SW	5.4	94	975	0.0
16/06/22 5:00	48.2	68.2	54.0	51.0	41.7	37.1	0.0	0.4	WSW	5.7	96	975	0.0
16/06/22 6:00	56.6	83.5	63.2	57.6	49.6	46.3	0.0	0.4	WSW	6.9	96	976	0.0
16/06/22 7:00	55.8	69.9	63.1	57.9	51.4	45.6	0.0	0.4	WSW	8.3	96	976	0.0
16/06/22 8:00	55.3	73.8	67.9	57.8	41.5	38.3	0.0	0.4	SW	11.7	96	976	0.0
16/06/22 9:00	52.8	68.7	65.2	52.7	40.8	37.8	0.4	2.2	NW	15.1	93	975	0.0
16/06/22 10:00	48.6	71.1	58.7	49.0	41.5	37.8	1.3	4.0	WNW	18.3	68	974	0.2
16/06/22 11:00	49.7	69.0	57.5	51.7	43.2	36.8	1.8	5.4	W	19.6	57	973	0.0
16/06/22 12:00	51.5	68.8	58.9	53.8	46.5	41.5	2.2	6.7	W	19.9	51	972	0.0
16/06/22 13:00	54.5	72.2	67.2	54.6	45.1	38.7	2.2	5.8	WSW	20.9	49	972	0.0
16/06/22 14:00	53.9	70.9	62.5	56.2	47.8	41.2	2.2	6.3	WSW	20.9	45	971	0.0
16/06/22 15:00	53.5	71.9	59.7	55.2	48.5	43.0	2.2	5.4	WSW	19.9	42	972	0.0
16/06/22 16:00	54.9	69.5	60.8	57.0	51.0	46.8	1.3	4.0	WSW	16.9	50	971	0.0
16/06/22 17:00	54.5	66.9	60.8	57.1	49.4	45.6	0.9	2.7	WSW	14.6	55	973	0.0
16/06/22 18:00	52.0	60.0	57.2	54.5	48.0	41.8	1.8	3.1	WSW	13.3	58	973	0.0
16/06/22 19:00	49.2	59.0	54.5	52.1	43.0	38.6	0.0	0.4	WSW	8.5	74	974	0.0
16/06/22 20:00	48.1	60.1	54.6	51.3	40.2	32.4	0.0	0.4	WSW	6.9	78	975	0.0
16/06/22 21:00	48.2	61.3	55.6	51.5	41.6	35.0	0.0	0.4	S	7.4	75	975	0.0
16/06/22 22:00	49.8	62.2	58.1	53.6	40.5	31.7	0.0	0.9	S	6.7	72	975	0.0
16/06/22 23:00	49.1	65.2	57.9	53.0	35.6	28.1	0.0	0.4	WSW	5.9	81	975	0.0
17/06/22 0:00	48.0	62.2	58.3	52.4	30.0	24.8	0.0	0.4	WSW	3.5	78	975	0.0
17/06/22 1:00	44.8	58.6	54.1	49.0	30.7	26.1	0.0	0.4	WSW	3.1	86	975	0.0
17/06/22 2:00	44.5	58.0	55.6	48.1	31.4	26.1	0.0	0.9	WSW	5.4	81	974	0.0
17/06/22 3:00	46.1	61.6	55.8	50.0	32.7	24.7	0.0	0.0	---	2.1	91	974	0.0
17/06/22 4:00	49.1	59.0	55.6	52.0	41.6	31.5	0.0	0.4	WSW	1.6	90	975	0.0
17/06/22 5:00	52.2	63.5	58.9	55.4	45.8	35.7	0.0	0.4	WSW	2.9	87	975	0.0
17/06/22 6:00	61.8	86.4	68.0	59.4	50.1	46.1	0.0	0.4	WSW	0.8	88	976	0.0
17/06/22 7:00	57.4	78.8	66.6	60.0	49.5	44.5	0.0	0.4	WSW	5.9	84	976	0.0
17/06/22 8:00	55.0	78.5	62.6	58.8	44.1	41.8	0.0	0.4	SE	12.1	72	975	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
17/06/22 9:00	53.0	69.4	64.1	57.1	42.6	39.2	0.0	1.3	W	16.9	58	974	0.0
17/06/22 10:00	52.2	72.3	62.4	53.5	46.1	41.8	1.3	5.8	WSW	17.7	45	974	0.0
17/06/22 11:00	59.1	83.9	69.6	62.2	46.4	41.4	1.8	4.9	WSW	18.4	45	973	0.0
17/06/22 12:00	58.5	79.6	67.5	65.1	45.9	42.2	1.8	5.4	WSW	18.7	38	972	0.0
17/06/22 13:00	50.5	67.0	56.9	53.1	45.4	39.9	1.8	4.9	WSW	19.3	38	972	0.0
17/06/22 14:00	54.2	74.0	65.8	55.4	47.8	41.2	1.8	5.8	WSW	19.1	39	971	0.0
17/06/22 15:00	55.7	76.0	67.5	56.1	48.7	44.6	2.2	4.9	WSW	18.1	43	972	0.0
17/06/22 16:00	61.6	81.4	73.9	62.7	51.8	45.4	1.3	4.0	WSW	15.1	53	972	0.0
17/06/22 17:00	62.7	82.7	69.1	66.4	52.7	49.3	0.4	1.8	WSW	13.3	60	974	0.0
17/06/22 18:00	54.4	68.2	64.5	57.1	47.6	42.1	0.9	1.8	W	9.5	70	974	0.0
17/06/22 19:00	49.5	66.8	55.4	52.1	44.3	39.2	0.0	0.9	SSE	7.6	79	975	0.0
17/06/22 20:00	59.7	74.3	69.2	67.5	42.4	37.3	0.4	2.2	WSW	5.3	86	975	0.0
17/06/22 21:00	55.6	74.6	69.3	54.6	44.2	39.5	0.0	0.4	WSW	4.6	85	976	0.0
17/06/22 22:00	51.9	70.0	64.5	52.7	39.6	31.9	0.0	0.9	SSE	4.0	90	976	0.0
17/06/22 23:00	43.4	58.7	51.3	46.6	35.0	28.1	0.0	0.4	SW	5.5	93	976	0.0
18/06/22 0:00	41.8	57.1	52.2	45.5	28.2	23.3	0.0	1.3	SSE	4.5	90	976	0.0
18/06/22 1:00	43.8	58.4	54.3	47.6	28.8	24.1	0.4	1.3	S	4.7	90	976	0.0
18/06/22 2:00	44.7	60.6	55.2	48.7	28.8	24.7	0.4	1.8	SSE	4.6	92	976	0.0
18/06/22 3:00	47.0	64.6	59.2	49.3	34.2	27.1	0.0	0.9	S	3.7	90	976	0.0
18/06/22 4:00	45.7	59.5	53.9	49.1	37.5	28.8	0.0	0.4	SW	1.9	92	976	0.0
18/06/22 5:00	49.5	60.3	57.4	53.2	40.3	33.7	0.0	0.4	WSW	2.9	95	977	0.0
18/06/22 6:00	54.0	72.1	64.0	56.6	46.8	42.4	0.0	1.3	WSW	0.8	93	977	0.0
18/06/22 7:00	67.5	78.0	74.4	72.0	50.0	46.1	0.0	0.4	WSW	5.8	93	978	0.0
18/06/22 8:00	52.5	69.6	64.4	52.9	43.6	40.8	0.0	0.4	ESE	10.9	83	977	0.0
18/06/22 9:00	51.5	72.8	64.4	49.6	42.7	39.7	0.0	1.8	N	14.2	72	976	0.0
18/06/22 10:00	49.6	70.5	58.9	51.6	43.2	39.0	0.9	4.0	WSW	17.1	56	976	0.0
18/06/22 11:00	57.1	70.6	66.3	64.6	42.3	38.0	0.9	3.1	SSE	18.7	50	975	0.0
18/06/22 12:00	59.8	76.7	69.5	67.0	42.2	37.1	1.3	3.6	SSE	18.4	48	974	0.0
18/06/22 13:00	50.7	66.5	59.8	52.3	43.4	37.1	0.9	4.0	ESE	19.7	41	974	0.0
18/06/22 14:00	52.6	71.1	63.8	55.4	41.2	34.6	0.9	4.0	SSE	19.9	44	974	0.0
18/06/22 15:00	51.6	72.1	63.4	53.5	40.2	34.6	0.9	3.6	SSE	18.8	42	974	0.0
18/06/22 16:00	47.7	69.1	60.3	48.2	37.9	32.5	0.0	1.8	WSW	15.8	50	974	0.0
18/06/22 17:00	48.9	79.1	56.8	44.7	36.3	31.4	0.0	1.8	ENE	13.3	61	975	0.0
18/06/22 18:00	39.2	51.4	47.3	41.7	34.3	29.9	0.0	0.9	WSW	12.8	63	976	0.0
18/06/22 19:00	43.0	65.5	50.9	45.6	35.1	25.8	0.0	1.3	WSW	10.7	70	977	0.0
18/06/22 20:00	42.8	54.9	51.2	46.3	34.6	28.3	0.0	0.9	WSW	6.2	74	977	0.0
18/06/22 21:00	45.3	63.0	53.5	47.3	36.9	26.7	0.0	1.8	WSW	9.6	77	978	0.0
18/06/22 22:00	42.0	55.2	50.6	45.1	32.8	23.3	0.0	0.9	ENE	5.4	89	978	0.0
18/06/22 23:00	41.5	62.4	52.8	44.6	28.0	22.6	0.0	0.9	WSW	6.6	88	978	0.0
19/06/22 0:00	40.9	65.2	52.4	42.6	26.3	22.6	0.4	1.3	WSW	2.4	90	978	0.0
19/06/22 1:00	39.3	57.9	49.3	43.4	25.0	21.4	0.4	2.2	S	4.5	93	977	0.0
19/06/22 2:00	45.0	62.1	56.6	48.5	23.4	21.4	0.0	1.3	WSW	5.1	91	977	0.0
19/06/22 3:00	38.5	54.6	49.5	42.2	21.7	19.3	0.0	1.3	S	2.6	91	977	0.0
19/06/22 4:00	44.1	59.9	55.0	47.6	25.5	20.5	0.4	1.8	S	3.2	91	978	0.0
19/06/22 5:00	46.3	59.7	55.6	49.8	35.2	25.1	0.4	1.8	WSW	4.7	95	978	0.0
19/06/22 6:00	62.9	89.9	78.3	57.7	40.6	34.5	0.0	1.3	SSE	2.5	94	978	0.0
19/06/22 7:00	55.8	74.1	65.0	59.2	46.3	36.6	0.4	1.3	SSE	8.5	92	979	0.0
19/06/22 8:00	52.5	73.0	61.0	55.4	43.2	39.1	1.8	3.6	SSE	12.7	81	977	0.0
19/06/22 9:00	50.9	69.7	63.6	51.3	40.7	36.0	0.9	3.6	SSE	17.2	63	977	0.0
19/06/22 10:00	48.6	73.7	59.0	47.7	40.6	35.9	1.3	4.5	SSE	19.0	60	977	0.0
19/06/22 11:00	62.1	83.2	74.5	63.4	42.7	38.3	2.2	6.7	ESE	19.1	56	976	0.0
19/06/22 12:00	49.3	68.1	62.1	49.8	40.9	37.6	2.7	6.7	ESE	20.2	55	974	0.0
19/06/22 13:00	46.1	66.5	53.8	48.1	40.4	36.1	1.8	4.5	ESE	19.0	61	974	0.0
19/06/22 14:00	51.2	71.8	62.9	51.1	41.0	36.5	2.7	5.4	ESE	18.6	60	974	0.0
19/06/22 15:00	52.6	72.8	64.4	54.1	41.4	37.1	2.7	5.4	E	18.8	60	975	0.0
19/06/22 16:00	49.2	72.5	58.9	50.6	42.2	37.8	2.7	5.8	ESE	15.8	66	970	0.0
19/06/22 17:00	47.6	66.3	56.0	49.5	41.8	37.2	0.4	1.3	ESE	13.3	75	975	0.0
19/06/22 18:00	45.4	60.5	54.0	48.1	39.2	34.4	0.4	2.2	S	12.6	79	976	0.0
19/06/22 19:00	41.2	54.9	49.2	43.6	35.4	31.0	0.0	0.9	WSW	12.7	80	976	0.0
19/06/22 20:00	42.3	60.4	52.7	44.7	34.5	27.5	0.4	1.3	WSW	10.7	84	976	0.0
19/06/22 21:00	40.4	50.7	47.9	43.8	32.5	25.8	0.0	0.9	WSW	8.7	87	977	0.0
19/06/22 22:00	40.0	52.6	49.0	43.8	32.4	28.3	0.0	1.3	SSE	7.8	93	977	0.0
19/06/22 23:00	44.3	62.9	53.6	47.2	27.5	22.1	0.4	1.8	SSE	8.8	93	976	0.0
20/06/22 0:00	41.3	57.6	51.3	45.3	24.8	21.9	0.4	2.2	SSE	8.7	92	976	0.0
20/06/22 1:00	42.4	56.2	53.1	47.3	25.1	21.2	0.0	1.8	SSE	8.0	93	975	0.0
20/06/22 2:00	39.6	54.7	50.8	42.5	27.9	22.9	0.0	0.4	SSE	7.2	92	975	0.0
20/06/22 3:00	42.0	58.2	51.8	45.6	29.7	23.8	0.0	1.3	WSW	6.7	93	975	0.0
20/06/22 4:00	42.4	51.7	49.1	45.3	36.7	31.8	0.0	1.3	WSW	7.8	92	975	0.0
20/06/22 5:00	52.2	63.7	59.5	55.6	44.6	40.0	0.0	1.3	WSW	8.1	96	975	0.0
20/06/22 6:00	60.2	81.2	73.2	57.5	47.5	40.8	0.0	0.9	WSW	7.4	91	976	0.0
20/06/22 7:00	57.0	76.6	63.6	59.7	51.5	48.6	0.0	0.9	SSE	8.8	95	976	0.0
20/06/22 8:00	56.6	74.3	69.4	58.2	45.9	41.9	0.4	1.8	SE	12.7	93	977	0.0
20/06/22 9:00	51.5	75.0	62.4	48.0	39.5	34.8	0.9	3.1	SE	15.6	72	976	0.0
20/06/22 10:00	47.5	64.3	59.4	49.0	39.2	34.9	1.3	3.6	SSE	18.1	63	975	0.0

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP2

Address	1670 Toowoomba Cecil Plains Road	**Monitoring Start**	13/06/2022	**Dominant Road**	Toowoomba Cecil Plains Road
Suburb	Biddeston	**Monitoring Finish**	20/06/2022	**Dist. to Road (m)**	211
District	Toowoomba	**Mic. Height (m)**	1.8	**Start Cal. (dB(A))**	94.0
Latitude	-27.545938°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	94.1
Longitude	151.769398°	**Monitor Serial**	11107	**Operator**	LAN
Lot No.	2AG3200	**Measurement**	Free Field	**Sample Interval**	1 hour

Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
53.1	**54.3**	**59.6**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Monday, 13 June 2022	-^	-^	-^
Tuesday, 14 June 2022	51.9	54.0	60.6
Wednesday, 15 June 2022	53.8	55.0	59.5
Thursday, 16 June 2022	54.4	56.2	60.2
Friday, 17 June 2022	52.5	52.2	57.9
Saturday, 18 June 2022	48.5	49.6	53.5
Sunday, 19 June 2022	48.8	50.5	55.6
Monday, 20 June 2022	-^	-^	-^

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos

Attended Measurement Summary

Attended Measurement #1: Monday, 13 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
2:47 PM	3:02 PM	Attended	54.0	27.7	70.4	65.8	58.4	32.6
2:00 PM	3:00 PM	Logger	57.8	29.4	75.0	71.3	58.3	33.4

Comments

Overhead recreational aircraft noise from nearby Wellcamp Airport intermittent throughout measurement. Ambient traffic noise from Toowoomba Cecil Plains Road. Other noises include crickets & distant birds.

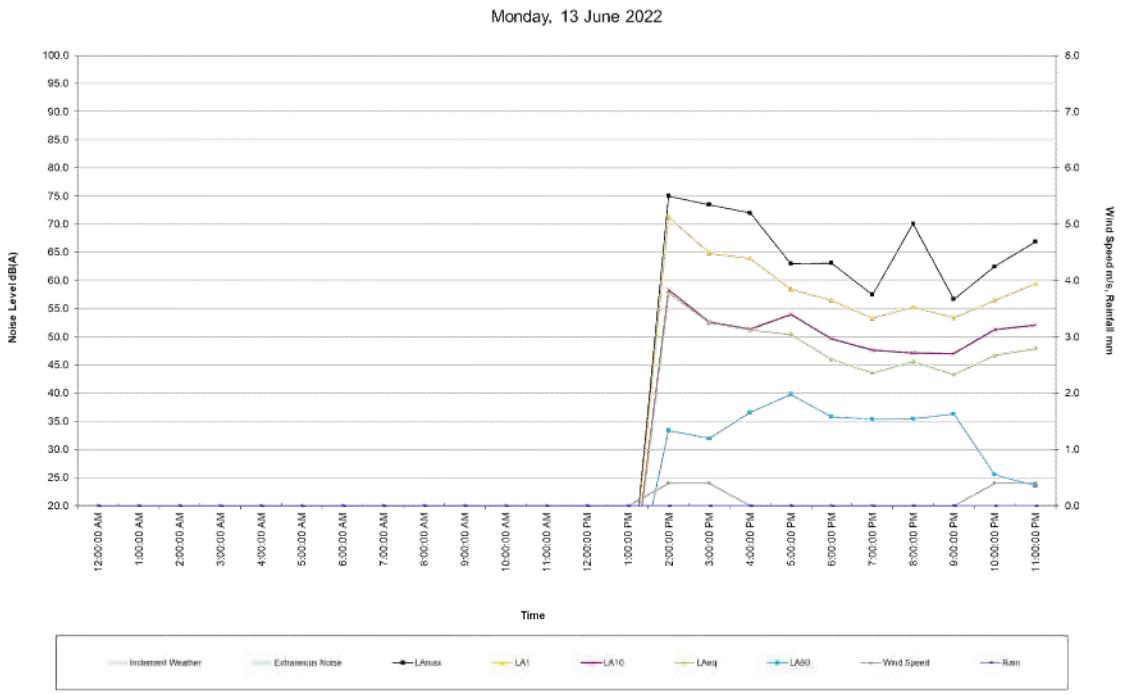
Attended Measurement #2: Monday, 20 June 2022

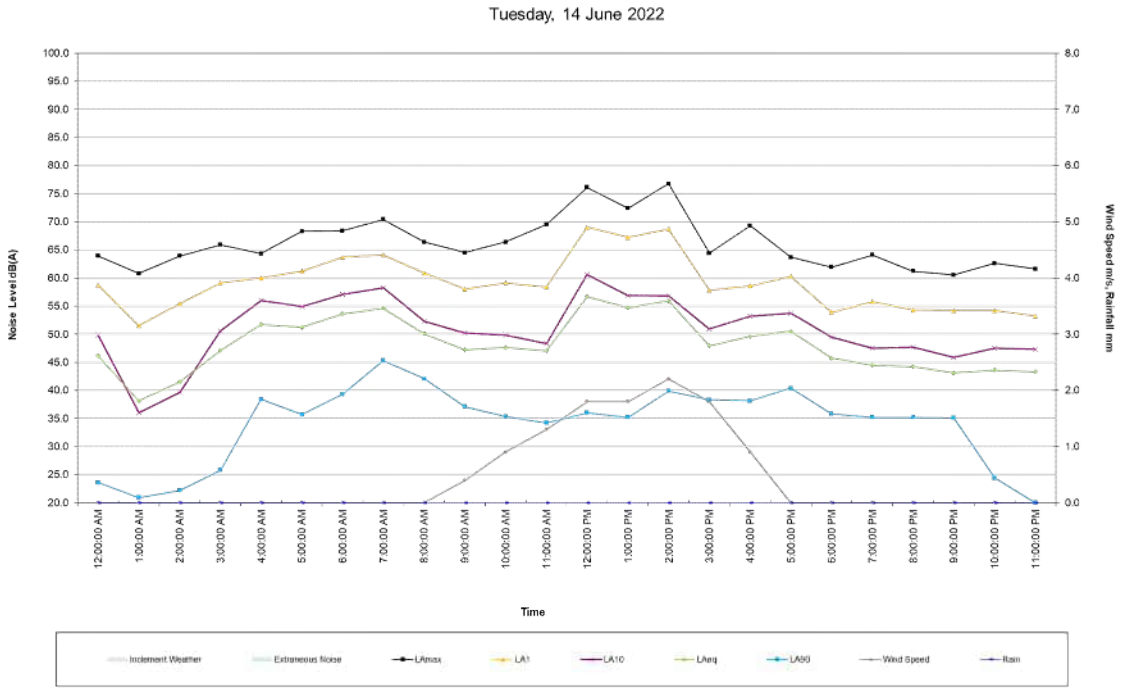
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
11:34 AM	11:49 AM	Attended	41.5	27.0	57.9	52.1	44.2	32.3
11:00 AM	12:00 PM	Logger	44.6	27.7	63.9	55.6	47.5	33.1

Comments

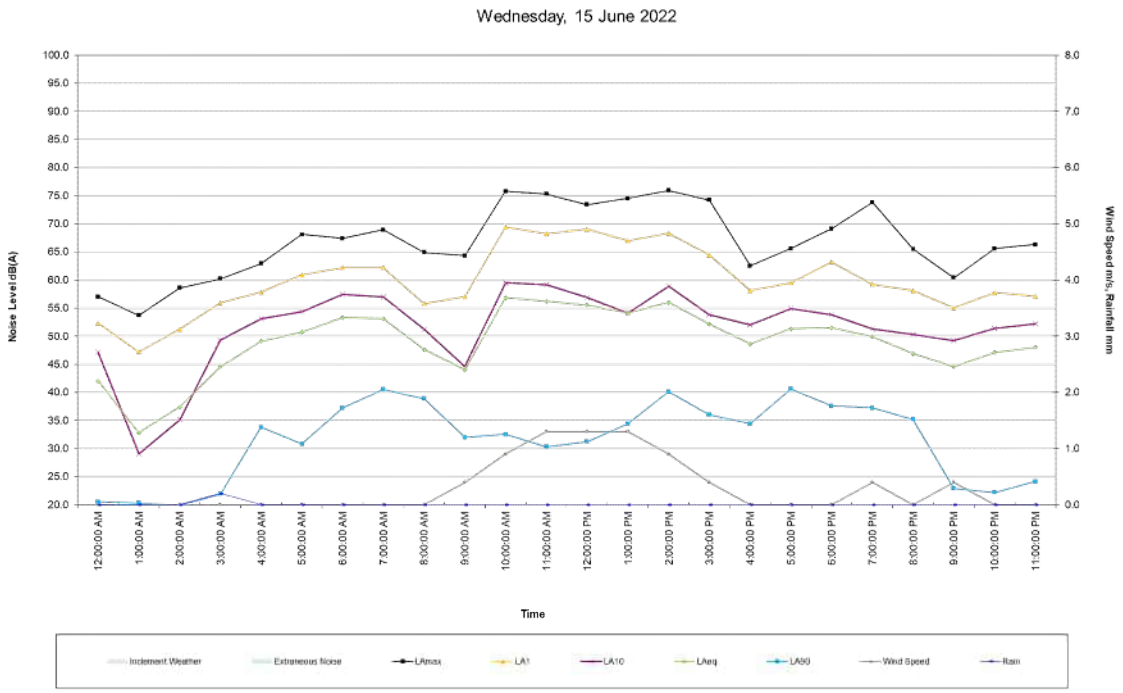
Overhead recreational aircraft noise from nearby Wellcamp Airport intermittent throughout measurement. Traffic noise hum around 30 dBA. Vehicle pass-bys around 40 dBA. Other noises include birds & occasional barks from the dog.

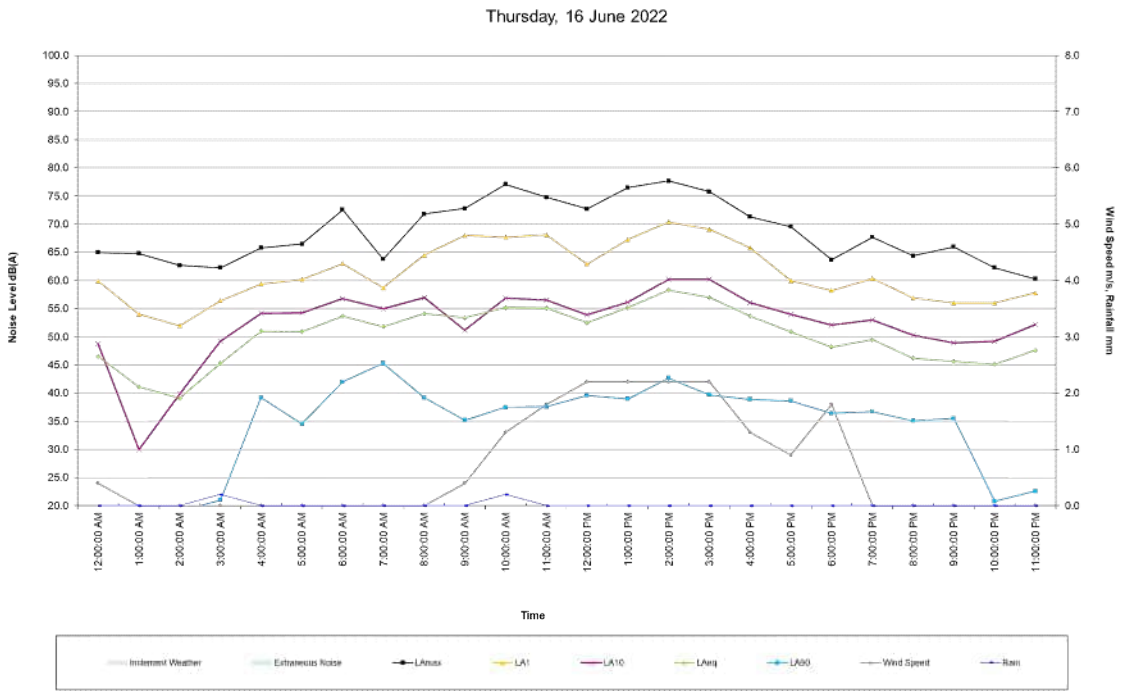
Site Noise and Weather Conditions



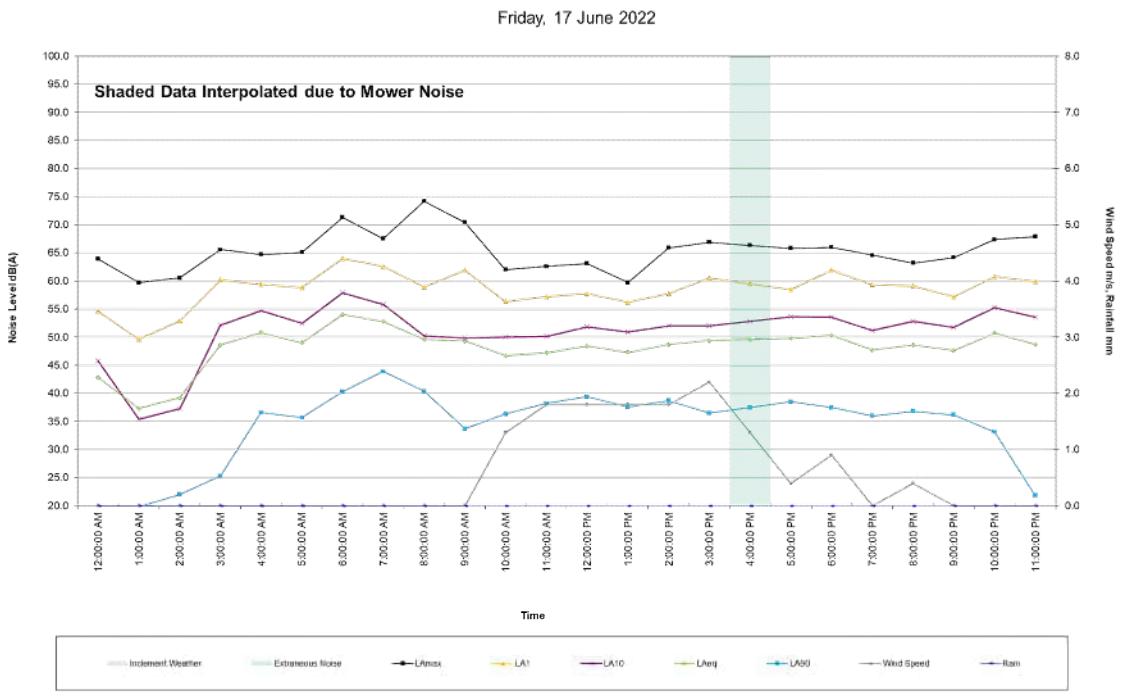


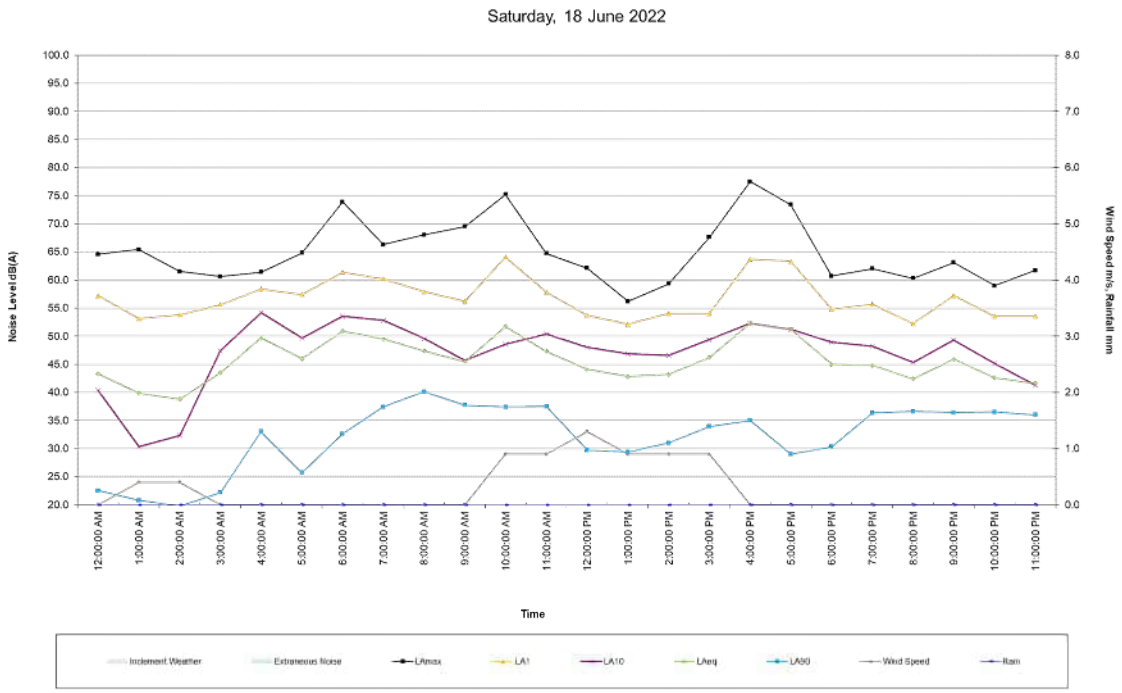
Site Noise and Weather Conditions



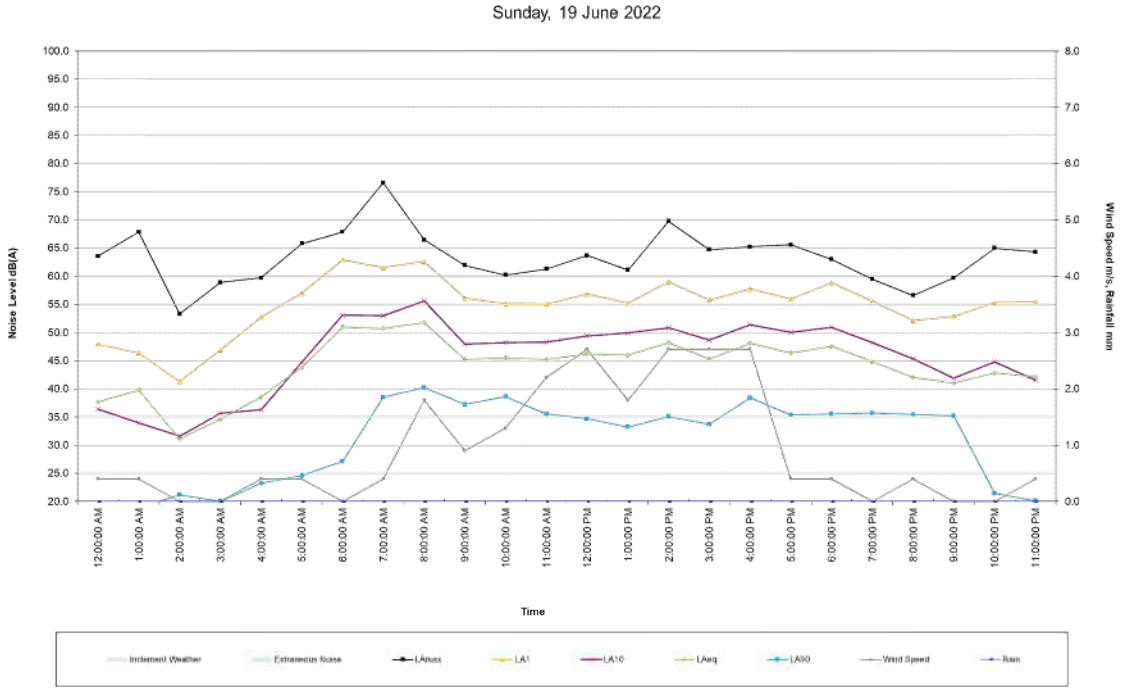


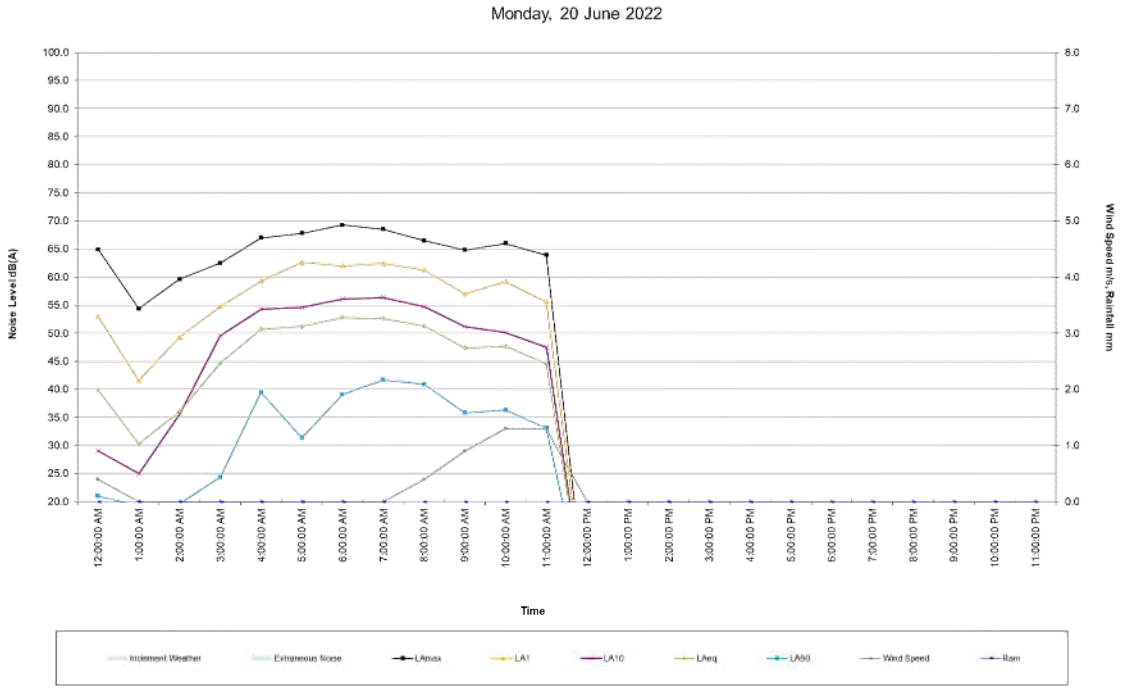
Site Noise and Weather Conditions





Site Noise and Weather Conditions





Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
13/06/22 14:00	57.8	75.0	71.3	58.3	33.4	29.4	0.4	2.2	W	18.6	50	973	0.0
13/06/22 15:00	52.5	73.5	64.9	52.6	32.0	27.3	0.4	2.7	W	18.5	51	973	0.0
13/06/22 16:00	51.2	72.0	63.9	51.4	36.6	28.7	0.0	1.3	W	15.2	64	973	0.0
13/06/22 17:00	50.4	63.0	58.5	54.0	39.8	36.3	0.0	1.3	ESE	13.4	73	974	0.0
13/06/22 18:00	46.0	63.1	56.5	49.7	35.8	34.9	0.0	0.9	SE	12.8	76	976	0.0
13/06/22 19:00	43.6	57.5	53.3	47.7	35.3	34.6	0.0	0.9	ENE	12.5	78	976	0.0
13/06/22 20:00	45.6	70.1	55.3	47.1	35.4	34.6	0.0	0.9	WNW	11.6	81	977	0.0
13/06/22 21:00	43.3	56.7	53.4	47.0	36.3	35.3	0.0	0.9	WNW	8.2	84	977	0.0
13/06/22 22:00	46.7	62.5	56.5	51.3	25.5	21.8	0.4	1.8	WSW	8.4	88	977	0.0
13/06/22 23:00	47.9	66.9	59.5	52.1	23.6	21.5	0.4	1.3	SSE	6.7	89	976	0.0
14/06/22 0:00	46.1	63.9	58.7	49.8	23.6	20.9	0.0	1.3	S	6.8	86	977	0.0
14/06/22 1:00	38.1	60.8	51.5	36.0	20.9	19.5	0.0	0.9	SSE	6.0	87	977	0.0
14/06/22 2:00	41.5	63.9	55.4	39.6	22.2	20.1	0.0	0.9	SSE	5.4	86	976	0.0
14/06/22 3:00	47.1	65.9	59.1	50.6	25.8	22.5	0.0	0.9	SSE	4.2	88	977	0.0
14/06/22 4:00	51.7	64.3	60.0	56.0	38.4	32.1	0.0	0.9	S	3.7	90	977	0.0
14/06/22 5:00	51.2	68.3	61.2	54.9	35.7	29.2	0.0	1.3	S	3.4	93	978	0.0
14/06/22 6:00	53.6	68.4	63.7	57.1	39.3	31.4	0.0	0.9	SSW	4.1	93	978	0.0
14/06/22 7:00	54.6	70.4	64.1	58.2	45.3	41.0	0.0	0.9	SSE	8.7	92	979	0.0
14/06/22 8:00	50.1	66.4	60.9	52.3	42.1	37.7	0.0	0.9	ESE	14.3	81	978	0.0
14/06/22 9:00	47.2	64.5	58.0	50.2	37.1	31.5	0.4	2.7	ESE	17.1	74	978	0.0
14/06/22 10:00	47.6	66.4	59.1	49.8	35.3	27.2	0.9	3.1	ENE	17.4	72	978	0.0
14/06/22 11:00	47.0	69.5	58.4	48.3	34.2	29.6	1.3	4.9	NNE	19.4	63	977	0.0
14/06/22 12:00	56.7	76.1	69.0	60.6	36.0	27.4	1.8	4.5	NW	20.1	59	976	0.0
14/06/22 13:00	54.7	72.4	67.2	56.9	35.2	28.2	1.8	5.4	ENE	20.0	55	972	0.0
14/06/22 14:00	55.9	76.8	68.7	56.8	39.9	33.3	2.2	6.3	E	19.0	65	975	0.0
14/06/22 15:00	47.9	64.4	57.8	50.9	38.3	33.3	1.8	4.5	E	18.3	68	975	0.0
14/06/22 16:00	49.6	69.3	58.6	53.2	38.1	33.8	0.9	3.6	E	15.9	75	974	0.0
14/06/22 17:00	50.5	63.7	60.3	53.7	40.4	36.3	0.0	0.4	E	13.8	84	976	0.0
14/06/22 18:00	45.7	61.9	53.9	49.5	35.8	34.8	0.0	1.3	ENE	13.6	85	977	0.0
14/06/22 19:00	44.5	64.1	55.8	47.5	35.2	34.3	0.0	0.9	SW	13.2	88	977	0.0
14/06/22 20:00	44.2	61.2	54.3	47.7	35.2	34.6	0.0	1.8	WNW	12.6	90	978	0.0
14/06/22 21:00	43.1	60.5	54.2	45.9	35.1	25.4	0.0	1.8	SE	12.3	89	978	0.0
14/06/22 22:00	43.6	62.6	54.2	47.5	24.4	20.3	0.0	0.9	W	12.0	92	978	0.0
14/06/22 23:00	43.3	61.6	53.2	47.3	20.0	18.7	0.0	1.3	ENE	11.8	93	978	0.0
15/06/22 0:00	42.0	57.0	52.3	47.1	20.5	18.8	0.0	0.9	ENE	11.7	93	977	0.0
15/06/22 1:00	32.8	53.7	47.2	29.1	20.3	19.2	0.0	0.9	ENE	11.5	93	977	0.0
15/06/22 2:00	37.4	58.6	51.2	35.1	19.9	18.5	0.0	1.3	ESE	11.0	95	977	0.0
15/06/22 3:00	44.6	60.2	55.9	49.3	21.9	19.4	0.0	0.9	SW	10.8	96	977	0.2
15/06/22 4:00	49.1	62.9	57.8	53.1	33.8	21.9	0.0	1.3	SSW	6.5	92	977	0.0
15/06/22 5:00	50.7	68.1	60.9	54.4	30.8	24.4	0.0	0.4	SW	6.3	96	978	0.0
15/06/22 6:00	53.3	67.4	62.2	57.4	37.2	25.2	0.0	0.9	SW	7.3	97	978	0.0
15/06/22 7:00	53.1	68.9	62.2	57.0	40.5	36.8	0.0	0.4	SW	9.6	97	979	0.0
15/06/22 8:00	47.6	64.9	55.8	51.2	38.9	32.5	0.0	0.4	SE	12.3	96	978	0.0
15/06/22 9:00	44.0	64.3	57.0	44.6	32.0	27.2	0.4	1.8	NNE	15.8	93	978	0.0
15/06/22 10:00	56.8	75.8	69.4	59.5	32.5	24.8	0.9	3.1	NNE	18.4	68	977	0.0
15/06/22 11:00	56.2	75.3	68.2	59.1	30.3	25.1	1.3	3.6	NW	19.4	63	969	0.0
15/06/22 12:00	55.5	73.4	69.0	56.9	31.2	25.9	1.3	4.0	WNW	21.2	50	975	0.0
15/06/22 13:00	54.1	74.5	67.0	54.1	34.4	26.9	1.3	4.0	W	20.5	51	974	0.0
15/06/22 14:00	56.0	75.9	68.3	58.9	40.1	32.5	0.9	3.1	W	21.3	47	974	0.0
15/06/22 15:00	52.1	74.2	64.4	53.8	36.0	29.6	0.4	2.7	WSW	21.7	45	974	0.0
15/06/22 16:00	48.6	62.5	58.1	52.0	34.4	25.8	0.0	0.4	SW	18.3	55	974	0.0
15/06/22 17:00	51.3	65.6	59.5	54.9	40.6	30.1	0.0	0.9	W	14.7	68	974	0.0
15/06/22 18:00	51.5	69.1	63.2	53.8	37.6	34.8	0.0	0.9	W	13.9	71	975	0.0
15/06/22 19:00	49.9	73.8	59.2	51.3	37.2	35.0	0.4	1.3	WSW	13.8	80	976	0.0
15/06/22 20:00	46.9	65.5	58.1	50.3	35.2	34.6	0.0	0.9	SW	11.3	91	976	0.0
15/06/22 21:00	44.6	60.4	55.0	49.2	22.9	20.4	0.4	1.3	WSW	8.2	90	976	0.0
15/06/22 22:00	47.1	65.6	57.7	51.4	22.2	19.6	0.0	0.0	---	8.6	92	976	0.0
15/06/22 23:00	48.0	66.3	57.1	52.2	24.1	19.0	0.0	0.0	---	10.3	96	976	0.0
16/06/22 0:00	46.5	65.0	59.9	48.8	18.9	18.2	0.4	1.3	WSW	10.1	90	976	0.0
16/06/22 1:00	41.1	64.8	54.0	30.0	19.4	18.6	0.0	0.9	SW	6.9	94	976	0.0
16/06/22 2:00	39.1	62.7	52.0	39.9	19.0	18.2	0.0	0.4	SW	8.3	95	975	0.0
16/06/22 3:00	45.3	62.3	56.4	49.2	21.0	18.2	0.0	0.9	SW	8.5	96	975	0.2
16/06/22 4:00	51.0	65.8	59.4	54.2	39.2	26.8	0.0	0.9	SW	5.4	94	975	0.0
16/06/22 5:00	50.9	66.5	60.2	54.3	34.5	25.2	0.0	0.4	WSW	5.7	96	975	0.0
16/06/22 6:00	53.7	72.6	63.0	56.8	42.0	32.1	0.0	0.4	WSW	6.9	96	976	0.0
16/06/22 7:00	51.8	63.8	58.7	55.0	45.3	39.1	0.0	0.4	WSW	8.3	96	976	0.0
16/06/22 8:00	54.1	71.8	64.5	57.0	39.2	33.0	0.0	0.4	SW	11.7	96	976	0.0
16/06/22 9:00	53.4	72.8	68.0	51.2	35.2	28.4	0.4	2.2	NW	15.1	93	975	0.0
16/06/22 10:00	55.2	77.1	67.7	56.9	37.5	29.7	1.3	4.0	WNW	18.3	68	974	0.2
16/06/22 11:00	55.1	74.8	68.1	56.5	37.6	31.7	1.8	5.4	W	19.6	57	973	0.0
16/06/22 12:00	52.5	72.7	62.9	53.9	39.6	32.2	2.2	6.7	W	19.9	51	972	0.0
16/06/22 13:00	55.2	76.5	67.3	56.2	39.0	32.1	2.2	5.8	WSW	20.9	49	972	0.0
16/06/22 14:00	58.3	77.7	70.4	60.2	42.7	35.1	2.2	6.3	WSW	20.9	45	971	0.0
16/06/22 15:00	57.0	75.8	69.1	60.2	39.7	33.7	2.2	5.4	WSW	19.9	42	972	0.0
16/06/22 16:00	53.7	71.3	65.8	56.1	38.9	28.5	1.3	4.0	WSW	16.9	50	971	0.0
16/06/22 17:00	50.9	69.6	60.0	54.0	38.6	35.4	0.9	2.7	WSW	14.6	55	973	0.0
16/06/22 18:00	48.2	63.7	58.2	52.1	36.4	35.2	1.8	3.1	WSW	13.3	58	973	0.0
16/06/22 19:00	49.5	67.7	60.4	53.0	36.7	34.7	0.0	0.4	WSW	8.5	74	974	0.0
16/06/22 20:00	46.2	64.4	56.9	50.3	35.1	34.3	0.0	0.4	WSW	6.9	78	975	0.0
16/06/22 21:00	45.6	66.0	56.0	48.9	35.5	34.7	0.0	0.4	S	7.4	75	975	0.0
16/06/22 22:00	45.1	62.3	56.0	49.2	20.8	17.9	0.0	0.9	S	6.7	72	975	0.0
16/06/22 23:00	47.6	60.3	57.8	52.2	22.6	19.2	0.0	0.4	WSW	5.9	81	975	0.0
17/06/22 0:00	42.8	63.9	54.6	45.8	19.1	17.4	0.0	0.4	WSW	3.5	78	975	0.0
17/06/22 1:00	37.3	59.7	49.6	35.4	19.8	18.4	0.0	0.4	WSW	3.1	86	975	0.0
17/06/22 2:00	39.2	60.5	52.9	37.3	22.0	19.7	0.0	0.9	WSW	5.4	81	974	0.0
17/06/22 3:00	48.6	65.6	60.2	52.1	25.3	20.6	0.0	0.0	---	2.1	91	974	0.0
17/06/22 4:00	50.8	64.7	59.4	54.7	36.6	27.3	0.0	0.4	WSW	1.6	90	975	0.0
17/06/22 5:00	49.0	65.1	58.8	52.5	35.7	28.6	0.0	0.4	WSW	2.9	87	975	0.0
17/06/22 6:00	54.0	71.3	64.0	57.9	40.3	32.1	0.0	0.4	WSW	0.8	88	976	0.0
17/06/22 7:00	52.8	67.5	62.6	55.8	43.9	39.1	0.0	0.4	WSW	5.9	84	976	0.0
17/06/22 8:00	49.6	74.2	58.9	50.2	40.4	35.5	0.0	0.4	SE	12.1	72	975	0.0
17/06/22 9:00	49.3	70.4	61.9	49.8	33.7	29.6	0.0	1.3	W	16.9	58	974	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
17/06/22 10:00	46.7	62.0	56.3	50.0	36.3	27.1	1.3	5.8	WSW	17.7	45	974	0.0
17/06/22 11:00	47.2	62.6	57.2	50.1	38.2	29.8	1.8	4.9	WSW	18.4	45	973	0.0
17/06/22 12:00	48.4	63.1	57.7	51.8	39.4	28.3	1.8	5.4	WSW	18.7	38	972	0.0
17/06/22 13:00	47.3	59.7	56.2	50.9	37.6	26.7	1.8	4.9	WSW	19.3	38	972	0.0
17/06/22 14:00	48.7	65.9	57.7	52.0	38.7	33.0	1.8	5.8	WSW	19.1	39	971	0.0
17/06/22 15:00	49.4	66.9	60.5	52.0	36.5	29.6	2.2	4.9	WSW	18.1	43	972	0.0
17/06/22 16:00	49.6	66.4	59.5	52.8	37.5	32.3	1.3	4.0	WSW	15.1	53	972	0.0
17/06/22 17:00	49.8	65.8	58.5	53.6	38.5	34.9	0.4	1.8	WSW	13.3	60	974	0.0
17/06/22 18:00	50.3	66.0	61.9	53.5	37.5	36.2	0.9	1.8	W	9.5	70	974	0.0
17/06/22 19:00	47.7	64.6	59.3	51.2	36.0	35.1	0.0	0.9	SSE	7.6	79	975	0.0
17/06/22 20:00	48.6	63.2	59.1	52.8	36.8	36.3	0.4	2.2	WSW	5.3	86	975	0.0
17/06/22 21:00	47.6	64.2	57.2	51.7	36.2	35.7	0.0	0.4	WSW	4.6	85	976	0.0
17/06/22 22:00	50.7	67.4	60.8	55.3	33.1	20.7	0.0	0.9	SSE	4.0	90	976	0.0
17/06/22 23:00	48.7	67.9	59.9	53.5	21.8	19.5	0.0	0.4	SW	5.5	93	976	0.0
18/06/22 0:00	43.3	64.6	57.2	40.4	22.5	20.2	0.0	1.3	SSE	4.5	90	976	0.0
18/06/22 1:00	39.9	65.4	53.1	30.3	20.8	19.1	0.4	1.3	S	4.7	90	976	0.0
18/06/22 2:00	38.8	61.5	53.8	32.3	19.7	18.5	0.4	1.8	SSE	4.6	92	976	0.0
18/06/22 3:00	43.5	60.6	55.6	47.4	22.2	18.4	0.0	0.9	S	3.7	90	976	0.0
18/06/22 4:00	49.7	61.4	58.4	54.2	33.0	22.4	0.0	0.4	SW	1.9	92	976	0.0
18/06/22 5:00	46.0	64.8	57.4	49.7	25.7	20.6	0.0	0.4	WSW	2.9	95	977	0.0
18/06/22 6:00	50.9	73.9	61.4	53.5	32.6	26.2	0.0	1.3	WSW	0.8	93	977	0.0
18/06/22 7:00	49.5	66.3	60.2	52.8	37.4	27.4	0.0	0.4	WSW	5.8	93	978	0.0
18/06/22 8:00	47.4	68.0	57.9	49.6	40.1	37.4	0.0	0.4	ESE	10.9	83	977	0.0
18/06/22 9:00	45.5	69.5	56.2	45.7	37.7	36.5	0.0	1.8	N	14.2	72	976	0.0
18/06/22 10:00	51.7	75.2	64.1	48.6	37.4	36.0	0.9	4.0	WSW	17.1	56	976	0.0
18/06/22 11:00	47.3	64.7	57.8	50.4	37.5	30.3	0.9	3.1	SSE	18.7	50	975	0.0
18/06/22 12:00	44.1	62.1	53.7	48.0	29.7	24.2	1.3	3.6	SSE	18.4	48	974	0.0
18/06/22 13:00	42.8	56.2	52.1	46.9	29.4	23.7	0.9	4.0	ESE	19.7	41	974	0.0
18/06/22 14:00	43.2	59.3	54.0	46.6	31.0	26.4	0.9	4.0	SSE	19.9	44	974	0.0
18/06/22 15:00	46.2	67.6	54.0	49.4	33.9	28.9	0.9	3.6	SSE	18.8	42	974	0.0
18/06/22 16:00	52.3	77.5	63.7	52.3	35.0	27.8	0.0	1.8	WSW	15.8	50	974	0.0
18/06/22 17:00	51.2	73.4	63.3	51.2	29.0	22.7	0.0	1.8	ENE	13.3	61	975	0.0
18/06/22 18:00	45.0	60.7	54.8	48.9	30.3	21.7	0.0	0.9	WSW	12.8	63	976	0.0
18/06/22 19:00	44.8	62.0	55.7	48.2	36.3	35.8	0.0	1.3	WSW	10.7	70	977	0.0
18/06/22 20:00	42.4	60.3	52.2	45.3	36.6	35.9	0.0	0.9	WSW	6.2	74	977	0.0
18/06/22 21:00	45.9	63.1	57.2	49.3	36.4	36.0	0.0	1.8	WSW	9.6	77	978	0.0
18/06/22 22:00	42.6	59.0	53.5	45.1	36.5	35.9	0.0	0.9	ENE	5.4	89	978	0.0
18/06/22 23:00	41.6	61.7	53.5	41.3	36.0	35.7	0.0	0.9	WSW	6.6	88	978	0.0
19/06/22 0:00	37.7	63.6	47.9	36.4	19.4	18.2	0.4	1.3	WSW	2.4	90	978	0.0
19/06/22 1:00	39.8	67.9	46.4	33.9	18.8	17.8	0.4	2.2	S	4.5	93	977	0.0
19/06/22 2:00	31.1	53.3	41.3	31.6	21.2	19.3	0.0	1.3	WSW	5.1	91	977	0.0
19/06/22 3:00	34.6	58.9	46.9	35.7	20.0	18.9	0.0	1.3	S	2.6	91	977	0.0
19/06/22 4:00	38.5	59.7	52.7	36.3	23.2	21.9	0.4	1.8	S	3.2	91	978	0.0
19/06/22 5:00	43.8	65.8	57.0	44.8	24.6	21.9	0.4	1.8	WSW	4.7	95	978	0.0
19/06/22 6:00	51.0	67.9	62.9	53.1	27.1	23.0	0.0	1.3	SSE	2.5	94	978	0.0
19/06/22 7:00	50.7	76.6	61.5	53.0	38.5	28.7	0.4	1.3	SSE	8.5	92	979	0.0
19/06/22 8:00	51.8	66.5	62.6	55.6	40.2	37.3	1.8	3.6	SSE	12.7	81	977	0.0
19/06/22 9:00	45.2	61.9	56.1	47.9	37.2	36.2	0.9	3.6	SSE	17.2	63	977	0.0
19/06/22 10:00	45.5	60.2	55.1	48.2	38.6	35.8	1.3	4.5	SSE	19.0	60	977	0.0
19/06/22 11:00	45.2	61.3	55.0	48.3	35.5	28.3	2.2	6.7	ESE	19.1	56	976	0.0
19/06/22 12:00	46.2	63.7	56.8	49.4	34.7	26.9	2.7	6.7	ESE	20.2	55	974	0.0
19/06/22 13:00	46.0	61.1	55.2	49.9	33.2	27.5	1.8	4.5	ESE	19.0	61	974	0.0
19/06/22 14:00	48.2	69.8	59.0	50.8	35.1	28.5	2.7	5.4	ESE	18.6	60	974	0.0
19/06/22 15:00	45.3	64.7	55.8	48.7	33.7	25.2	2.7	5.4	E	18.8	60	975	0.0
19/06/22 16:00	48.1	65.2	57.7	51.4	38.4	35.4	2.7	5.8	ESE	15.8	66	970	0.0
19/06/22 17:00	46.4	65.6	55.9	50.0	35.3	34.6	0.4	1.3	ESE	13.3	75	975	0.0
19/06/22 18:00	47.5	63.0	58.8	50.9	35.5	34.7	0.4	2.2	S	12.6	79	976	0.0
19/06/22 19:00	44.8	59.5	55.6	48.2	35.7	35.0	0.0	0.9	WSW	12.7	80	976	0.0
19/06/22 20:00	42.0	56.6	52.1	45.3	35.4	35.0	0.4	1.3	WSW	10.7	84	976	0.0
19/06/22 21:00	41.0	59.7	52.9	41.9	35.2	34.8	0.0	0.9	WSW	8.7	87	977	0.0
19/06/22 22:00	42.8	65.0	55.3	44.8	21.4	19.1	0.0	1.3	SSE	7.8	93	977	0.0
19/06/22 23:00	42.1	64.3	55.4	41.5	20.1	18.9	0.4	1.8	SSE	8.8	93	976	0.0
20/06/22 0:00	39.9	64.9	53.0	29.1	21.0	19.9	0.4	2.2	SSE	8.7	92	976	0.0
20/06/22 1:00	30.3	54.4	41.6	25.0	19.3	18.7	0.0	1.8	SSE	8.0	93	975	0.0
20/06/22 2:00	36.1	59.6	49.3	35.7	19.6	18.8	0.0	0.4	SSE	7.2	92	975	0.0
20/06/22 3:00	44.7	62.5	54.8	49.6	24.4	20.8	0.0	1.3	WSW	6.7	93	975	0.0
20/06/22 4:00	50.7	67.0	59.3	54.3	39.5	26.7	0.0	1.3	WSW	7.8	92	975	0.0
20/06/22 5:00	51.2	67.8	62.6	54.6	31.4	26.0	0.0	1.3	WSW	8.1	96	975	0.0
20/06/22 6:00	52.8	69.3	62.0	56.1	39.1	30.2	0.0	0.9	WSW	7.4	91	976	0.0
20/06/22 7:00	52.6	68.5	62.4	56.3	41.7	37.5	0.0	0.9	SSE	8.8	95	976	0.0
20/06/22 8:00	51.3	66.5	61.3	54.7	40.9	36.8	0.4	1.8	SE	12.7	93	977	0.0
20/06/22 9:00	47.4	64.8	57.0	51.2	35.8	30.5	0.9	3.1	SE	15.6	72	976	0.0
20/06/22 10:00	47.7	66.0	59.2	50.1	36.3	30.6	1.3	3.6	SSE	18.1	63	975	0.0
20/06/22 11:00	44.6	63.9	55.6	47.5	33.1	27.7	1.3	3.6	SSE	18.1	63	975	0.0

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP3

Address	2347 Gore Highway, Southbrook	**Monitoring Start**	13/06/2022	**Dominant Road**	Gore Highway
Suburb	Southbrook	**Monitoring Finish**	20/06/2022	**Dist. to Road (m)**	87
District	Toowoomba	**Mic. Height (m)**	1.8	**Start Cal. (dB(A))**	94.0
Latitude	-27.645786°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	93.9
Longitude	151.731469°	**Monitor Serial**	11098	**Operator**	LAN
Lot No.	31SP119042	**Measurement**	Free Field	**Sample Interval**	1 hour

Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
58.9	**58.4**	**63.1**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Monday, 13 June 2022	-^	-^	-^
Tuesday, 14 June 2022	58.7	58.2	62.4
Wednesday, 15 June 2022	59.5	58.7	63.0
Thursday, 16 June 2022	59.2	58.0	63.0
Friday, 17 June 2022	58.4	58.8	63.9
Saturday, 18 June 2022	56.2	54.6	60.5
Sunday, 19 June 2022	54.0	53.1	59.2
Monday, 20 June 2022	-^	-^	-^

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos

Attended Measurement Summary

Attended Measurement #1: Monday, 13 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
4:45 PM	5:00 PM	Attended	60.2	46.9	80.3	68.4	62.7	51.7
4:00 PM	5:00 PM	Logger	60.5	47.7	78.0	68.3	62.9	51.8

Comments

Traffic noise on Gore Highway is the dominant noise source. One ute passby on the property noted.

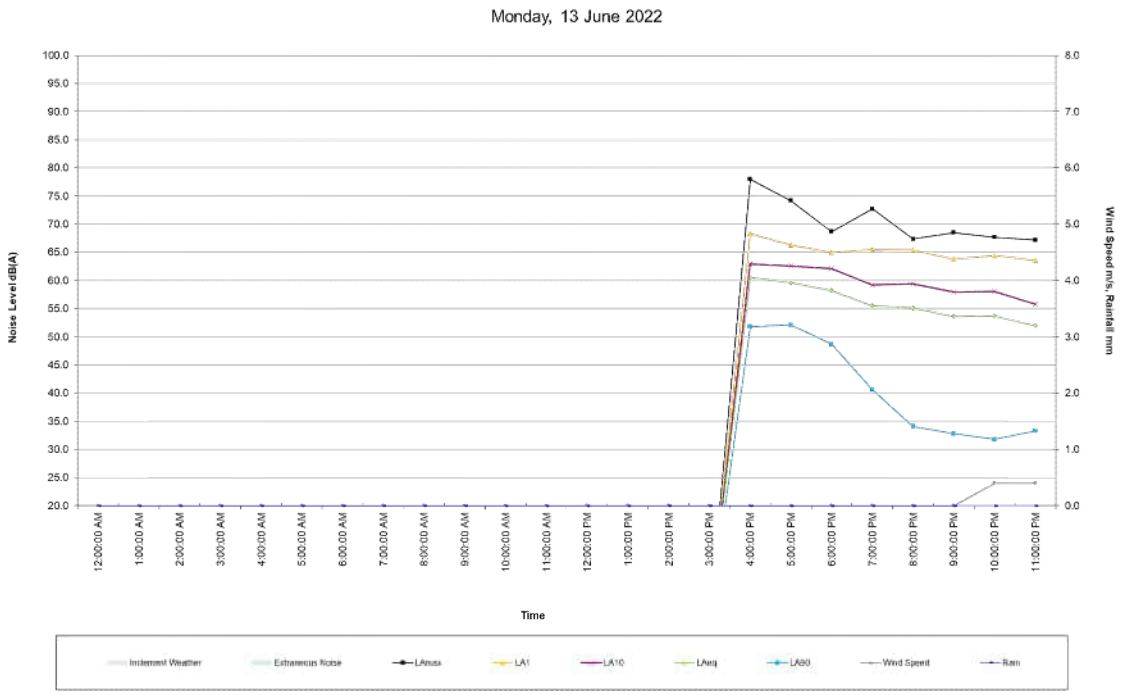
Attended Measurement #2: Monday, 20 June 2022

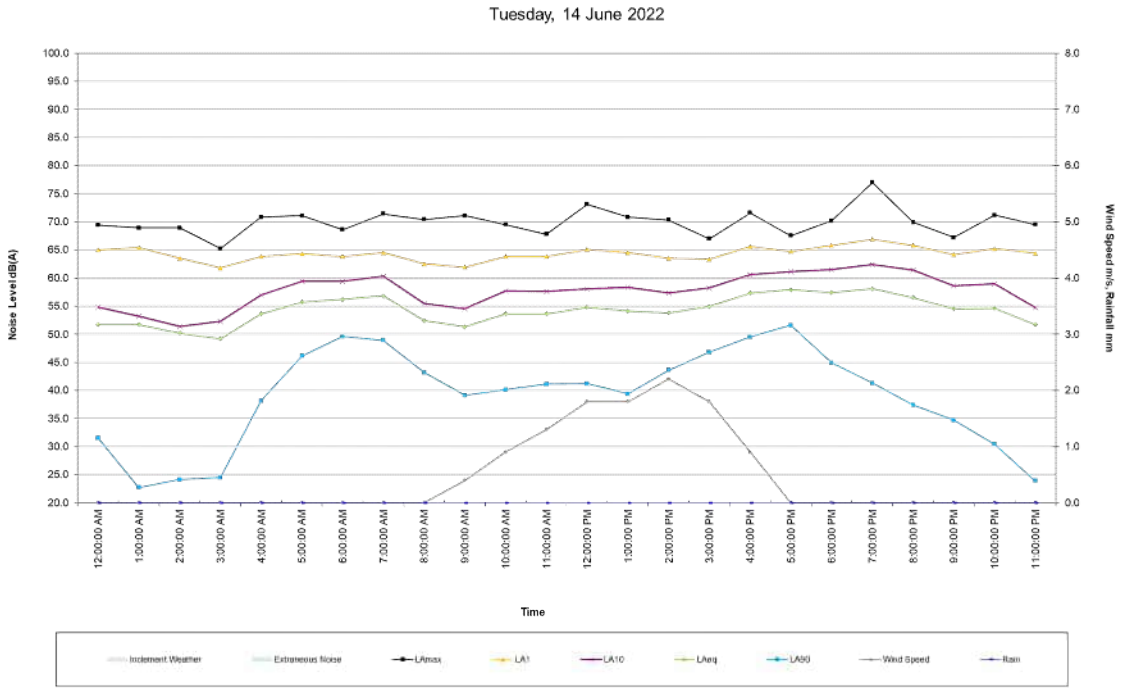
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
12:31 PM	12:46 PM	Attended	51.8	30.5	67.8	62.6	55.8	37.6
12:00 PM	1:00 PM	Logger	52.1	32.0	69.8	62.5	56.0	39.2

Comments

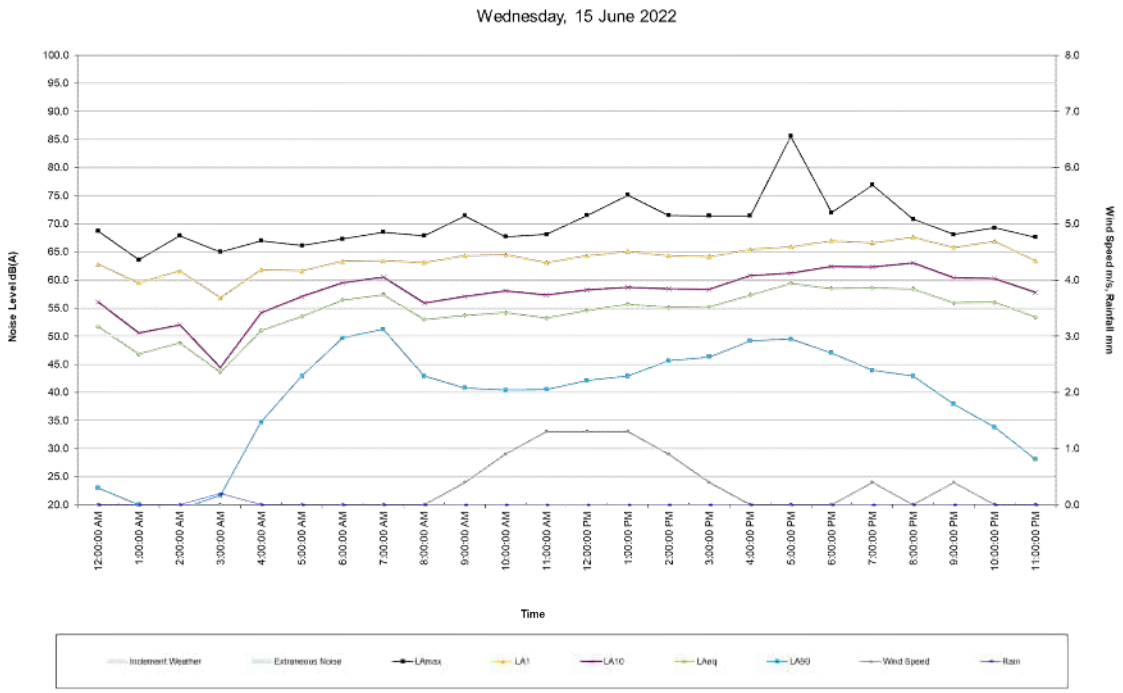
Traffic noise on Gore Highway is the dominant noise source. Other noises include: overhead recreational aircraft, bird noise and a ute passby on the property.

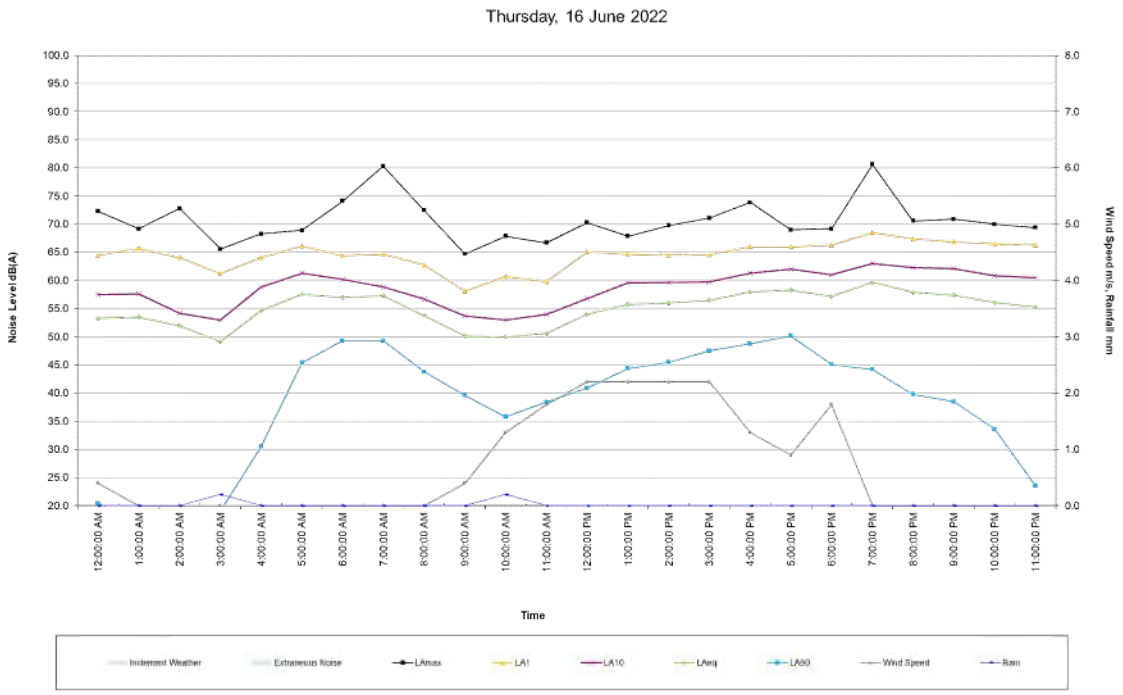
Site Noise and Weather Conditions



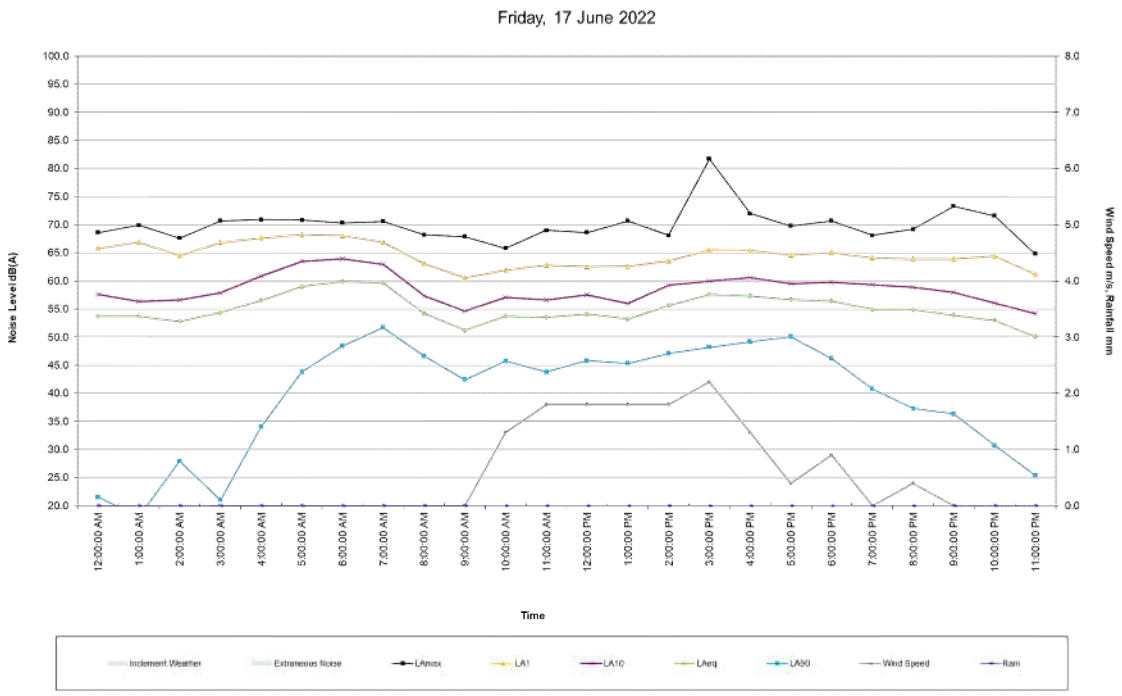


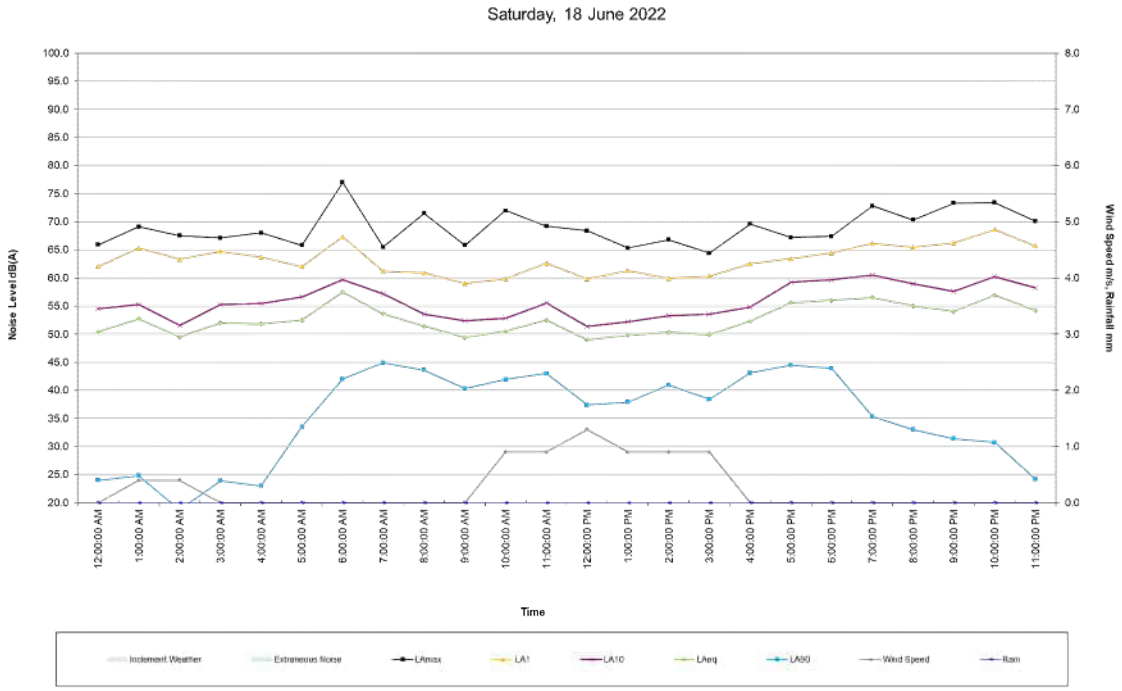
Site Noise and Weather Conditions



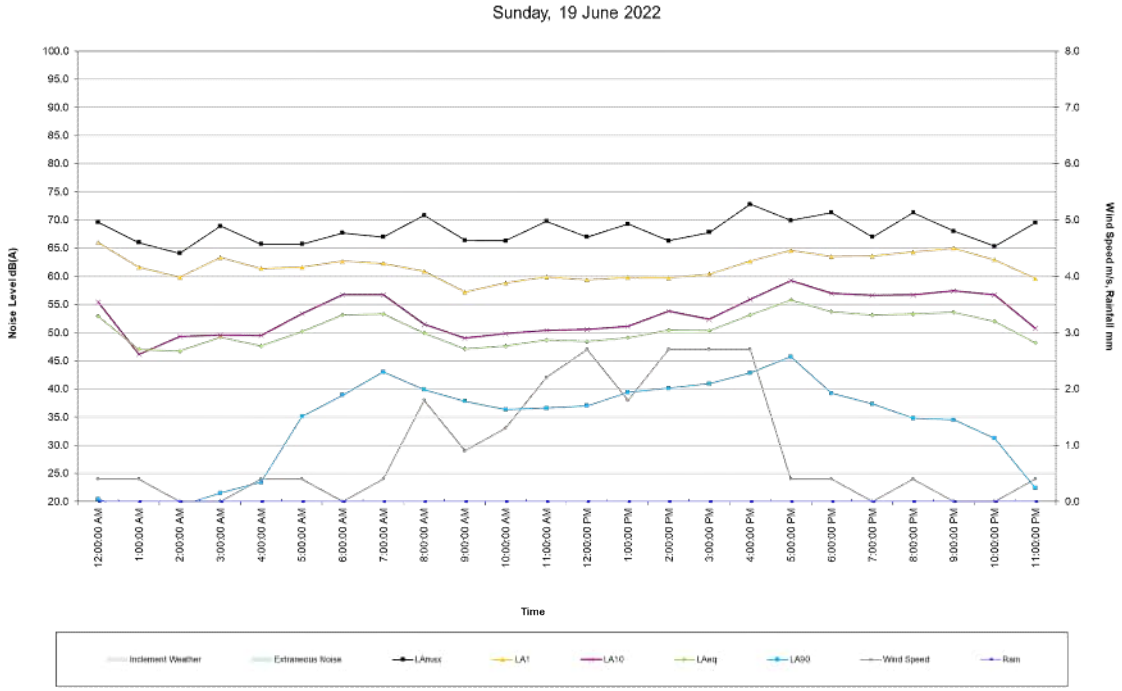


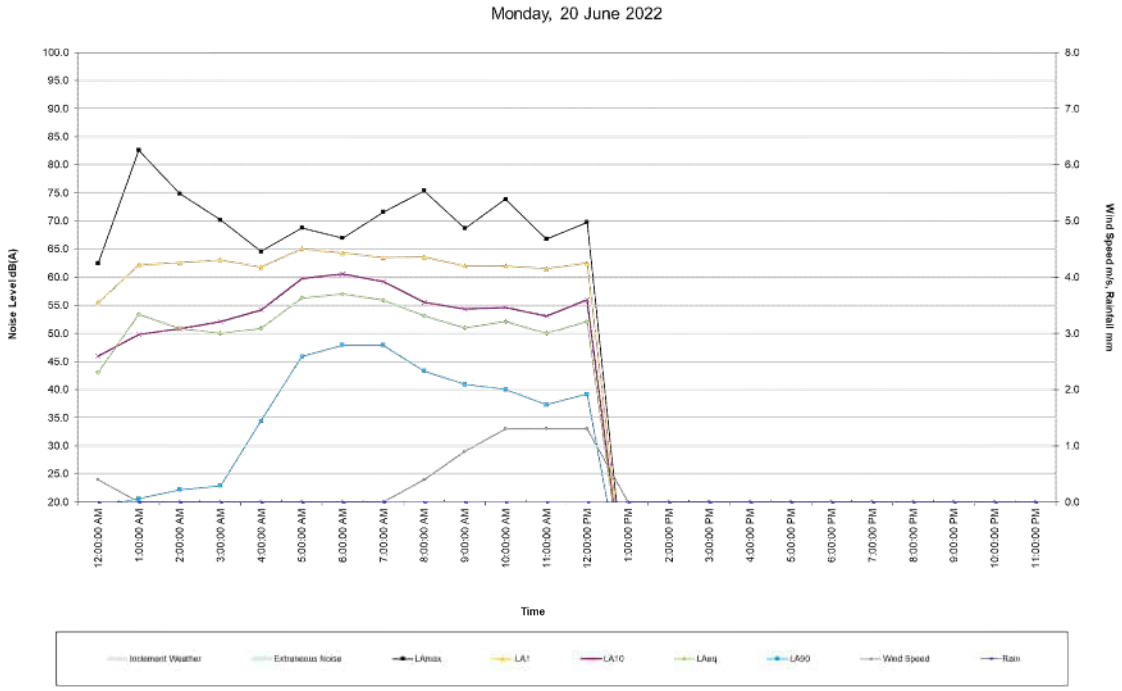
Site Noise and Weather Conditions





Site Noise and Weather Conditions





Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
13/06/22 16:00	60.5	78.0	68.3	62.9	51.8	47.7	0.0	1.3	W	15.2	64	973	0.0
13/06/22 17:00	59.6	74.2	66.3	62.6	52.1	43.1	0.0	1.3	ESE	13.4	73	974	0.0
13/06/22 18:00	58.2	68.7	65.0	62.1	48.7	39.5	0.0	0.9	SE	12.8	76	976	0.0
13/06/22 19:00	55.5	72.7	65.5	59.2	40.6	27.7	0.0	0.9	ENE	12.5	78	976	0.0
13/06/22 20:00	55.1	67.4	65.4	59.4	34.1	27.7	0.0	0.9	WNW	11.6	81	977	0.0
13/06/22 21:00	53.6	68.5	63.8	58.0	32.8	26.5	0.0	0.9	WNW	8.2	84	977	0.0
13/06/22 22:00	53.7	67.7	64.4	58.1	31.8	26.5	0.4	1.8	WSW	8.4	88	977	0.0
13/06/22 23:00	52.0	67.2	63.6	55.8	33.3	27.4	0.4	1.3	SSE	6.7	89	976	0.0
14/06/22 0:00	51.7	69.4	65.0	54.8	31.5	24.1	0.0	1.3	S	6.8	86	977	0.0
14/06/22 1:00	51.7	68.9	65.4	53.2	22.7	18.9	0.0	0.9	SSE	6.0	87	977	0.0
14/06/22 2:00	50.2	68.9	63.5	51.4	24.1	19.2	0.0	0.9	SSE	5.4	86	976	0.0
14/06/22 3:00	49.2	65.2	61.8	52.3	24.5	20.8	0.0	0.9	SSE	4.2	88	977	0.0
14/06/22 4:00	53.6	70.8	63.8	57.0	38.1	26.0	0.0	0.9	S	3.7	90	977	0.0
14/06/22 5:00	55.7	71.1	64.3	59.4	46.1	35.5	0.0	1.3	S	3.4	93	978	0.0
14/06/22 6:00	56.2	68.6	63.8	59.4	49.6	43.0	0.0	0.9	SSW	4.1	93	978	0.0
14/06/22 7:00	56.8	71.4	64.5	60.3	48.9	41.4	0.0	0.9	SSE	8.7	92	979	0.0
14/06/22 8:00	52.4	70.4	62.5	55.4	43.2	35.8	0.0	0.9	ESE	14.3	81	978	0.0
14/06/22 9:00	51.3	71.1	61.9	54.5	39.1	33.6	0.4	2.7	ESE	17.1	74	978	0.0
14/06/22 10:00	53.6	69.5	63.8	57.7	40.1	33.2	0.9	3.1	ENE	17.4	72	978	0.0
14/06/22 11:00	53.6	67.8	63.8	57.6	41.1	31.4	1.3	4.9	NNE	19.4	63	977	0.0
14/06/22 12:00	54.8	73.1	65.1	58.1	41.2	32.7	1.8	4.5	NW	20.1	59	976	0.0
14/06/22 13:00	54.1	70.8	64.5	58.3	39.4	30.7	1.8	5.4	ENE	20.0	55	972	0.0
14/06/22 14:00	53.8	70.3	63.5	57.3	43.6	37.2	2.2	6.3	E	19.0	65	975	0.0
14/06/22 15:00	54.9	67.0	63.3	58.2	46.8	32.1	1.8	4.5	E	18.3	68	975	0.0
14/06/22 16:00	57.3	71.6	65.6	60.6	49.5	39.9	0.9	3.6	E	15.9	75	974	0.0
14/06/22 17:00	57.9	67.5	64.7	61.1	51.6	41.7	0.0	0.4	E	13.8	84	976	0.0
14/06/22 18:00	57.4	70.2	65.8	61.5	44.9	33.2	0.0	1.3	ENE	13.6	85	977	0.0
14/06/22 19:00	58.1	77.0	66.9	62.4	41.3	31.6	0.0	0.9	SW	13.2	88	977	0.0
14/06/22 20:00	56.5	69.9	65.8	61.4	37.4	27.0	0.0	1.8	WNW	12.6	90	978	0.0
14/06/22 21:00	54.5	67.2	64.2	58.6	34.7	22.6	0.0	1.8	SE	12.3	89	978	0.0
14/06/22 22:00	54.6	71.2	65.2	59.0	30.4	20.8	0.0	0.9	W	12.0	92	978	0.0
14/06/22 23:00	51.7	69.5	64.4	54.7	23.9	21.2	0.0	1.3	ENE	11.8	93	978	0.0
15/06/22 0:00	51.7	68.7	62.8	56.1	23.0	19.2	0.0	0.9	ENE	11.7	93	977	0.0
15/06/22 1:00	46.8	63.6	59.5	50.6	20.0	18.5	0.0	0.9	ENE	11.5	93	977	0.0
15/06/22 2:00	48.8	67.9	61.6	52.0	19.2	17.8	0.0	1.3	ESE	11.0	95	977	0.0
15/06/22 3:00	43.6	65.0	56.8	44.4	21.7	18.4	0.0	0.9	SW	10.8	96	977	0.2
15/06/22 4:00	51.0	67.0	61.8	54.2	34.7	21.5	0.0	1.3	SSW	6.5	92	977	0.0
15/06/22 5:00	53.5	66.1	61.6	57.1	42.9	30.5	0.0	0.4	SW	6.3	96	978	0.0
15/06/22 6:00	56.4	67.3	63.3	59.5	49.7	40.5	0.0	0.9	SW	7.3	97	978	0.0
15/06/22 7:00	57.4	68.5	63.4	60.5	51.2	41.6	0.0	0.4	SW	9.6	97	979	0.0
15/06/22 8:00	53.0	67.9	63.1	55.9	42.9	36.7	0.0	0.4	SE	12.3	96	978	0.0
15/06/22 9:00	53.7	71.4	64.3	57.1	40.8	35.1	0.4	1.8	NNE	15.8	93	978	0.0
15/06/22 10:00	54.2	67.7	64.5	58.1	40.4	31.2	0.9	3.1	NNE	18.4	68	977	0.0
15/06/22 11:00	53.2	68.1	63.1	57.3	40.5	31.0	1.3	3.6	NW	19.4	63	969	0.0
15/06/22 12:00	54.6	71.5	64.3	58.2	42.1	29.6	1.3	4.0	WNW	21.2	50	975	0.0
15/06/22 13:00	55.7	75.1	65.1	58.7	42.9	29.2	1.3	4.0	W	20.5	51	974	0.0
15/06/22 14:00	55.1	71.5	64.3	58.4	45.6	35.8	0.9	3.1	W	21.3	47	974	0.0
15/06/22 15:00	55.2	71.4	64.2	58.3	46.3	37.8	0.4	2.7	WSW	21.7	45	974	0.0
15/06/22 16:00	57.3	71.4	65.4	60.8	49.2	40.0	0.0	0.4	SW	18.3	55	974	0.0
15/06/22 17:00	59.4	85.6	65.9	61.2	49.5	37.9	0.0	0.9	W	14.7	68	974	0.0
15/06/22 18:00	58.5	72.0	67.0	62.4	47.0	25.7	0.0	0.9	W	13.9	71	975	0.0
15/06/22 19:00	58.6	76.9	66.6	62.3	43.9	32.3	0.4	1.3	WSW	13.8	80	976	0.0
15/06/22 20:00	58.4	70.8	67.6	63.0	42.9	31.4	0.0	0.9	SW	11.3	91	976	0.0
15/06/22 21:00	55.9	68.1	65.8	60.4	37.9	31.4	0.4	1.3	WSW	8.2	90	976	0.0
15/06/22 22:00	56.0	69.3	66.9	60.2	33.8	21.5	0.0	0.0	---	8.6	92	976	0.0
15/06/22 23:00	53.4	67.6	63.4	57.8	28.1	20.3	0.0	0.0	---	10.3	96	976	0.0
16/06/22 0:00	53.3	72.3	64.5	57.5	20.4	17.8	0.4	1.3	WSW	10.1	90	976	0.0
16/06/22 1:00	53.5	69.2	65.7	57.6	17.2	16.6	0.0	0.9	SW	6.9	94	976	0.0
16/06/22 2:00	52.0	72.8	64.1	54.2	17.6	16.9	0.0	0.4	SW	8.3	95	975	0.0
16/06/22 3:00	49.2	65.6	61.3	53.0	19.1	16.9	0.0	0.9	SW	8.5	96	975	0.2
16/06/22 4:00	54.7	68.3	64.1	58.9	30.5	17.6	0.0	0.9	SW	5.4	94	975	0.0
16/06/22 5:00	57.6	68.9	66.1	61.3	45.4	28.2	0.0	0.4	WSW	5.7	96	975	0.0
16/06/22 6:00	57.0	74.1	64.4	60.2	49.3	41.1	0.0	0.4	WSW	6.9	96	976	0.0
16/06/22 7:00	57.3	80.3	64.7	58.9	49.3	41.6	0.0	0.4	WSW	8.3	96	976	0.0
16/06/22 8:00	53.8	72.5	62.8	56.7	43.8	30.6	0.0	0.4	SW	11.7	96	976	0.0
16/06/22 9:00	50.2	64.7	58.1	53.7	39.6	30.0	0.4	2.2	NW	15.1	93	975	0.0
16/06/22 10:00	50.0	67.9	60.7	53.0	35.8	28.2	1.3	4.0	WNW	18.3	68	974	0.2
16/06/22 11:00	50.6	66.7	59.8	54.0	38.4	33.7	1.8	5.4	W	19.6	57	973	0.0
16/06/22 12:00	54.0	70.3	65.1	56.8	40.9	33.9	2.2	6.7	W	19.9	51	972	0.0
16/06/22 13:00	55.8	67.9	64.7	59.6	44.4	32.6	2.2	5.8	WSW	20.9	49	972	0.0
16/06/22 14:00	56.0	69.8	64.5	59.7	45.5	37.7	2.2	6.3	WSW	20.9	45	971	0.0
16/06/22 15:00	56.5	71.1	64.6	59.8	47.5	39.0	2.2	5.4	WSW	19.9	42	972	0.0
16/06/22 16:00	58.0	73.9	66.0	61.3	48.8	40.7	1.3	4.0	WSW	16.9	50	971	0.0
16/06/22 17:00	58.3	69.0	66.0	62.0	50.2	41.0	0.9	2.7	WSW	14.6	55	973	0.0
16/06/22 18:00	57.2	69.2	66.3	61.0	45.1	26.5	1.8	3.1	WSW	13.3	58	973	0.0
16/06/22 19:00	59.7	80.6	68.5	63.0	44.2	30.0	0.0	0.4	WSW	8.5	74	974	0.0
16/06/22 20:00	57.9	70.6	67.4	62.3	39.8	22.6	0.0	0.4	WSW	6.9	78	975	0.0
16/06/22 21:00	57.4	70.9	66.9	62.1	38.5	22.8	0.0	0.4	S	7.4	75	975	0.0
16/06/22 22:00	56.1	70.0	66.5	60.9	33.6	20.9	0.0	0.9	S	6.7	72	975	0.0
16/06/22 23:00	55.3	69.4	66.3	60.5	23.6	18.1	0.0	0.4	WSW	5.9	81	975	0.0
17/06/22 0:00	53.7	68.6	65.8	57.6	21.5	17.6	0.0	0.4	WSW	3.5	78	975	0.0
17/06/22 1:00	53.7	69.9	66.9	56.3	18.0	17.2	0.0	0.4	WSW	3.1	86	975	0.0
17/06/22 2:00	52.8	67.6	64.5	56.6	27.9	20.0	0.0	0.9	WSW	5.4	81	974	0.0
17/06/22 3:00	54.4	70.7	66.8	57.9	21.0	18.5	0.0	0.0	---	2.1	91	974	0.0
17/06/22 4:00	56.5	70.9	67.6	60.9	34.0	19.4	0.0	0.4	WSW	1.6	90	975	0.0
17/06/22 5:00	59.0	70.8	68.2	63.5	43.8	33.4	0.0	0.4	WSW	2.9	87	975	0.0
17/06/22 6:00	59.9	70.3	68.0	63.9	48.4	38.5	0.0	0.4	WSW	0.8	88	976	0.0
17/06/22 7:00	59.6	70.6	66.9	62.9	51.7	43.8	0.0	0.4	WSW	5.9	84	976	0.0
17/06/22 8:00	54.2	68.2	63.1	57.3	46.6	40.7	0.0	0.4	SE	12.1	72	975	0.0
17/06/22 9:00	51.2	67.9	60.5	54.6	42.4	32.8	0.0	1.3	W	16.9	58	974	0.0
17/06/22 10:00	53.7	65.8	61.9	57.1	45.7	38.8	1.3	5.8	WSW	17.7	45	974	0.0
17/06/22 11:00	53.5	69.0	62.8	56.6	43.8	36.1	1.8	4.9	WSW	18.4	45	973	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
17/06/22 12:00	54.1	68.6	62.5	57.5	45.8	37.9	1.8	5.4	WSW	18.7	38	972	0.0
17/06/22 13:00	53.2	70.7	62.6	56.0	45.3	38.1	1.8	4.9	WSW	19.3	38	972	0.0
17/06/22 14:00	55.6	68.1	63.5	59.2	47.1	38.8	1.8	5.8	WSW	19.1	39	971	0.0
17/06/22 15:00	57.6	81.7	65.5	60.0	48.2	42.1	2.2	4.9	WSW	18.1	43	972	0.0
17/06/22 16:00	57.3	72.0	65.4	60.6	49.2	39.4	1.3	4.0	WSW	15.1	53	972	0.0
17/06/22 17:00	56.7	69.8	64.6	59.5	50.1	40.8	0.4	1.8	WSW	13.3	60	974	0.0
17/06/22 18:00	56.4	70.7	65.1	59.8	46.2	37.4	0.9	1.8	W	9.5	70	974	0.0
17/06/22 19:00	54.9	68.1	64.1	59.3	40.8	30.0	0.0	0.9	SSE	7.6	79	975	0.0
17/06/22 20:00	54.9	69.2	63.9	58.9	37.3	23.1	0.4	2.2	WSW	5.3	86	975	0.0
17/06/22 21:00	53.9	73.3	63.9	58.0	36.3	26.0	0.0	0.4	WSW	4.6	85	976	0.0
17/06/22 22:00	53.0	71.6	64.4	56.1	30.7	21.5	0.0	0.9	SSE	4.0	90	976	0.0
17/06/22 23:00	50.1	64.8	61.2	54.2	25.4	18.8	0.0	0.4	SW	5.5	93	976	0.0
18/06/22 0:00	50.4	65.9	62.0	54.5	24.0	18.5	0.0	1.3	SSE	4.5	90	976	0.0
18/06/22 1:00	52.7	69.1	65.3	55.3	24.8	19.0	0.4	1.3	S	4.7	90	976	0.0
18/06/22 2:00	49.5	67.5	63.3	51.6	18.7	17.5	0.4	1.8	SSE	4.6	92	976	0.0
18/06/22 3:00	52.0	67.1	64.7	55.3	23.9	19.2	0.0	0.9	S	3.7	90	976	0.0
18/06/22 4:00	51.8	68.0	63.7	55.4	23.0	18.4	0.0	0.4	SW	1.9	92	976	0.0
18/06/22 5:00	52.5	65.8	62.0	56.6	33.5	22.0	0.0	0.4	WSW	2.9	95	977	0.0
18/06/22 6:00	57.5	77.0	67.3	59.7	42.0	33.5	0.0	1.3	WSW	0.8	93	977	0.0
18/06/22 7:00	53.6	65.5	61.2	57.2	44.9	34.1	0.0	0.4	WSW	5.8	93	978	0.0
18/06/22 8:00	51.4	71.5	60.9	53.5	43.6	36.6	0.0	0.4	ESE	10.9	83	977	0.0
18/06/22 9:00	49.4	65.8	59.0	52.4	40.3	33.3	0.0	1.8	N	14.2	72	976	0.0
18/06/22 10:00	50.5	72.0	59.8	52.8	41.9	33.0	0.9	4.0	WSW	17.1	56	976	0.0
18/06/22 11:00	52.5	69.2	62.6	55.5	43.0	34.1	0.9	3.1	SSE	18.7	50	975	0.0
18/06/22 12:00	49.0	68.4	59.8	51.4	37.4	26.7	1.3	3.6	SSE	18.4	48	974	0.0
18/06/22 13:00	49.8	65.3	61.3	52.2	37.9	30.2	0.9	4.0	ESE	19.7	41	974	0.0
18/06/22 14:00	50.3	66.8	59.9	53.3	40.9	33.9	0.9	4.0	SSE	19.9	44	974	0.0
18/06/22 15:00	49.9	64.4	60.3	53.5	38.4	30.6	0.9	3.6	SSE	18.8	42	974	0.0
18/06/22 16:00	52.3	69.6	62.5	54.8	43.1	32.0	0.0	1.8	WSW	15.8	50	974	0.0
18/06/22 17:00	55.6	67.2	63.4	59.2	44.5	30.7	0.0	1.8	ENE	13.3	61	975	0.0
18/06/22 18:00	56.0	67.4	64.4	59.7	43.9	29.7	0.0	0.9	WSW	12.8	63	976	0.0
18/06/22 19:00	56.5	72.8	66.1	60.5	35.3	20.1	0.0	1.3	WSW	10.7	70	977	0.0
18/06/22 20:00	55.0	70.3	65.4	59.0	33.0	25.6	0.0	0.9	WSW	6.2	74	977	0.0
18/06/22 21:00	54.0	73.3	66.2	57.6	31.4	23.2	0.0	1.8	WSW	9.6	77	978	0.0
18/06/22 22:00	56.9	73.4	68.6	60.2	30.7	19.2	0.0	0.9	ENE	5.4	89	978	0.0
18/06/22 23:00	54.2	70.1	65.7	58.2	24.2	17.7	0.0	0.9	WSW	6.6	88	978	0.0
19/06/22 0:00	52.9	69.6	66.0	55.4	20.4	17.1	0.4	1.3	WSW	2.4	90	978	0.0
19/06/22 1:00	47.0	66.0	61.6	46.1	17.7	17.2	0.4	2.2	S	4.5	93	977	0.0
19/06/22 2:00	46.7	64.1	59.8	49.3	19.2	17.5	0.0	1.3	WSW	5.1	91	977	0.0
19/06/22 3:00	49.2	68.9	63.3	49.6	21.5	18.8	0.0	1.3	S	2.6	91	977	0.0
19/06/22 4:00	47.6	65.7	61.4	49.5	23.4	20.2	0.4	1.8	S	3.2	91	978	0.0
19/06/22 5:00	50.2	65.7	61.6	53.4	35.1	24.6	0.4	1.8	WSW	4.7	95	978	0.0
19/06/22 6:00	53.1	67.7	62.7	56.7	38.9	29.4	0.0	1.3	SSE	2.5	94	978	0.0
19/06/22 7:00	53.3	67.0	62.3	56.7	43.0	35.9	0.4	1.3	SSE	8.5	92	979	0.0
19/06/22 8:00	49.9	70.8	60.9	51.5	39.9	35.7	1.8	3.6	SSE	12.7	81	977	0.0
19/06/22 9:00	47.1	66.4	57.2	49.0	37.8	31.2	0.9	3.6	SSE	17.2	63	977	0.0
19/06/22 10:00	47.6	66.3	58.8	49.8	36.3	31.3	1.3	4.5	SSE	19.0	60	977	0.0
19/06/22 11:00	48.7	69.8	59.9	50.4	36.6	31.1	2.2	6.7	ESE	19.1	56	976	0.0
19/06/22 12:00	48.4	67.0	59.4	50.6	37.0	29.3	2.7	6.7	ESE	20.2	55	974	0.0
19/06/22 13:00	49.1	69.3	59.8	51.1	39.4	34.2	1.8	4.5	ESE	19.0	61	974	0.0
19/06/22 14:00	50.4	66.3	59.7	53.8	40.1	32.4	2.7	5.4	ESE	18.6	60	974	0.0
19/06/22 15:00	50.3	67.8	60.4	52.4	40.9	33.9	2.7	5.4	E	18.8	60	975	0.0
19/06/22 16:00	53.1	72.8	62.7	55.9	42.8	32.7	2.7	5.8	ESE	15.8	66	970	0.0
19/06/22 17:00	55.8	69.9	64.6	59.2	45.7	34.1	0.4	1.3	ESE	13.3	75	975	0.0
19/06/22 18:00	53.7	71.3	63.5	57.0	39.2	25.4	0.4	2.2	S	12.6	79	976	0.0
19/06/22 19:00	53.1	67.0	63.6	56.6	37.3	21.4	0.0	0.9	WSW	12.7	80	976	0.0
19/06/22 20:00	53.3	71.3	64.3	56.7	34.8	24.1	0.4	1.3	WSW	10.7	84	976	0.0
19/06/22 21:00	53.6	68.0	65.0	57.4	34.5	21.9	0.0	0.9	WSW	8.7	87	977	0.0
19/06/22 22:00	52.0	65.3	62.9	56.7	31.2	21.0	0.0	1.3	SSE	7.8	93	977	0.0
19/06/22 23:00	48.2	69.5	59.6	50.7	22.4	17.8	0.4	1.8	SSE	8.8	93	976	0.0
20/06/22 0:00	43.1	62.5	55.5	46.0	19.2	17.7	0.4	2.2	SSE	8.7	92	976	0.0
20/06/22 1:00	53.4	82.6	62.2	49.8	20.6	17.3	0.0	1.8	SSE	8.0	93	975	0.0
20/06/22 2:00	50.9	74.9	62.6	50.8	22.2	17.9	0.0	0.4	SSE	7.2	92	975	0.0
20/06/22 3:00	50.0	70.2	63.1	52.1	22.9	17.9	0.0	1.3	WSW	6.7	93	975	0.0
20/06/22 4:00	50.9	64.6	61.8	54.2	34.4	22.4	0.0	1.3	WSW	7.8	92	975	0.0
20/06/22 5:00	56.3	68.8	65.1	59.8	45.9	33.9	0.0	1.3	WSW	8.1	96	975	0.0
20/06/22 6:00	57.0	67.0	64.3	60.6	47.9	40.6	0.0	0.9	WSW	7.4	91	976	0.0
20/06/22 7:00	55.9	71.6	63.5	59.2	47.9	41.0	0.0	0.9	SSE	8.8	95	976	0.0
20/06/22 8:00	53.1	75.4	63.6	55.5	43.3	39.1	0.4	1.8	SE	12.7	93	977	0.0
20/06/22 9:00	51.0	68.7	62.0	54.4	40.9	32.6	0.9	3.1	SE	15.6	72	976	0.0
20/06/22 10:00	52.1	73.9	62.0	54.6	40.0	33.9	1.3	3.6	SSE	18.1	63	975	0.0
20/06/22 11:00	50.0	66.8	61.5	53.1	37.3	32.4	1.3	3.6	SSE	18.1	63	975	0.0
20/06/22 12:00	52.1	69.8	62.5	56.0	39.2	32.0	1.3	3.6	SSE	18.1	63	975	0.0

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP4

Address	22 Lochaber Road	**Monitoring Start**	14/06/2022	**Dominant Road**	Gore Highway
Suburb	Pittsworth	**Monitoring Finish**	20/06/2022	**Dist. to Road (m)**	149
District	Toowoomba	**Mic. Height (m)**	1.8	**Start Cal. (dB(A))**	94.0
Latitude	-27.699440°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	94.0
Longitude	151.636760°	**Monitor Serial**	10835	**Operator**	LAN
Lot No.	6RP212368	**Measurement**	Façade	**Sample Interval**	1 hour

Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
59.3	**58.1**	**66.6**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Tuesday, 14 June 2022	-^	-^	-^
Wednesday, 15 June 2022	62.1	61.1	71.4
Thursday, 16 June 2022	56.4	53.6	63.5
Friday, 17 June 2022	59.4	59.5	64.8
Saturday, 18 June 2022	59.9	60.7	72.1
Sunday, 19 June 2022	61.7	62.2	64.8
Monday, 20 June 2022	-^	-^	-^

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos

Attended Measurement Summary

Attended Measurement #1: Tuesday, 14 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
11:00 AM	11:15 AM	Attended	56.3	28.9	71.5	66.4	60.7	40.5
11:00 AM	12:00 PM	Logger	57.5	26.5	73.5	68.1	61.4	40.5

Comments

Traffic noise on Gore Highway is the dominant noise source. Other noises include: overhead recreational aircraft, birds, and there are 2 dogs on site which whimper & bark.

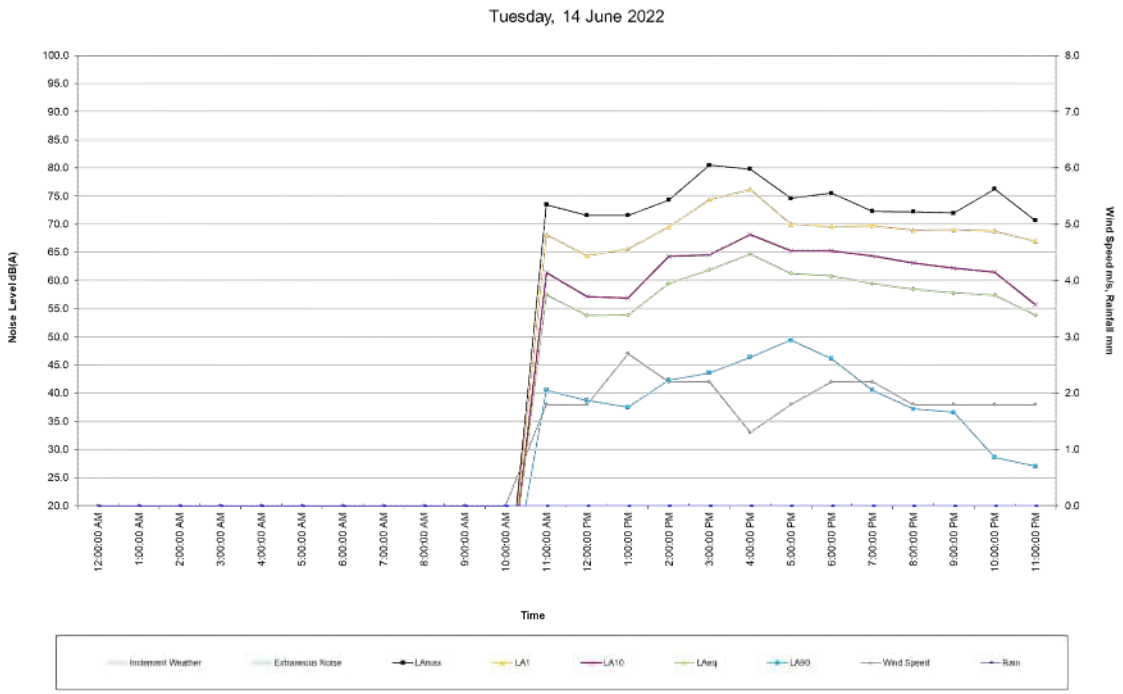
Attended Measurement #2: Monday, 20 June 2022

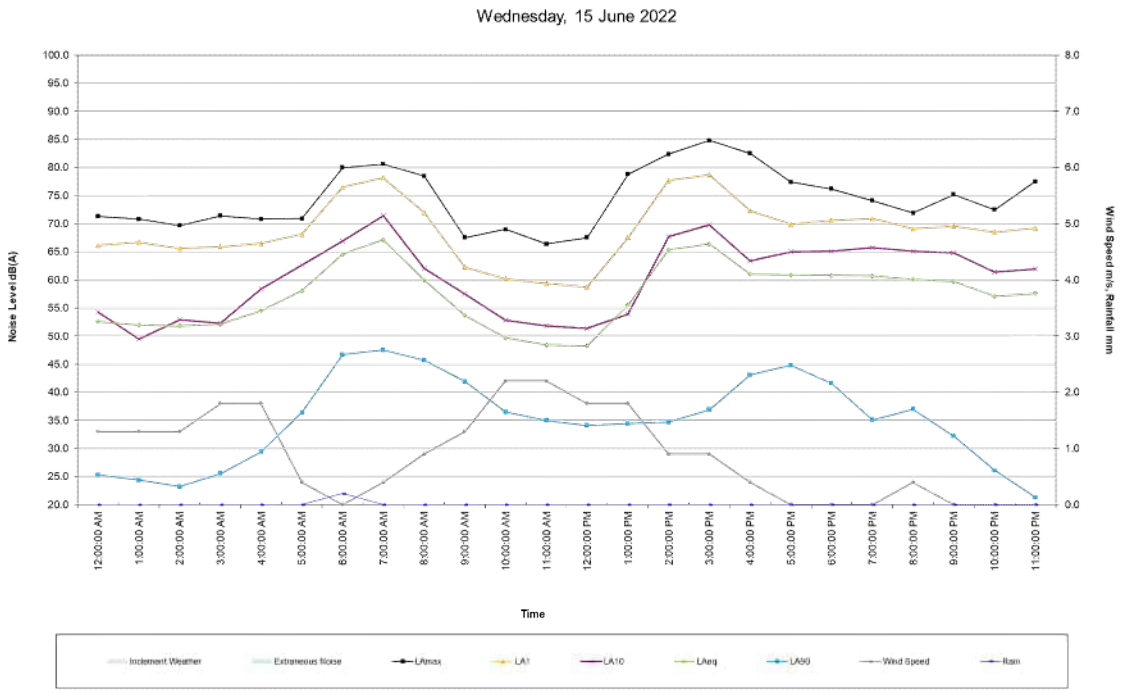
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
1:38 PM	1:54 PM	Attended	59.9	37.9	77.5	69.7	64.1	44.6
1:00 PM	2:00 PM	Logger	62.7	33.9	81.2	72.8	66.4	46.5

Comments

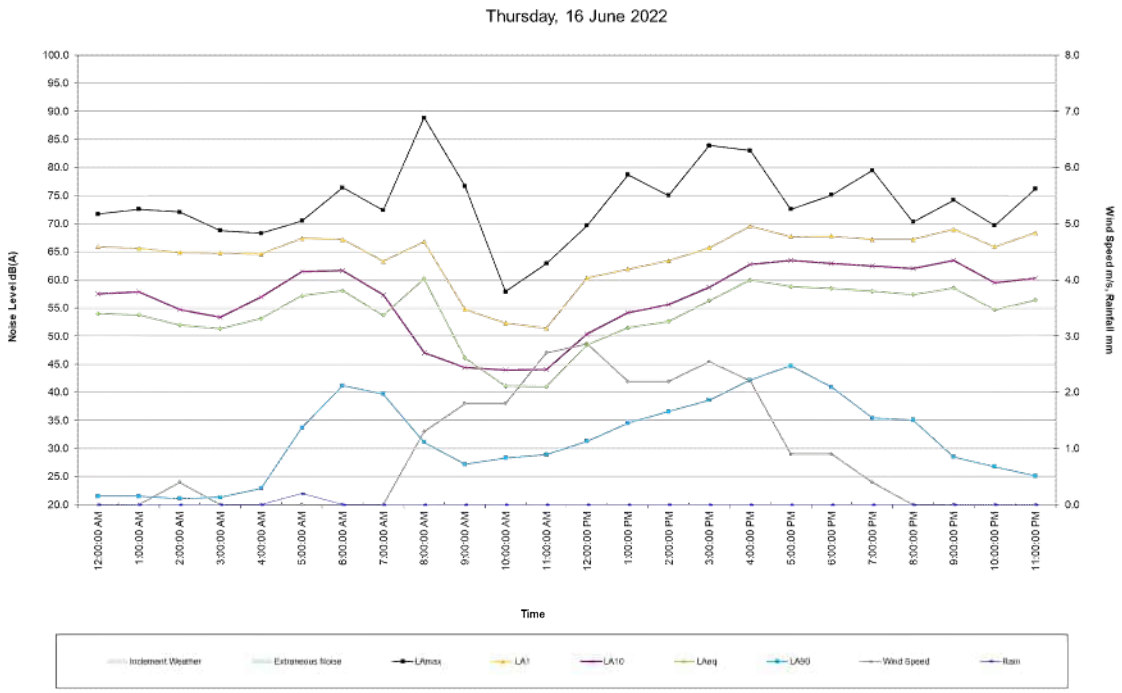
Traffic noise on Gore Highway is the dominant noise source. Other noises include dog barking & whimpering.

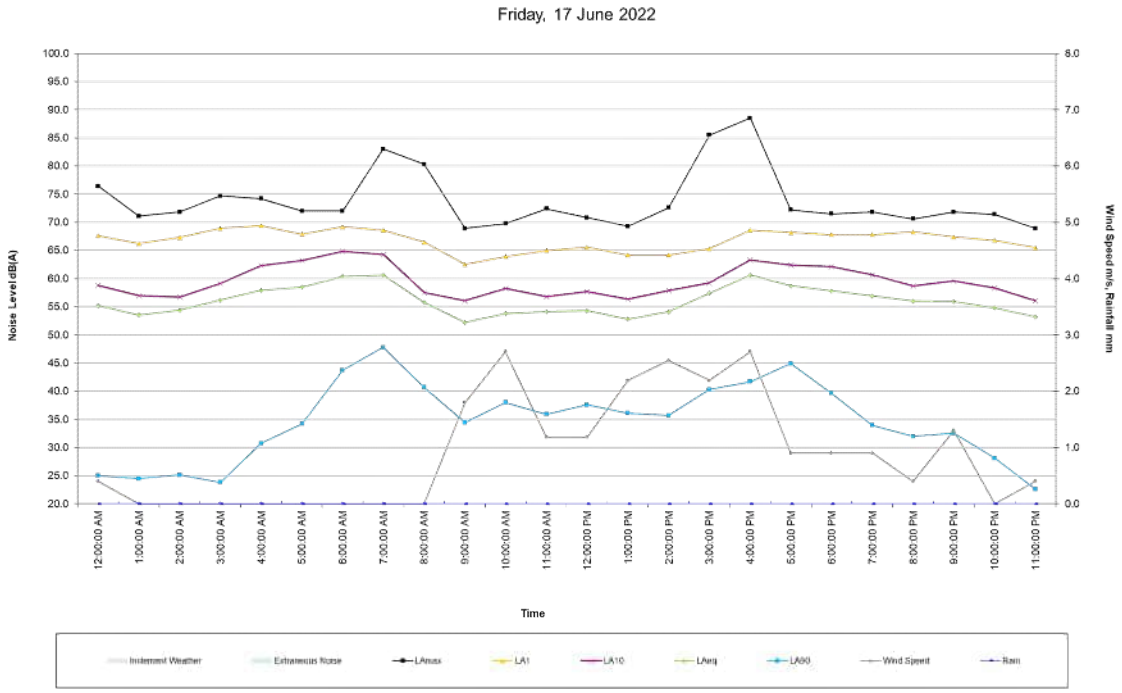
Site Noise and Weather Conditions



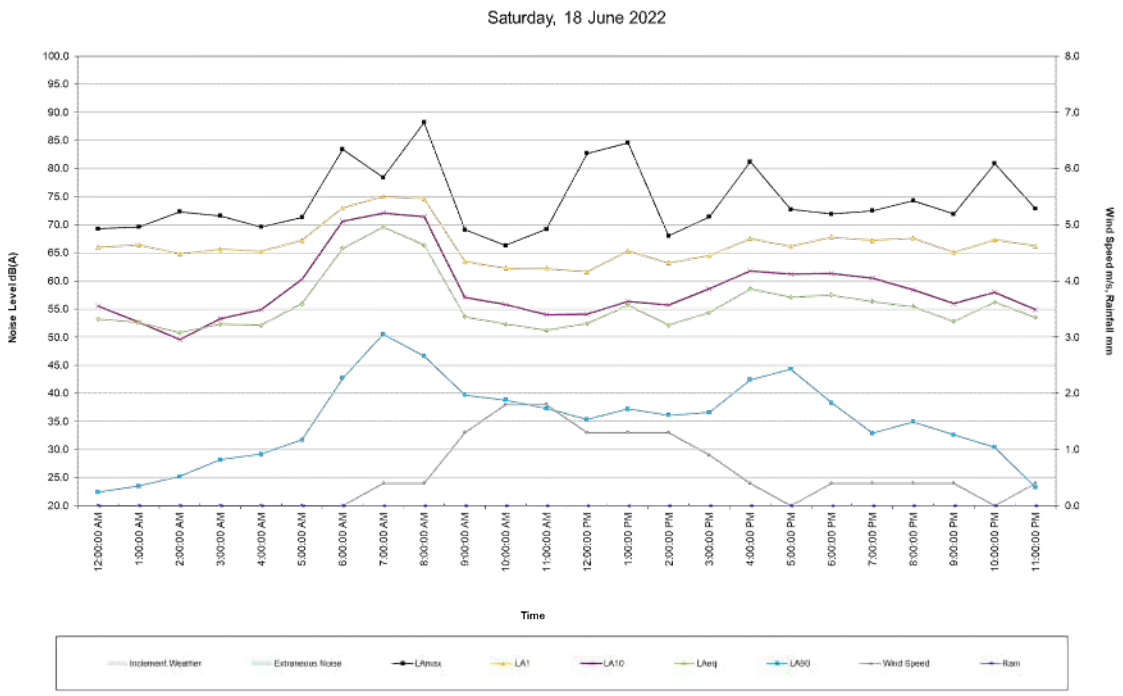


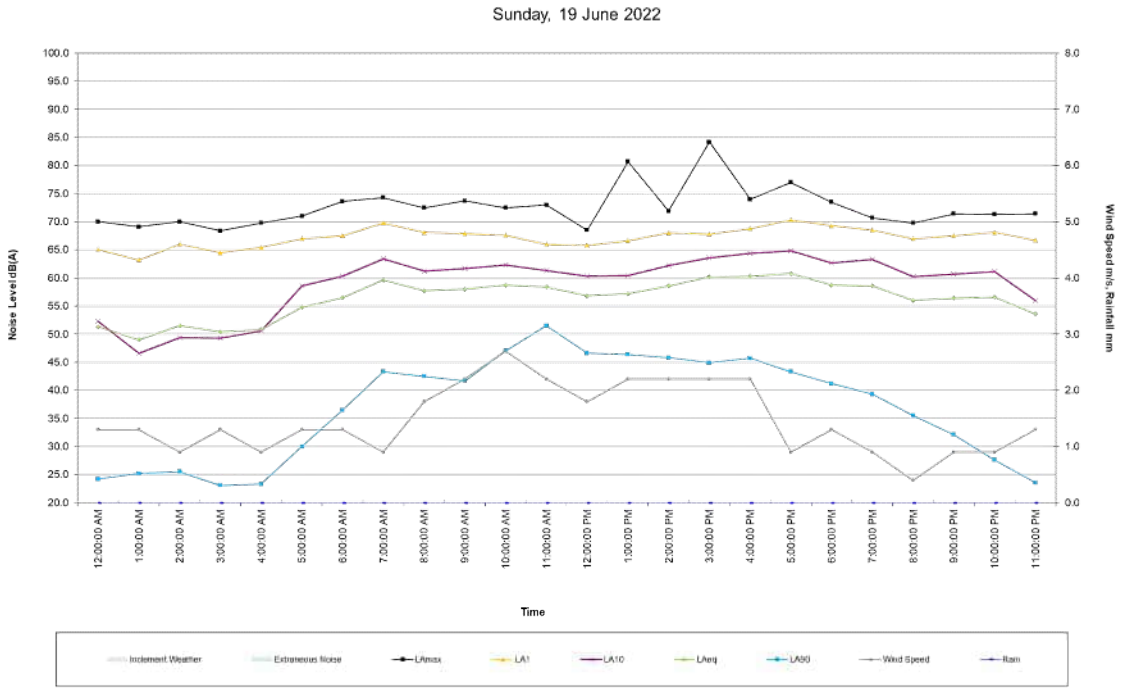
Site Noise and Weather Conditions



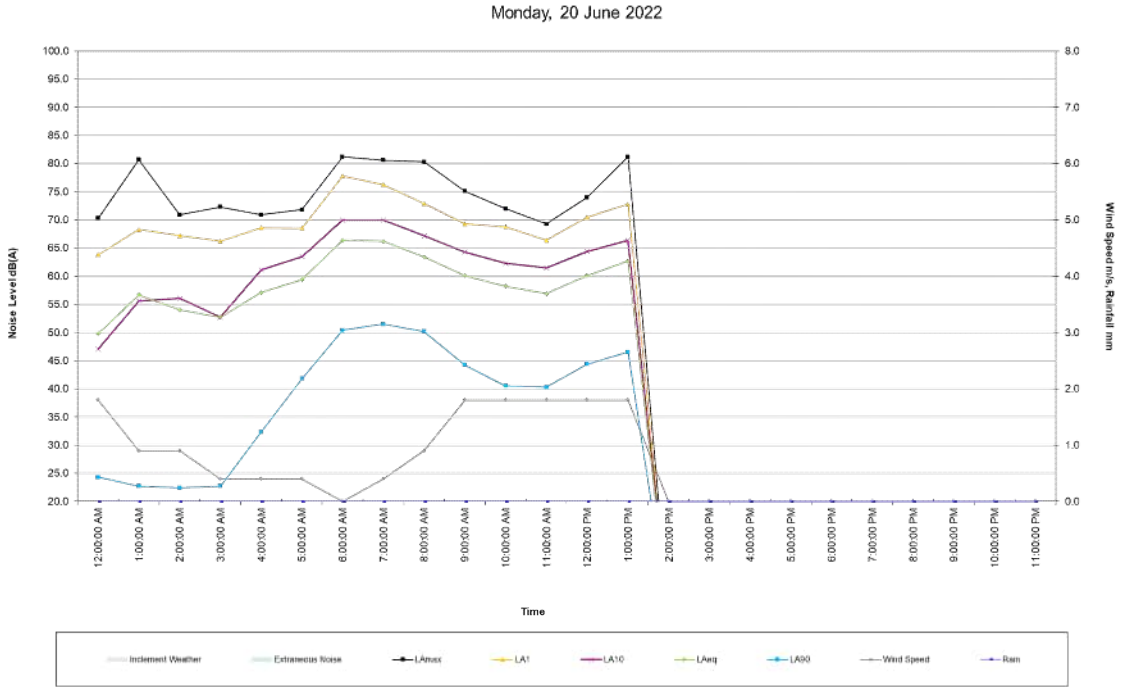


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
14/06/22 11:00	57.5	73.5	68.1	61.4	40.5	26.5	1.8	5.4	NNE	18.6	68	968	0.0
14/06/22 12:00	53.8	71.6	64.4	57.2	38.7	32.2	1.8	4.9	N	19.9	59	967	0.0
14/06/22 13:00	53.9	71.6	65.6	56.9	37.5	26.5	2.7	5.4	NNE	20.3	57	966	0.0
14/06/22 14:00	59.5	74.3	69.5	64.3	42.3	33.9	2.2	11.2	N	20.6	54	966	0.0
14/06/22 15:00	61.9	80.5	74.4	64.6	43.6	33.0	2.2	5.8	NNE	19.5	63	966	0.0
14/06/22 16:00	64.7	79.8	76.2	68.2	46.4	38.0	1.3	4.9	ENE	16.1	75	967	0.0
14/06/22 17:00	61.3	74.6	70.0	65.3	49.4	38.6	1.8	4.0	ENE	14.7	83	967	0.0
14/06/22 18:00	60.8	75.5	69.6	65.3	46.1	40.3	2.2	4.0	ENE	14.3	85	968	0.0
14/06/22 19:00	59.5	72.3	69.8	64.4	40.5	35.5	2.2	4.9	ENE	13.7	87	968	0.0
14/06/22 20:00	58.5	72.2	68.9	63.1	37.2	32.2	1.8	4.5	NE	13.4	88	968	0.0
14/06/22 21:00	57.8	72.0	69.0	62.2	36.6	30.5	1.8	4.0	ENE	12.8	91	968	0.0
14/06/22 22:00	57.4	76.3	68.8	61.5	28.6	25.8	1.8	4.0	NE	12.7	92	969	0.0
14/06/22 23:00	53.9	70.7	67.0	55.7	27.0	25.7	1.8	4.0	NE	12.9	91	968	0.0
15/06/22 0:00	52.6	71.3	66.1	54.3	25.3	23.1	1.3	3.6	NE	12.6	91	968	0.0
15/06/22 1:00	52.0	70.8	66.7	49.5	24.4	23.5	1.3	3.6	ENE	11.9	93	968	0.0
15/06/22 2:00	51.8	69.7	65.6	52.9	23.2	22.0	1.3	4.0	ENE	11.4	94	968	0.0
15/06/22 3:00	52.1	71.4	65.9	52.3	25.5	24.4	1.8	4.0	ENE	10.9	95	968	0.0
15/06/22 4:00	54.5	70.8	66.5	58.4	29.4	25.0	1.8	4.0	ENE	11.2	96	968	0.0
15/06/22 5:00	58.1	70.9	68.1	62.7	36.4	26.8	0.4	3.1	NE	10.8	96	968	0.0
15/06/22 6:00	64.6	80.0	76.5	66.9	46.7	33.0	0.0	2.2	ENE	10.9	96	968	0.2
15/06/22 7:00	67.1	80.6	78.2	71.4	47.5	34.2	0.4	2.7	NNE	12.9	95	969	0.0
15/06/22 8:00	60.0	78.5	72.0	62.0	45.7	34.8	0.9	2.7	NNW	15.8	87	969	0.0
15/06/22 9:00	53.7	67.5	62.3	57.5	41.9	30.9	1.3	3.6	N	17.6	78	969	0.0
15/06/22 10:00	49.7	69.0	60.2	52.8	36.5	27.0	2.2	5.8	NNW	19.0	68	968	0.0
15/06/22 11:00	48.4	66.4	59.4	51.8	35.0	25.9	2.2	4.5	NNW	19.9	59	967	0.0
15/06/22 12:00	48.3	67.5	58.7	51.4	34.1	24.6	1.8	4.9	NW	20.5	55	966	0.0
15/06/22 13:00	55.5	78.8	67.5	53.9	34.4	26.0	1.8	5.4	WNW	20.5	56	965	0.0
15/06/22 14:00	65.3	82.4	77.7	67.7	34.7	24.1	0.9	3.6	WNW	19.4	59	965	0.0
15/06/22 15:00	66.4	84.8	78.7	69.8	36.9	26.3	0.9	3.6	W	20.3	52	965	0.0
15/06/22 16:00	61.0	82.5	72.3	63.4	43.1	29.2	0.4	1.8	WSW	15.9	66	965	0.0
15/06/22 17:00	60.9	77.4	69.9	65.0	44.8	32.1	0.0	1.3	WSW	12.9	76	966	0.0
15/06/22 18:00	60.8	76.2	70.6	65.1	41.6	30.4	0.0	0.9	WSW	11.2	79	966	0.0
15/06/22 19:00	60.7	74.1	70.9	65.7	35.1	27.9	0.0	1.3	SE	11.5	82	967	0.0
15/06/22 20:00	60.1	71.9	69.1	65.1	37.0	28.1	0.4	1.3	SE	11.6	85	967	0.0
15/06/22 21:00	59.7	75.2	69.6	64.8	32.2	23.8	0.0	0.9	SE	11.6	90	967	0.0
15/06/22 22:00	57.1	72.5	68.5	61.4	26.1	20.9	0.0	0.4	SE	10.1	92	967	0.0
15/06/22 23:00	57.6	77.5	69.2	61.9	21.3	19.7	0.0	0.9	SE	9.7	94	967	0.0
16/06/22 0:00	54.0	71.7	65.9	57.5	21.5	20.4	0.0	0.9	SE	11.6	96	967	0.0
16/06/22 1:00	53.8	72.6	65.6	57.9	21.5	20.6	0.0	1.3	ESE	12.3	95	966	0.0
16/06/22 2:00	52.0	72.1	64.9	54.7	21.1	20.2	0.4	2.7	NNE	12.9	94	966	0.0
16/06/22 3:00	51.3	68.8	64.8	53.4	21.3	20.0	0.0	1.3	N	11.7	92	965	0.0
16/06/22 4:00	53.1	68.3	64.6	57.0	22.9	20.0	0.0	1.3	N	8.1	94	965	0.0
16/06/22 5:00	57.2	70.5	67.4	61.5	33.7	24.9	0.0	0.0	---	7.8	96	966	0.2
16/06/22 6:00	58.1	76.4	67.2	61.7	41.2	28.6	0.0	0.9	N	7.6	96	966	0.0
16/06/22 7:00	53.7	72.4	63.3	57.3	39.7	29.7	0.0	0.9	N	12.5	97	966	0.0
16/06/22 8:00	60.2	88.9	66.8	47.0	31.1	25.3	1.3	3.1	WNW	15.2	87	967	0.0
16/06/22 9:00	46.1	76.7	54.8	44.4	27.2	24.0	1.8	3.6	WNW	17.7	74	966	0.0
16/06/22 10:00	41.1	57.9	52.3	44.0	28.3	24.6	1.8	4.9	W	19.9	62	966	0.0
16/06/22 11:00	41.0	62.9	51.4	44.1	28.9	24.6	2.7	5.8	WSW	20.1	59	964	0.0
16/06/22 12:00	48.4	69.7	60.4	50.4	31.3	27.8	2.9	6.7	WSW	20.4	56	963	0.0
16/06/22 13:00	51.5	78.7	61.9	54.2	34.5	29.0	2.2	6.3	SW	20.5	48	963	0.0
16/06/22 14:00	52.6	75.0	63.4	55.6	36.6	28.2	2.2	6.7	SW	20.8	46	963	0.0
16/06/22 15:00	56.3	83.9	65.7	58.7	38.6	31.9	2.5	7.2	SW	19.2	46	963	0.0
16/06/22 16:00	60.0	83.0	69.6	62.8	42.2	33.3	2.2	4.9	SW	16.0	54	963	0.0
16/06/22 17:00	58.8	72.6	67.7	63.5	44.7	35.1	0.9	2.2	SW	12.8	61	964	0.0
16/06/22 18:00	58.5	75.1	67.8	62.9	40.9	30.3	0.9	1.8	SSW	11.2	66	964	0.0
16/06/22 19:00	58.0	79.5	67.2	62.5	35.4	24.5	0.4	1.3	SSW	7.9	73	965	0.0
16/06/22 20:00	57.4	70.3	67.2	62.0	35.1	26.3	0.0	0.4	SSW	6.8	77	965	0.0
16/06/22 21:00	58.6	74.2	69.0	63.5	28.5	23.3	0.0	1.3	SSW	5.9	80	965	0.0
16/06/22 22:00	54.7	69.7	65.9	59.5	26.8	23.4	0.0	0.4	SSW	5.1	80	965	0.0
16/06/22 23:00	56.4	76.2	68.4	60.3	25.1	22.4	0.0	0.9	SSW	5.7	79	965	0.0
17/06/22 0:00	55.2	76.4	67.6	58.8	25.0	22.8	0.4	1.8	SSW	4.3	83	965	0.0
17/06/22 1:00	53.5	71.1	66.2	57.0	24.5	22.9	0.0	1.3	SSW	4.4	82	965	0.0
17/06/22 2:00	54.4	71.8	67.3	56.7	25.1	23.2	0.0	0.9	SSW	4.9	80	964	0.0
17/06/22 3:00	56.2	74.7	68.9	59.1	23.8	22.4	0.0	1.8	SSW	3.7	84	964	0.0
17/06/22 4:00	57.9	74.2	69.4	62.3	30.7	25.6	0.0	0.9	SSW	3.6	86	964	0.0
17/06/22 5:00	58.5	72.0	67.9	63.2	34.2	28.4	0.0	0.9	SSW	4.0	87	965	0.0
17/06/22 6:00	60.4	72.0	69.2	64.8	43.7	34.7	0.0	0.9	SSW	3.9	87	965	0.0
17/06/22 7:00	60.6	83.0	68.6	64.3	47.8	35.6	0.0	0.4	SSW	10.0	82	966	0.0
17/06/22 8:00	55.8	80.3	66.5	57.5	40.7	32.0	0.0	2.2	S	14.8	61	966	0.0
17/06/22 9:00	52.2	68.9	62.5	56.1	34.4	27.7	1.8	4.0	SSW	16.1	56	966	0.0
17/06/22 10:00	53.8	69.8	63.9	58.2	38.0	30.0	2.7	5.4	SSW	17.3	51	965	0.0
17/06/22 11:00	54.1	72.4	65.0	56.8	35.9	29.8	1.2	6.7	SSW	17.6	49	964	0.0
17/06/22 12:00	54.3	70.8	65.6	57.7	37.6	27.8	1.2	5.8	SSW	18.2	45	963	0.0
17/06/22 13:00	52.8	69.3	64.2	56.3	36.1	29.0	2.2	6.7	SW	18.8	44	963	0.0
17/06/22 14:00	54.1	72.6	64.2	57.9	35.7	28.6	2.5	6.3	SW	18.3	46	963	0.0
17/06/22 15:00	57.4	85.5	65.3	59.2	40.3	31.6	2.2	5.8	SW	17.2	52	963	0.0
17/06/22 16:00	60.6	88.5	68.6	63.3	41.7	34.7	2.7	5.8	SSW	14.8	60	964	0.0
17/06/22 17:00	58.7	72.2	68.2	62.4	44.9	35.1	0.9	2.2	S	12.3	68	965	0.0
17/06/22 18:00	57.8	71.5	67.8	62.1	39.6	30.3	0.9	2.7	SSW	10.8	72	966	0.0
17/06/22 19:00	56.9	71.8	67.8	60.7	33.9	25.6	0.9	1.8	SSW	9.7	76	966	0.0
17/06/22 20:00	56.0	70.6	68.3	58.7	32.0	27.4	0.4	2.2	SSE	8.7	81	966	0.0
17/06/22 21:00	55.9	71.8	67.4	59.6	32.5	26.2	1.3	3.6	S	9.0	80	966	0.0
17/06/22 22:00	54.8	71.4	66.8	58.3	28.1	21.5	0.0	0.9	S	6.9	86	966	0.0
17/06/22 23:00	53.2	68.9	65.5	56.1	22.6	20.6	0.4	1.3	SSE	7.3	84	966	0.0
18/06/22 0:00	53.2	69.3	66.0	55.5	22.4	20.4	0.0	1.3	SE	5.3	90	966	0.0
18/06/22 1:00	52.6	69.6	66.4	52.6	23.5	21.1	0.0	0.9	SE	3.5	89	966	0.0
18/06/22 2:00	50.8	72.3	64.8	49.6	25.2	22.7	0.0	0.0	---	2.6	91	966	0.0
18/06/22 3:00	52.3	71.6	65.6	53.3	28.2	25.4	0.0	0.4	SE	2.6	93	966	0.0
18/06/22 4:00	52.1	69.6	65.2	54.9	29.2	27.3	0.0	0.4	SE	2.7	94	966	0.0
18/06/22 5:00	55.9	71.3	67.2	60.3	31.7	27.2	0.0	0.9	SE	2.4	93	966	0.0
18/06/22 6:00	65.8	83.4	73.0	70.6	42.7	32.7	0.0	0.4	SE	3.3	94	966	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
18/06/22 7:00	69.6	78.4	75.0	72.1	50.5	37.4	0.4	1.3	SE	8.3	93	967	0.0
18/06/22 8:00	66.4	88.2	74.6	71.4	46.6	36.0	0.4	2.7	SE	12.4	76	968	0.0
18/06/22 9:00	53.6	69.1	63.4	57.1	39.7	28.9	1.3	3.6	S	14.4	71	968	0.0
18/06/22 10:00	52.3	66.3	62.3	55.8	38.8	30.2	1.8	4.9	S	16.2	62	967	0.0
18/06/22 11:00	51.2	69.2	62.2	54.0	37.3	27.5	1.8	4.5	SSW	17.0	58	966	0.0
18/06/22 12:00	52.4	82.7	61.6	54.1	35.3	29.5	1.3	4.0	SSW	18.1	53	965	0.0
18/06/22 13:00	55.7	84.6	65.3	56.3	37.2	31.5	1.3	3.6	SSW	18.3	45	965	0.0
18/06/22 14:00	52.1	68.0	63.2	55.7	36.1	29.1	1.3	6.3	SSW	18.0	45	965	0.0
18/06/22 15:00	54.4	71.4	64.5	58.6	36.6	30.9	0.9	3.6	S	17.8	47	965	0.0
18/06/22 16:00	58.6	81.2	67.5	61.8	42.4	33.5	0.4	2.2	S	15.6	53	966	0.0
18/06/22 17:00	57.1	72.7	66.1	61.2	44.3	35.4	0.0	0.9	S	10.5	67	967	0.0
18/06/22 18:00	57.5	71.9	67.8	61.3	38.3	29.0	0.4	1.3	S	9.6	71	967	0.0
18/06/22 19:00	56.3	72.5	67.2	60.5	32.9	26.2	0.4	2.2	SSW	7.3	76	967	0.0
18/06/22 20:00	55.4	74.3	67.6	58.4	34.9	25.8	0.4	1.8	SSW	7.1	84	968	0.0
18/06/22 21:00	52.8	71.9	65.1	56.0	32.6	21.1	0.4	1.3	SE	7.0	82	968	0.0
18/06/22 22:00	56.2	80.9	67.3	58.0	30.4	23.7	0.0	0.9	SE	5.8	86	968	0.0
18/06/22 23:00	53.5	72.9	66.2	54.9	23.3	20.0	0.4	1.3	SE	5.7	89	968	0.0
19/06/22 0:00	51.3	70.0	65.1	52.3	24.2	22.0	1.3	2.7	SSE	6.9	86	968	0.0
19/06/22 1:00	49.0	69.1	63.2	46.6	25.2	23.6	1.3	2.2	SE	5.5	89	967	0.0
19/06/22 2:00	51.5	70.0	66.0	49.4	25.5	23.6	0.9	1.8	ESE	5.1	90	967	0.0
19/06/22 3:00	50.4	68.4	64.5	49.3	23.1	21.4	1.3	1.8	ESE	6.0	91	967	0.0
19/06/22 4:00	50.8	69.8	65.4	50.6	23.3	20.9	0.9	1.8	ESE	5.3	93	967	0.0
19/06/22 5:00	54.8	71.0	67.0	58.6	30.0	23.8	1.3	2.7	ESE	6.6	93	967	0.0
19/06/22 6:00	56.5	73.6	67.5	60.3	36.5	28.7	1.3	2.2	SSE	5.7	94	968	0.0
19/06/22 7:00	59.6	74.3	69.8	63.4	43.3	32.5	0.9	1.8	SE	10.6	90	968	0.0
19/06/22 8:00	57.7	72.5	68.1	61.2	42.5	35.6	1.8	4.5	SSE	13.8	81	968	0.0
19/06/22 9:00	58.0	73.7	67.9	61.7	41.7	33.5	2.2	4.5	SE	16.3	71	969	0.0
19/06/22 10:00	58.7	72.5	67.6	62.3	47.0	34.3	2.7	5.4	SE	17.8	66	968	0.0
19/06/22 11:00	58.4	73.0	66.0	61.3	51.5	41.5	2.2	4.5	ESE	18.1	65	967	0.0
19/06/22 12:00	56.8	68.5	65.8	60.3	46.6	33.8	1.8	4.5	SE	19.9	59	966	0.0
19/06/22 13:00	57.2	80.7	66.6	60.4	46.4	35.2	2.2	5.4	SSE	19.3	62	966	0.0
19/06/22 14:00	58.6	71.9	68.0	62.2	45.8	40.5	2.2	4.9	SSE	18.4	62	966	0.0
19/06/22 15:00	60.2	84.2	67.8	63.6	44.9	35.2	2.2	5.8	SE	18.0	64	966	0.0
19/06/22 16:00	60.3	74.0	68.8	64.4	45.7	33.5	2.2	4.9	SE	15.8	69	966	0.0
19/06/22 17:00	60.8	77.0	70.3	64.8	43.3	35.6	0.9	3.1	E	13.2	78	966	0.0
19/06/22 18:00	58.7	73.5	69.3	62.7	41.2	34.4	1.3	3.1	ESE	12.7	84	966	0.0
19/06/22 19:00	58.6	70.7	68.5	63.3	39.3	31.9	0.9	3.6	ESE	11.0	87	967	0.0
19/06/22 20:00	56.0	69.8	67.0	60.2	35.5	27.2	0.4	1.3	ESE	9.5	92	967	0.0
19/06/22 21:00	56.4	71.4	67.5	60.7	32.1	24.0	0.9	1.8	SSE	9.7	90	967	0.0
19/06/22 22:00	56.6	71.3	68.1	61.1	27.6	22.5	0.9	2.7	SE	11.1	88	968	0.0
19/06/22 23:00	53.6	71.4	66.7	56.0	23.6	22.7	1.3	3.1	SE	11.1	91	967	0.0
20/06/22 0:00	49.8	70.3	63.8	47.0	24.3	21.9	1.8	4.0	SE	11.0	90	966	0.0
20/06/22 1:00	56.7	80.7	68.3	55.6	22.7	21.6	0.9	2.2	SE	10.2	91	966	0.0
20/06/22 2:00	54.0	70.9	67.2	56.1	22.4	21.6	0.9	2.7	SE	9.9	93	966	0.0
20/06/22 3:00	52.7	72.3	66.2	52.7	22.7	21.6	0.4	1.8	SE	9.5	94	965	0.0
20/06/22 4:00	57.1	70.9	68.6	61.1	32.3	23.4	0.4	1.8	SE	9.6	93	965	0.0
20/06/22 5:00	59.4	71.8	68.5	63.5	41.8	29.9	0.4	1.3	ESE	8.9	92	966	0.0
20/06/22 6:00	66.4	81.2	77.8	70.0	50.4	40.6	0.0	1.3	ESE	8.8	94	966	0.0
20/06/22 7:00	66.2	80.6	76.3	70.0	51.5	41.7	0.4	1.3	ESE	10.4	93	967	0.0
20/06/22 8:00	63.4	80.3	72.9	67.2	50.2	38.4	0.9	3.1	SE	12.9	86	967	0.0
20/06/22 9:00	60.1	75.1	69.3	64.3	44.2	32.4	1.8	4.0	SSE	15.8	75	967	0.0
20/06/22 10:00	58.2	72.0	68.8	62.3	40.5	31.6	1.8	4.0	SE	17.8	63	966	0.0
20/06/22 11:00	56.9	69.3	66.4	61.5	40.3	30.1	1.8	4.5	ESE	19.2	60	965	0.0
20/06/22 12:00	60.1	74.0	70.5	64.4	44.4	33.5	1.8	4.5	SSE	19.7	53	964	0.0
20/06/22 13:00	62.7	81.2	72.8	66.4	46.5	33.9	1.8	4.5	SSE	19.7	53	964	0.0

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP5

Address	Quibet Road	**Monitoring Start**	14/06/2022	**Dominant Road**	Gore Highway & Oakley Pittsworth Rd
Suburb	Scrubby Mountain	**Monitoring Finish**	20/06/2022	**Dist. to Road (m)**	112
District	Toowoomba	**Mic. Height (m)**	3.5	**Start Cal. (dB(A))**	94.0
Latitude	-27.707166°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	94.3
Longitude	151.624434°	**Monitor Serial**	11096	**Operator**	LAN
Lot No.	62SP146089	**Measurement**	Free Field	**Sample Interval**	1 hour

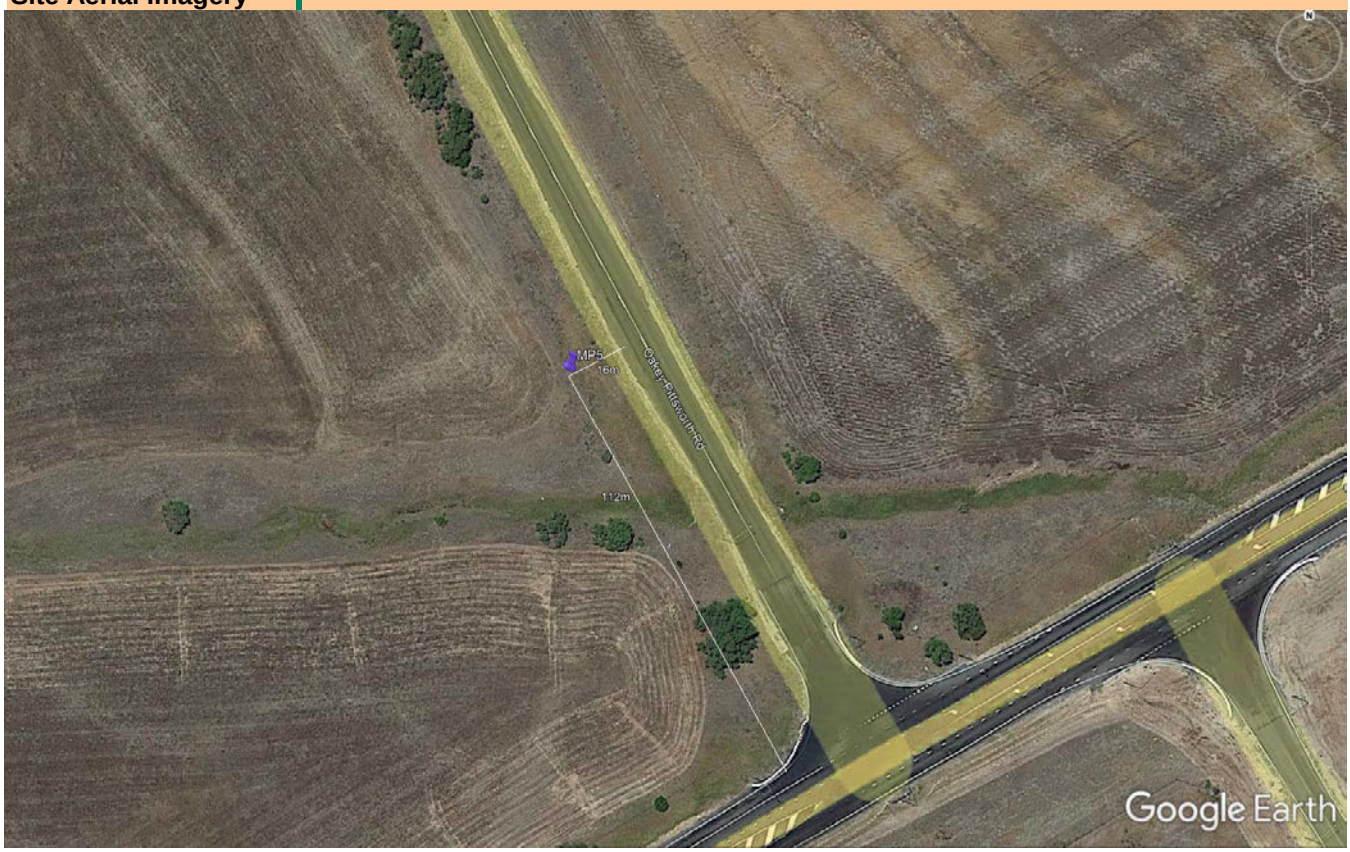
Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
65.1	**66.0**	**68.0**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Tuesday, 14 June 2022	-^	-^	-^
Wednesday, 15 June 2022	64.7	64.9	67.1
Thursday, 16 June 2022	66.4	67.6	69.6
Friday, 17 June 2022	64.4	65.6	67.4
Saturday, 18 June 2022	62.4	63.6	64.7
Sunday, 19 June 2022	62.6	63.6	66.0
Monday, 20 June 2022	-^	-^	-^

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery



Site Photos

Attended Measurement Summary

Attended Measurement #1: Tuesday, 14 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
12:41 PM	12:57 PM	Attended	60.6	34.2	82.0	73.9	61.7	40.6
12:00 PM	1:00 PM	Logger	62.0	36.9	80.8	73.8	64.8	45.0

Comments

Transient traffic noise from Oakley Pittsworth Road located at 16m is the dominant noise source. There is steady state traffic noise from Gore Highway located at 112m.

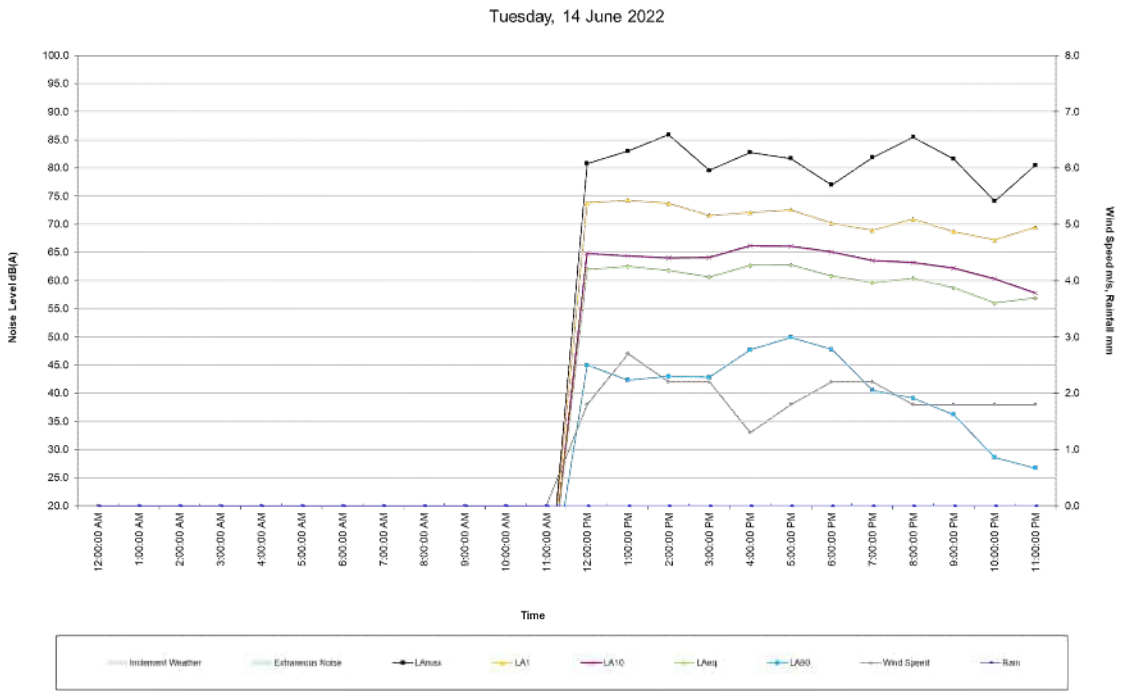
Attended Measurement #2: Monday, 20 June 2022

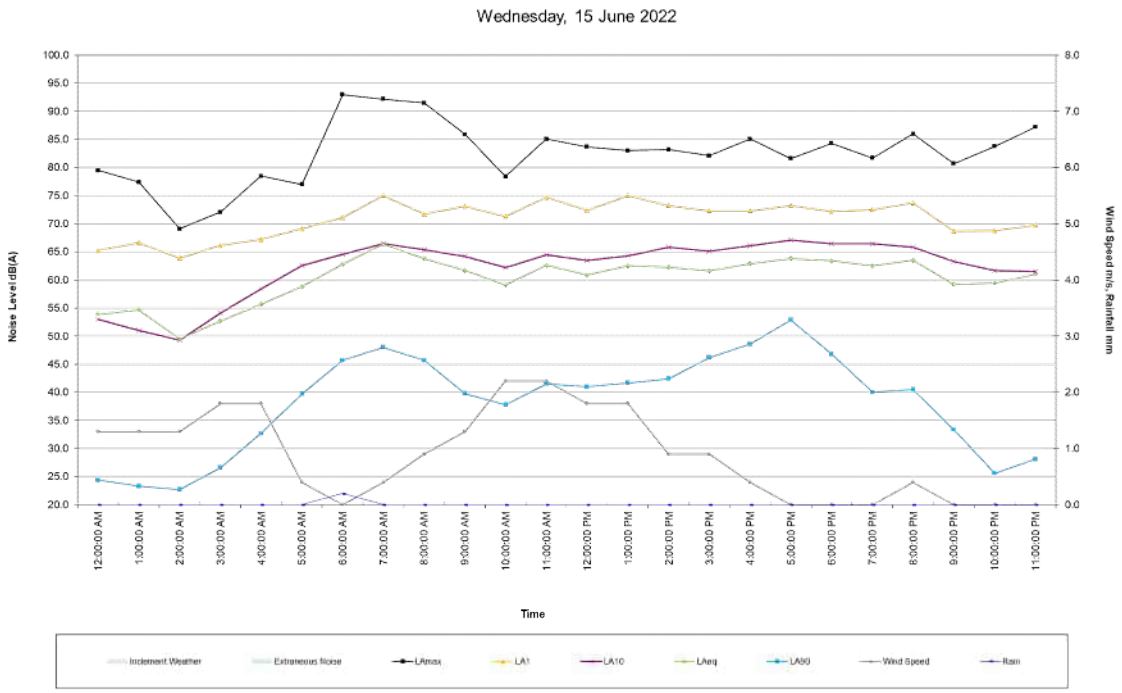
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
2:50 PM	3:05 PM	Attended	61.0	38.0	81.4	74.3	62.1	46.6
2:00 PM	3:00 PM	Logger	64.1	36.9	82.7	75.6	66.8	47.6

Comments

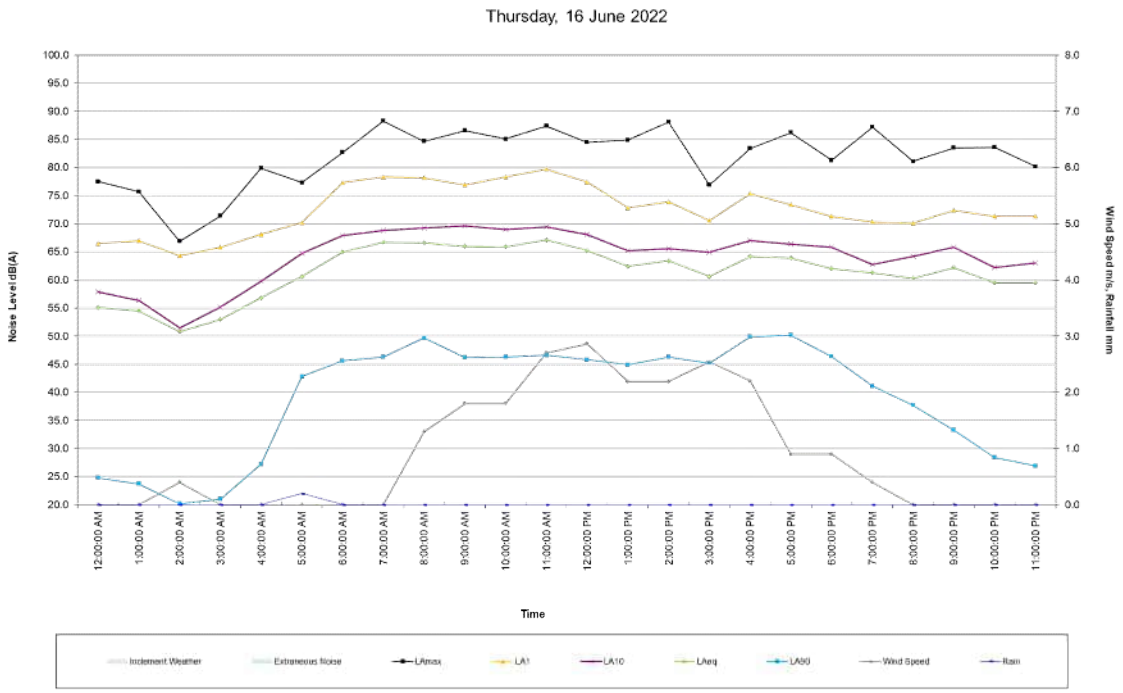
Transient traffic noise from Oakley Pittsworth Road located at 16m is the dominant noise source. There is steady state traffic noise from Gore Highway located at 112m.

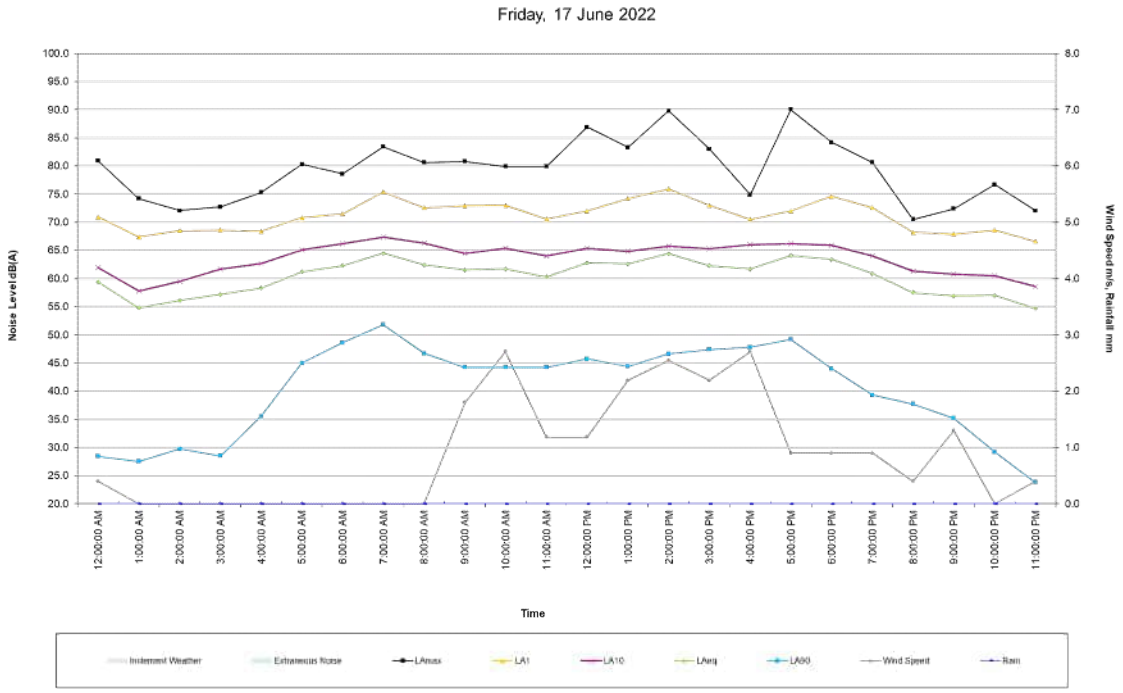
Site Noise and Weather Conditions



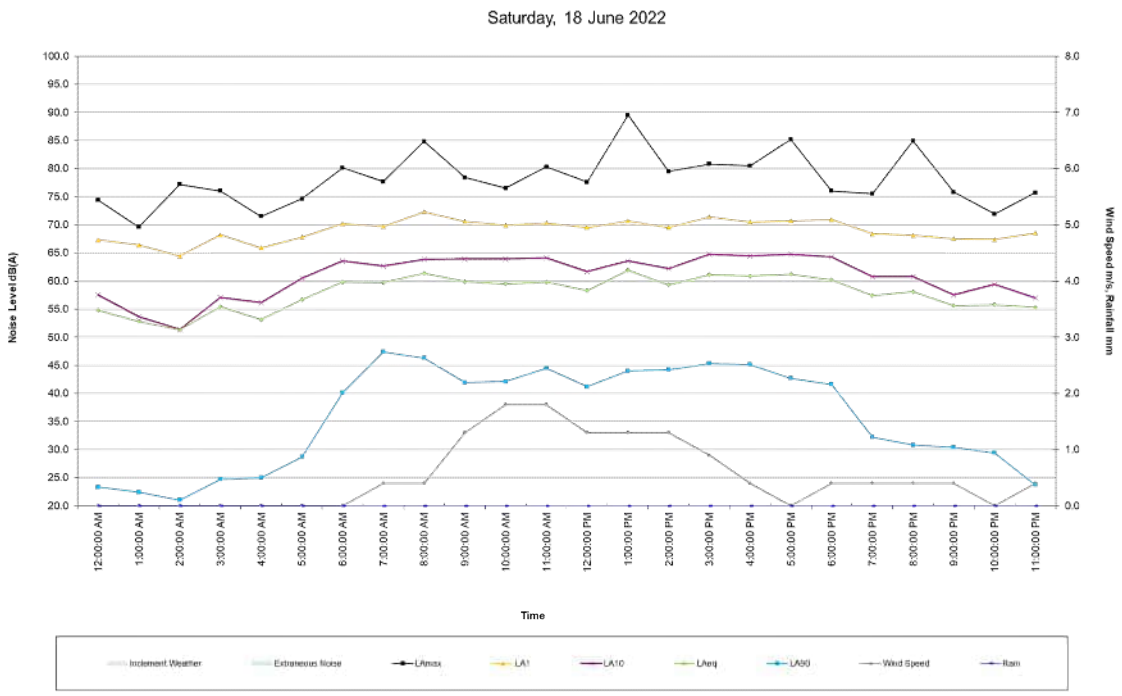


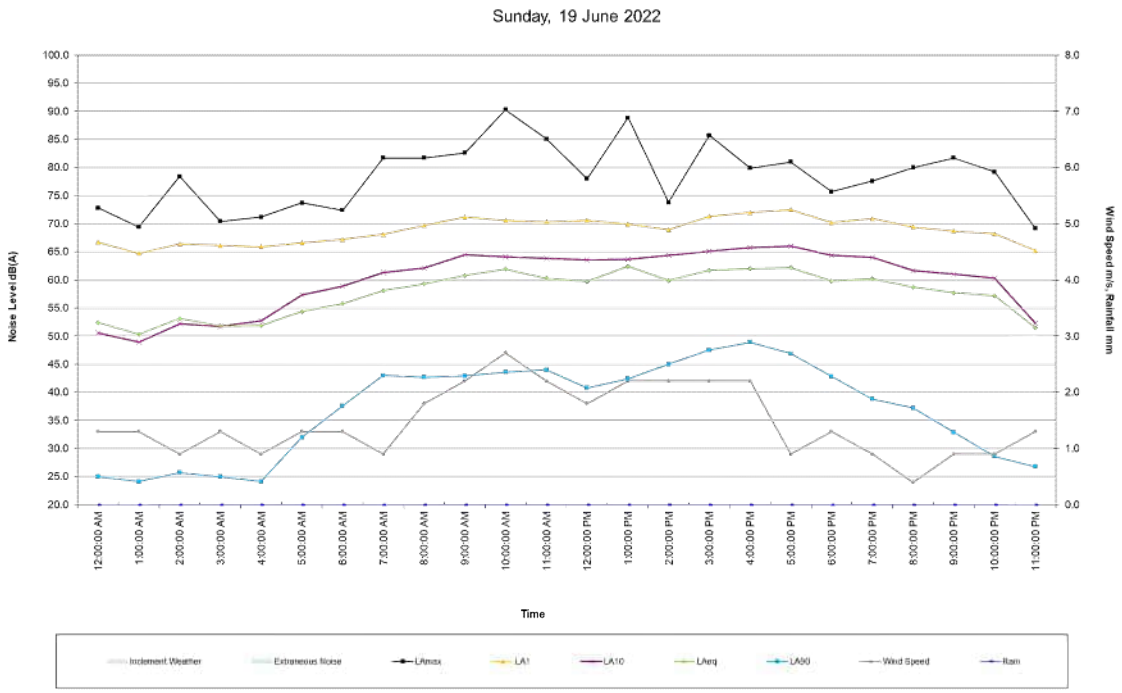
Site Noise and Weather Conditions



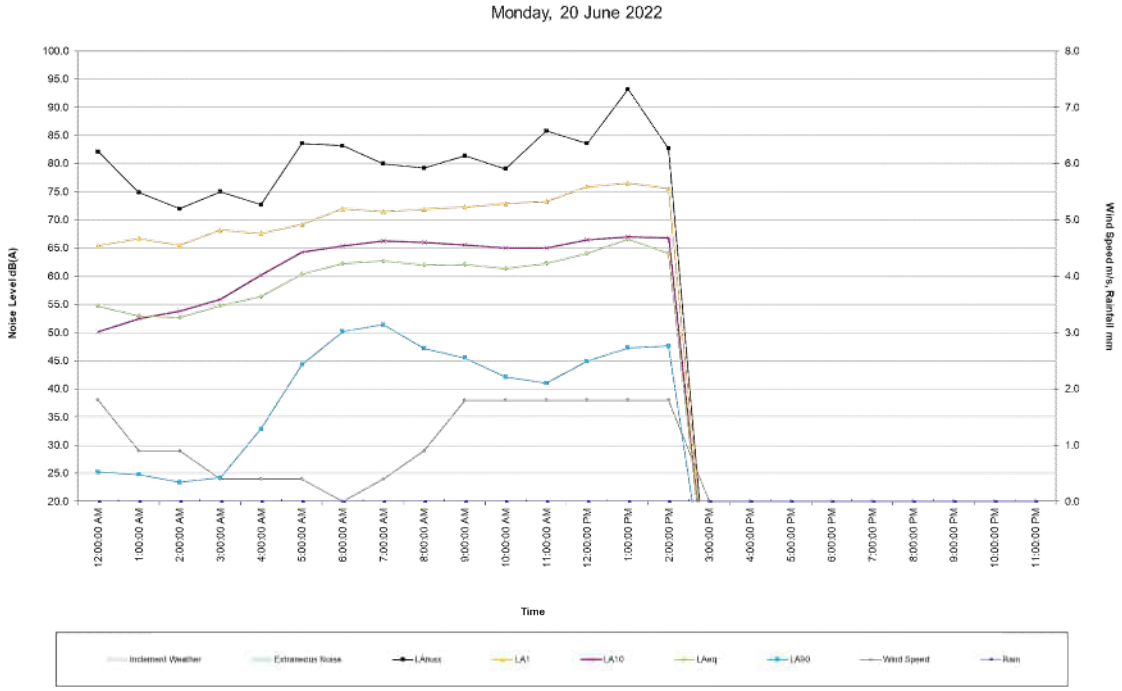


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
14/06/22 12:00	62.0	80.8	73.8	64.8	45.0	36.9	1.8	4.9	N	19.9	59	967	0.0
14/06/22 13:00	62.5	83.0	74.3	64.4	42.3	31.9	2.7	5.4	NNE	20.3	57	966	0.0
14/06/22 14:00	61.8	85.9	73.7	64.0	43.0	34.6	2.2	11.2	N	20.6	54	966	0.0
14/06/22 15:00	60.6	79.6	71.6	64.1	42.8	34.6	2.2	5.8	NNE	19.5	63	966	0.0
14/06/22 16:00	62.7	82.8	72.1	66.2	47.7	38.0	1.3	4.9	ENE	16.1	75	967	0.0
14/06/22 17:00	62.8	81.7	72.6	66.1	49.9	42.7	1.8	4.0	ENE	14.7	83	967	0.0
14/06/22 18:00	60.8	77.0	70.2	65.1	47.8	42.1	2.2	4.0	ENE	14.3	85	968	0.0
14/06/22 19:00	59.6	81.9	68.9	63.6	40.5	33.7	2.2	4.9	ENE	13.7	87	968	0.0
14/06/22 20:00	60.4	85.5	70.9	63.2	39.1	31.5	1.8	4.5	NE	13.4	88	968	0.0
14/06/22 21:00	58.7	81.6	68.7	62.2	36.2	29.0	1.8	4.0	ENE	12.8	91	968	0.0
14/06/22 22:00	56.0	74.1	67.2	60.3	28.6	24.6	1.8	4.0	NE	12.7	92	969	0.0
14/06/22 23:00	56.9	80.5	69.5	57.8	26.7	23.6	1.8	4.0	NE	12.9	91	968	0.0
15/06/22 0:00	53.9	79.5	65.2	53.0	24.4	21.5	1.3	3.6	NE	12.6	91	968	0.0
15/06/22 1:00	54.7	77.4	66.6	51.0	23.3	20.8	1.3	3.6	ENE	11.9	93	968	0.0
15/06/22 2:00	49.5	69.1	63.9	49.3	22.7	20.8	1.3	4.0	ENE	11.4	94	968	0.0
15/06/22 3:00	52.7	72.1	66.1	54.1	26.6	23.9	1.8	4.0	ENE	10.9	95	968	0.0
15/06/22 4:00	55.7	78.5	67.2	58.4	32.7	26.6	1.8	4.0	ENE	11.2	96	968	0.0
15/06/22 5:00	58.8	77.0	69.1	62.6	39.7	29.0	0.4	3.1	NE	10.8	96	968	0.0
15/06/22 6:00	62.8	93.0	71.1	64.6	45.7	36.9	0.0	2.2	ENE	10.9	96	968	0.2
15/06/22 7:00	66.4	92.2	75.0	66.5	48.0	39.7	0.4	2.7	NNE	12.9	95	969	0.0
15/06/22 8:00	63.8	91.5	71.7	65.4	45.7	36.7	0.9	2.7	NNW	15.8	87	969	0.0
15/06/22 9:00	61.7	85.9	73.1	64.2	39.8	30.2	1.3	3.6	N	17.6	78	969	0.0
15/06/22 10:00	59.1	78.4	71.3	62.2	37.8	32.0	2.2	5.8	NNW	19.0	68	968	0.0
15/06/22 11:00	62.6	85.1	74.7	64.5	41.5	32.2	2.2	4.5	NNW	19.9	59	967	0.0
15/06/22 12:00	60.9	83.7	72.4	63.5	41.0	32.7	1.8	4.9	NW	20.5	55	966	0.0
15/06/22 13:00	62.5	83.0	75.0	64.3	41.7	34.0	1.8	5.4	WNW	20.5	56	965	0.0
15/06/22 14:00	62.3	83.2	73.2	65.8	42.4	32.8	0.9	3.6	WNW	19.4	59	965	0.0
15/06/22 15:00	61.6	82.1	72.3	65.1	46.2	33.2	0.9	3.6	W	20.3	52	965	0.0
15/06/22 16:00	62.9	85.1	72.3	66.1	48.6	37.3	0.4	1.8	WSW	15.9	66	965	0.0
15/06/22 17:00	63.8	81.6	73.2	67.1	52.9	44.3	0.0	1.3	WSW	12.9	76	966	0.0
15/06/22 18:00	63.4	84.3	72.2	66.5	46.8	38.0	0.0	0.9	WSW	11.2	79	966	0.0
15/06/22 19:00	62.5	81.7	72.5	66.5	40.0	28.3	0.0	1.3	SE	11.5	82	967	0.0
15/06/22 20:00	63.5	86.0	73.7	65.8	40.5	30.9	0.4	1.3	SE	11.6	85	967	0.0
15/06/22 21:00	59.2	80.7	68.7	63.3	33.4	25.3	0.0	0.9	SE	11.6	90	967	0.0
15/06/22 22:00	59.5	83.8	68.8	61.7	25.6	21.0	0.0	0.4	SE	10.1	92	967	0.0
15/06/22 23:00	61.0	87.2	69.8	61.5	28.1	23.1	0.0	0.9	SE	9.7	94	967	0.0
16/06/22 0:00	55.1	77.5	66.5	57.9	24.8	20.0	0.0	0.9	SE	11.6	96	967	0.0
16/06/22 1:00	54.5	75.7	67.0	56.3	23.7	20.6	0.0	1.3	ESE	12.3	95	966	0.0
16/06/22 2:00	50.8	66.9	64.3	51.5	20.2	18.3	0.4	2.7	NNE	12.9	94	966	0.0
16/06/22 3:00	53.0	71.4	65.8	55.2	21.0	18.2	0.0	1.3	N	11.7	92	965	0.0
16/06/22 4:00	56.8	79.9	68.1	59.8	27.2	19.4	0.0	1.3	N	8.1	94	965	0.0
16/06/22 5:00	60.6	77.3	70.2	64.7	42.8	29.7	0.0	0.0	---	7.8	96	966	0.2
16/06/22 6:00	65.0	82.7	77.3	67.9	45.6	37.5	0.0	0.9	N	7.6	96	966	0.0
16/06/22 7:00	66.7	88.3	78.3	68.8	46.3	36.3	0.0	0.9	N	12.5	97	966	0.0
16/06/22 8:00	66.6	84.7	78.2	69.3	49.7	40.8	1.3	3.1	WNW	15.2	87	967	0.0
16/06/22 9:00	66.0	86.6	76.9	69.6	46.2	35.8	1.8	3.6	WNW	17.7	74	966	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
16/06/22 10:00	65.9	85.1	78.3	69.0	46.3	35.5	1.8	4.9	W	19.9	62	966	0.0
16/06/22 11:00	67.1	87.4	79.7	69.4	46.6	38.5	2.7	5.8	WSW	20.1	59	964	0.0
16/06/22 12:00	65.2	84.5	77.4	68.1	45.8	37.6	2.9	6.7	WSW	20.4	56	963	0.0
16/06/22 13:00	62.4	84.9	72.8	65.2	44.9	36.8	2.2	6.3	SW	20.5	48	963	0.0
16/06/22 14:00	63.4	88.1	73.9	65.6	46.3	36.3	2.2	6.7	SW	20.8	46	963	0.0
16/06/22 15:00	60.6	76.9	70.6	64.9	45.2	36.6	2.5	7.2	SW	19.2	46	963	0.0
16/06/22 16:00	64.2	83.4	75.4	67.0	49.9	39.5	2.2	4.9	SW	16.0	54	963	0.0
16/06/22 17:00	63.9	86.2	73.4	66.4	50.2	40.2	0.9	2.2	SW	12.8	61	964	0.0
16/06/22 18:00	62.0	81.3	71.3	65.8	46.4	32.3	0.9	1.8	SSW	11.2	66	964	0.0
16/06/22 19:00	61.3	87.2	70.3	62.8	41.1	26.5	0.4	1.3	SSW	7.9	73	965	0.0
16/06/22 20:00	60.3	81.1	70.1	64.2	37.7	28.1	0.0	0.4	SSW	6.8	77	965	0.0
16/06/22 21:00	62.2	83.5	72.4	65.8	33.3	26.1	0.0	1.3	SSW	5.9	80	965	0.0
16/06/22 22:00	59.5	83.6	71.3	62.2	28.4	20.5	0.0	0.4	SSW	5.1	80	965	0.0
16/06/22 23:00	59.5	80.2	71.3	63.0	26.9	21.6	0.0	0.9	SSW	5.7	79	965	0.0
17/06/22 0:00	59.4	80.9	70.9	61.9	28.4	21.1	0.4	1.8	SSW	4.3	83	965	0.0
17/06/22 1:00	54.8	74.2	67.4	57.8	27.5	24.3	0.0	1.3	SSW	4.4	82	965	0.0
17/06/22 2:00	56.1	72.1	68.5	59.5	29.7	26.7	0.0	0.9	SSW	4.9	80	964	0.0
17/06/22 3:00	57.2	72.7	68.6	61.7	28.5	26.2	0.0	1.8	SSW	3.7	84	964	0.0
17/06/22 4:00	58.3	75.3	68.4	62.7	35.5	26.2	0.0	0.9	SSW	3.6	86	964	0.0
17/06/22 5:00	61.2	80.3	70.8	65.1	45.0	36.9	0.0	0.9	SSW	4.0	87	965	0.0
17/06/22 6:00	62.3	78.6	71.5	66.2	48.6	42.6	0.0	0.9	SSW	3.9	87	965	0.0
17/06/22 7:00	64.5	83.4	75.4	67.4	51.8	45.8	0.0	0.4	SSW	10.0	82	966	0.0
17/06/22 8:00	62.4	80.6	72.6	66.3	46.7	38.8	0.0	2.2	S	14.8	61	966	0.0
17/06/22 9:00	61.5	80.8	72.9	64.5	44.2	35.1	1.8	4.0	SSW	16.1	56	966	0.0
17/06/22 10:00	61.7	79.9	73.0	65.4	44.2	36.9	2.7	5.4	SSW	17.3	51	965	0.0
17/06/22 11:00	60.3	79.9	70.6	64.0	44.2	35.6	1.2	6.7	SSW	17.6	49	964	0.0
17/06/22 12:00	62.8	86.9	72.0	65.4	45.7	35.3	1.2	5.8	SSW	18.2	45	963	0.0
17/06/22 13:00	62.6	83.3	74.2	64.8	44.4	37.8	2.2	6.7	SW	18.8	44	963	0.0
17/06/22 14:00	64.4	89.8	75.9	65.7	46.6	37.5	2.5	6.3	SW	18.3	46	963	0.0
17/06/22 15:00	62.3	83.0	73.0	65.3	47.4	35.4	2.2	5.8	SW	17.2	52	963	0.0
17/06/22 16:00	61.7	74.9	70.5	66.0	47.8	39.2	2.7	5.8	SSW	14.8	60	964	0.0
17/06/22 17:00	64.1	90.0	72.0	66.2	49.2	40.2	0.9	2.2	S	12.3	68	965	0.0
17/06/22 18:00	63.4	84.2	74.6	65.9	44.0	34.3	0.9	2.7	SSW	10.8	72	966	0.0
17/06/22 19:00	60.9	80.6	72.6	64.0	39.3	29.4	0.9	1.8	SSW	9.7	76	966	0.0
17/06/22 20:00	57.5	70.5	68.2	61.3	37.7	26.5	0.4	2.2	SSE	8.7	81	966	0.0
17/06/22 21:00	56.9	72.4	67.9	60.8	35.2	29.5	1.3	3.6	S	9.0	80	966	0.0
17/06/22 22:00	57.0	76.7	68.6	60.5	29.2	21.9	0.0	0.9	S	6.9	86	966	0.0
17/06/22 23:00	54.7	72.1	66.6	58.6	23.8	19.9	0.4	1.3	SSE	7.3	84	966	0.0
18/06/22 0:00	54.8	74.4	67.3	57.5	23.3	19.2	0.0	1.3	SE	5.3	90	966	0.0
18/06/22 1:00	52.8	69.6	66.4	53.6	22.4	18.9	0.0	0.9	SE	3.5	89	966	0.0
18/06/22 2:00	51.3	77.2	64.4	51.4	21.0	18.4	0.0	0.0	---	2.6	91	966	0.0
18/06/22 3:00	55.4	76.0	68.2	57.1	24.7	20.8	0.0	0.4	SE	2.6	93	966	0.0
18/06/22 4:00	53.1	71.5	65.9	56.2	25.0	21.7	0.0	0.4	SE	2.7	94	966	0.0
18/06/22 5:00	56.7	74.6	67.8	60.5	28.7	22.6	0.0	0.9	SE	2.4	93	966	0.0
18/06/22 6:00	59.8	80.1	70.2	63.6	40.1	27.7	0.0	0.4	SE	3.3	94	966	0.0
18/06/22 7:00	59.7	77.7	69.7	62.7	47.4	38.5	0.4	1.3	SE	8.3	93	967	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
18/06/22 8:00	61.4	84.8	72.3	63.8	46.3	35.6	0.4	2.7	SE	12.4	76	968	0.0
18/06/22 9:00	59.9	78.4	70.6	63.9	41.9	32.7	1.3	3.6	S	14.4	71	968	0.0
18/06/22 10:00	59.5	76.5	69.9	63.9	42.1	34.0	1.8	4.9	S	16.2	62	967	0.0
18/06/22 11:00	59.8	80.3	70.3	64.1	44.5	37.4	1.8	4.5	SSW	17.0	58	966	0.0
18/06/22 12:00	58.3	77.6	69.5	61.7	41.2	33.6	1.3	4.0	SSW	18.1	53	965	0.0
18/06/22 13:00	61.9	89.5	70.7	63.6	44.0	33.2	1.3	3.6	SSW	18.3	45	965	0.0
18/06/22 14:00	59.3	79.5	69.5	62.2	44.2	34.4	1.3	6.3	SSW	18.0	45	965	0.0
18/06/22 15:00	61.1	80.8	71.4	64.7	45.3	35.2	0.9	3.6	S	17.8	47	965	0.0
18/06/22 16:00	60.9	80.5	70.5	64.5	45.1	31.2	0.4	2.2	S	15.6	53	966	0.0
18/06/22 17:00	61.2	85.2	70.7	64.7	42.7	33.6	0.0	0.9	S	10.5	67	967	0.0
18/06/22 18:00	60.2	76.0	70.9	64.3	41.6	31.8	0.4	1.3	S	9.6	71	967	0.0
18/06/22 19:00	57.4	75.5	68.4	60.8	32.2	24.1	0.4	2.2	SSW	7.3	76	967	0.0
18/06/22 20:00	58.1	84.9	68.1	60.8	30.8	23.2	0.4	1.8	SSW	7.1	84	968	0.0
18/06/22 21:00	55.6	75.8	67.5	57.5	30.4	24.5	0.4	1.3	SE	7.0	82	968	0.0
18/06/22 22:00	55.8	71.9	67.4	59.4	29.4	24.4	0.0	0.9	SE	5.8	86	968	0.0
18/06/22 23:00	55.3	75.7	68.5	57.0	23.7	20.5	0.4	1.3	SE	5.7	89	968	0.0
19/06/22 0:00	52.4	72.8	66.7	50.6	25.0	20.6	1.3	2.7	SSE	6.9	86	968	0.0
19/06/22 1:00	50.3	69.4	64.7	48.9	24.1	21.1	1.3	2.2	SE	5.5	89	967	0.0
19/06/22 2:00	53.1	78.4	66.4	52.2	25.7	21.6	0.9	1.8	ESE	5.1	90	967	0.0
19/06/22 3:00	51.8	70.4	66.1	51.7	25.0	20.7	1.3	1.8	ESE	6.0	91	967	0.0
19/06/22 4:00	51.9	71.2	65.9	52.7	24.1	21.3	0.9	1.8	ESE	5.3	93	967	0.0
19/06/22 5:00	54.4	73.7	66.6	57.3	32.0	27.1	1.3	2.7	ESE	6.6	93	967	0.0
19/06/22 6:00	55.8	72.4	67.2	58.9	37.6	29.7	1.3	2.2	SSE	5.7	94	968	0.0
19/06/22 7:00	58.1	81.7	68.1	61.3	43.0	35.8	0.9	1.8	SE	10.6	90	968	0.0
19/06/22 8:00	59.3	81.7	69.7	62.1	42.7	35.5	1.8	4.5	SSE	13.8	81	968	0.0
19/06/22 9:00	60.8	82.6	71.2	64.5	42.9	32.0	2.2	4.5	SE	16.3	71	969	0.0
19/06/22 10:00	61.9	90.3	70.6	64.1	43.6	35.8	2.7	5.4	SE	17.8	66	968	0.0
19/06/22 11:00	60.3	85.1	70.3	63.8	44.0	35.1	2.2	4.5	ESE	18.1	65	967	0.0
19/06/22 12:00	59.7	78.0	70.6	63.6	40.8	32.5	1.8	4.5	SE	19.9	59	966	0.0
19/06/22 13:00	62.4	88.9	69.9	63.7	42.4	34.2	2.2	5.4	SSE	19.3	62	966	0.0
19/06/22 14:00	59.9	73.8	68.9	64.4	45.0	33.5	2.2	4.9	SSE	18.4	62	966	0.0
19/06/22 15:00	61.7	85.7	71.3	65.1	47.5	35.8	2.2	5.8	SE	18.0	64	966	0.0
19/06/22 16:00	62.0	79.9	72.0	65.7	48.9	36.1	2.2	4.9	SE	15.8	69	966	0.0
19/06/22 17:00	62.2	81.0	72.5	66.0	46.9	40.4	0.9	3.1	E	13.2	78	966	0.0
19/06/22 18:00	59.8	75.7	70.2	64.4	42.8	37.0	1.3	3.1	ESE	12.7	84	966	0.0
19/06/22 19:00	60.2	77.6	70.9	64.0	38.8	29.8	0.9	3.6	ESE	11.0	87	967	0.0
19/06/22 20:00	58.7	80.0	69.4	61.7	37.2	27.5	0.4	1.3	ESE	9.5	92	967	0.0
19/06/22 21:00	57.7	81.7	68.7	61.0	32.9	24.0	0.9	1.8	SSE	9.7	90	967	0.0
19/06/22 22:00	57.2	79.2	68.2	60.3	28.6	23.0	0.9	2.7	SE	11.1	88	968	0.0
19/06/22 23:00	51.5	69.2	65.2	52.3	26.8	24.2	1.3	3.1	SE	11.1	91	967	0.0
20/06/22 0:00	54.7	82.1	65.4	50.1	25.2	21.6	1.8	4.0	SE	11.0	90	966	0.0
20/06/22 1:00	53.0	74.9	66.7	52.5	24.8	21.8	0.9	2.2	SE	10.2	91	966	0.0
20/06/22 2:00	52.7	72.0	65.5	53.8	23.4	20.9	0.9	2.7	SE	9.9	93	966	0.0
20/06/22 3:00	54.8	75.0	68.2	55.9	24.2	21.1	0.4	1.8	SE	9.5	94	965	0.0
20/06/22 4:00	56.4	72.7	67.6	60.2	32.9	24.8	0.4	1.8	SE	9.6	93	965	0.0
20/06/22 5:00	60.4	83.6	69.2	64.3	44.3	33.0	0.4	1.3	ESE	8.9	92	966	0.0
20/06/22 6:00	62.3	83.2	72.0	65.4	50.2	43.7	0.0	1.3	ESE	8.8	94	966	0.0
20/06/22 7:00	62.7	80.0	71.5	66.3	51.4	44.0	0.4	1.3	ESE	10.4	93	967	0.0
20/06/22 8:00	62.0	79.2	71.9	66.0	47.2	39.3	0.9	3.1	SE	12.9	86	967	0.0
20/06/22 9:00	62.1	81.4	72.3	65.6	45.5	36.6	1.8	4.0	SSE	15.8	75	967	0.0
20/06/22 10:00	61.4	79.1	72.9	65.0	42.1	34.9	1.8	4.0	SE	17.8	63	966	0.0
20/06/22 11:00	62.3	85.8	73.3	65.0	41.0	34.4	1.8	4.5	ESE	19.2	60	965	0.0
20/06/22 12:00	64.1	83.6	75.9	66.5	44.9	34.8	1.8	4.5	SSE	19.7	53	964	0.0
20/06/22 13:00	66.6	93.2	76.5	67.0	47.3	38.8	1.8	4.5	SSE	19.7	53	964	0.0
20/06/22 14:00	64.1	82.7	75.6	66.8	47.6	36.9	1.8	4.5	SSE	19.7	53	964	0.0

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP6

Address	638 Brookstead Norwin Road	**Monitoring Start**	14/06/2022	**Dominant Road**	Gore Highway
Suburb	Brookstead	**Monitoring Finish**	20/06/2022	**Dist. to Road (m)**	63
District	Toowoomba	**Mic. Height (m)**	1.8	**Start Cal. (dB(A))**	94.0
Latitude	-27.754309°	**Instrument Type**	01dB Duo	**Post Cal. (dB(A))**	94.0
Longitude	151.450477°	**Monitor Serial**	12072	**Operator**	LAN
Lot No.	4RP838169	**Measurement**	Facade	**Sample Interval**	1 hour

Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
66.6	**66.6**	**69.8**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Tuesday, 14 June 2022	-^	-^	-^
Wednesday, 15 June 2022	67.4	66.9	70.4
Thursday, 16 June 2022	67.0	66.3	70.3
Friday, 17 June 2022	65.4	66.5	68.6
Saturday, 18 June 2022	64.0	64.7	66.4
Sunday, 19 June 2022	65.4	66.1	69.1
Monday, 20 June 2022	-^	-^	-^

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos

Attended Measurement Summary

Attended Measurement #1: Tuesday, 14 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
2:20 PM	2:35 PM	Attended	62.6	31.3	84.1	72.7	67.1	39.3
2:00 PM	3:00 PM	Logger	63.8	32.8	90.3	75.2	67.6	41.4

Comments

Traffic noise from Gore Highway is the dominant noise. Occasional dog barks occure close to the microphone. Resident's television audible during the measurement

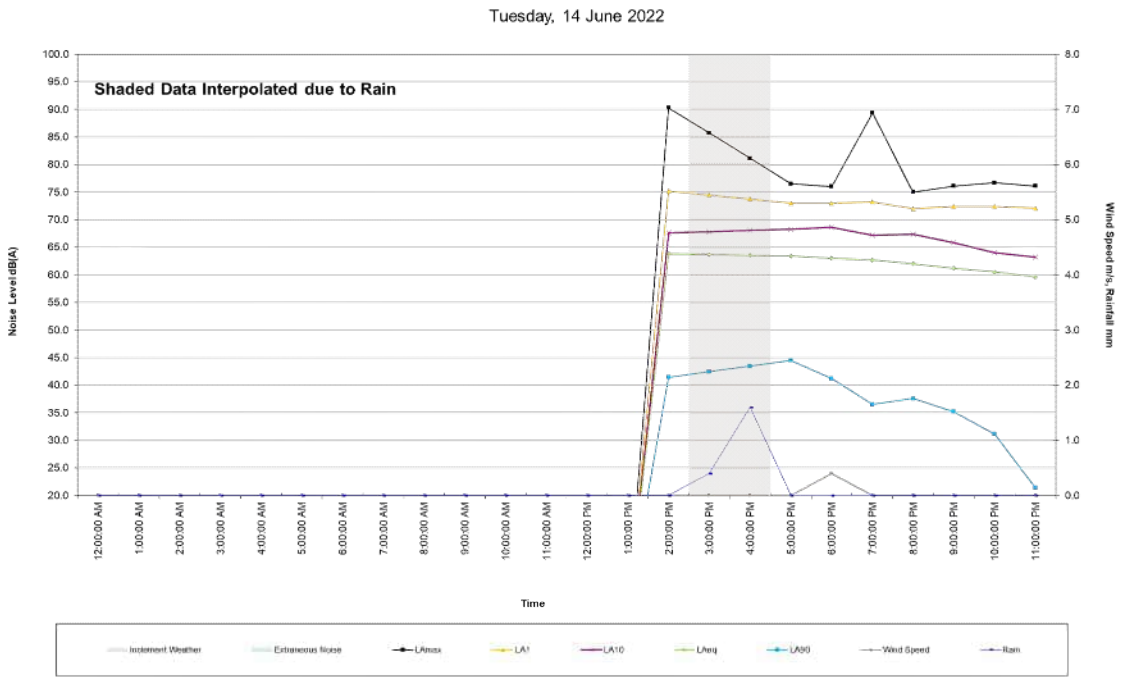
Attended Measurement #2: Monday, 20 June 2022

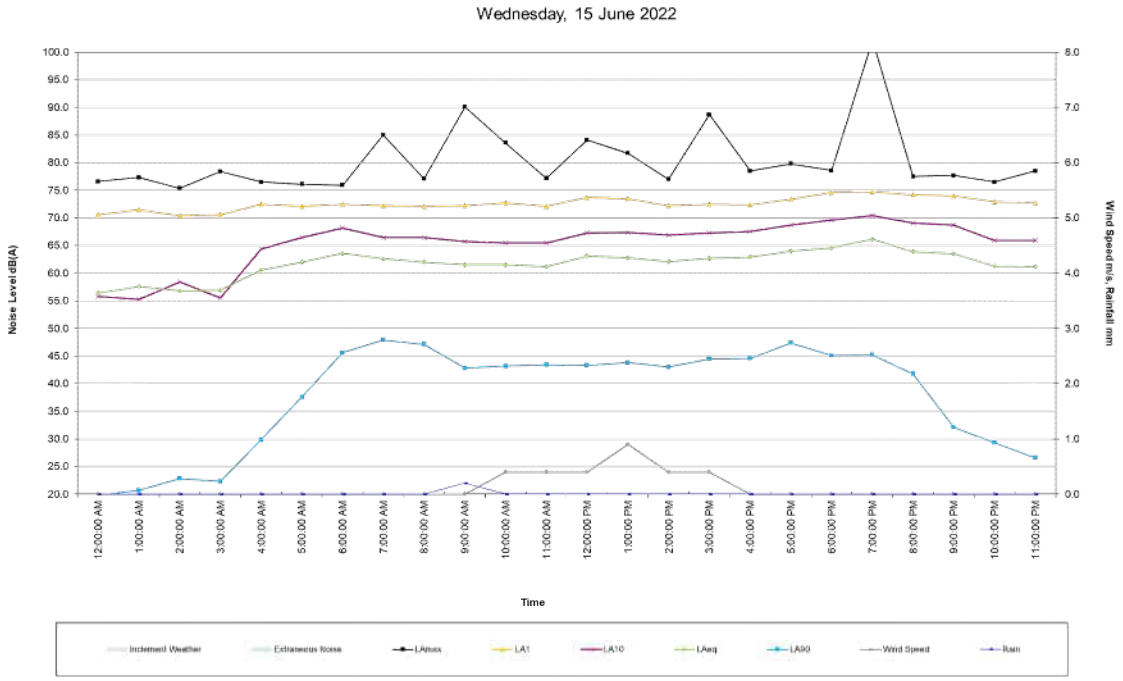
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
4:00 PM	4:15 PM	Attended	63.6	32.7	75.7	74.0	68.1	41.9
4:00 PM	4:15 PM	Logger	61.3	37.6	73.8	70.6	66.0	45.6

Comments

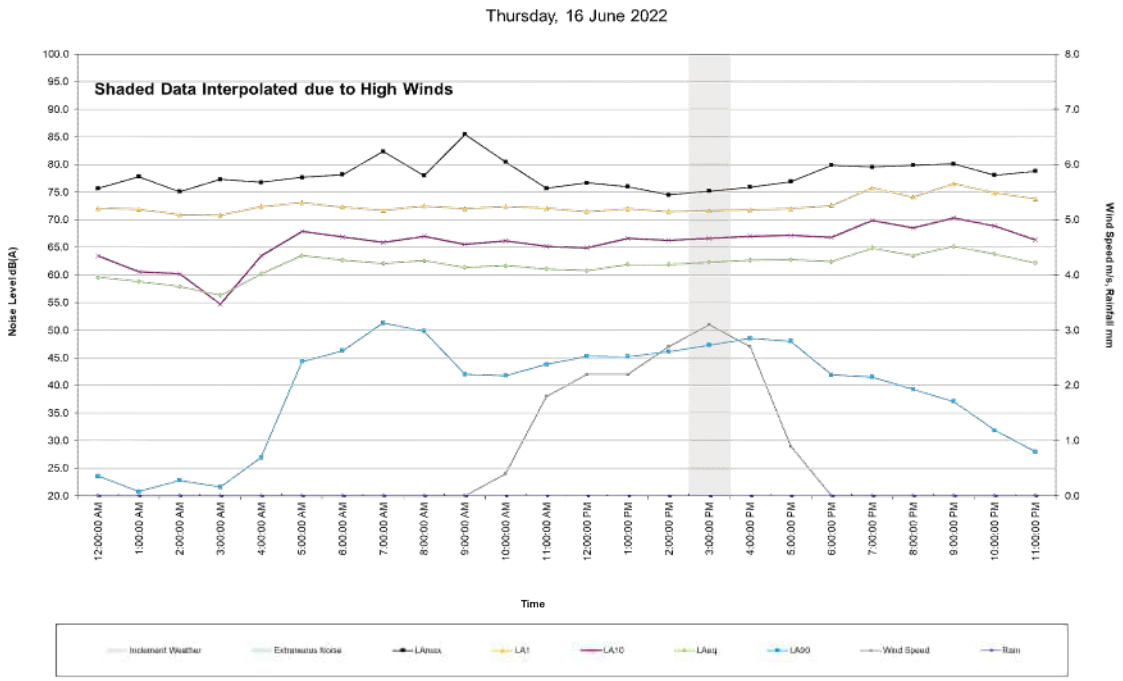
Traffic noise from Gore Highway is the dominant noise. Other noises include crows, distant bird noise and the resident's television set.

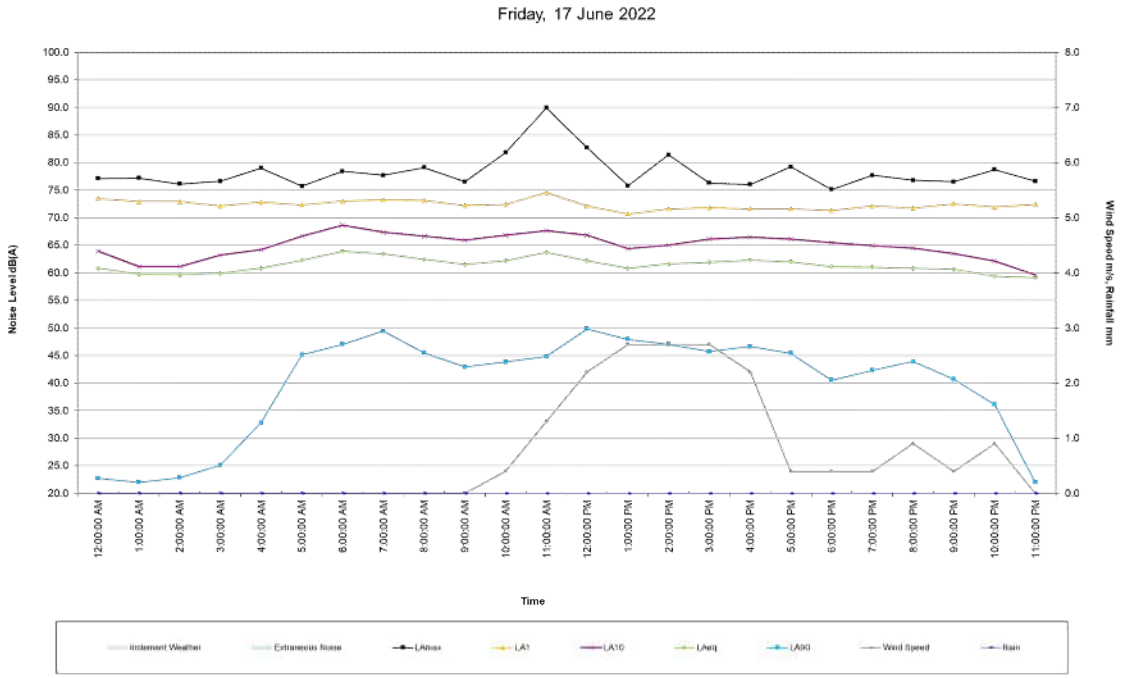
Site Noise and Weather Conditions



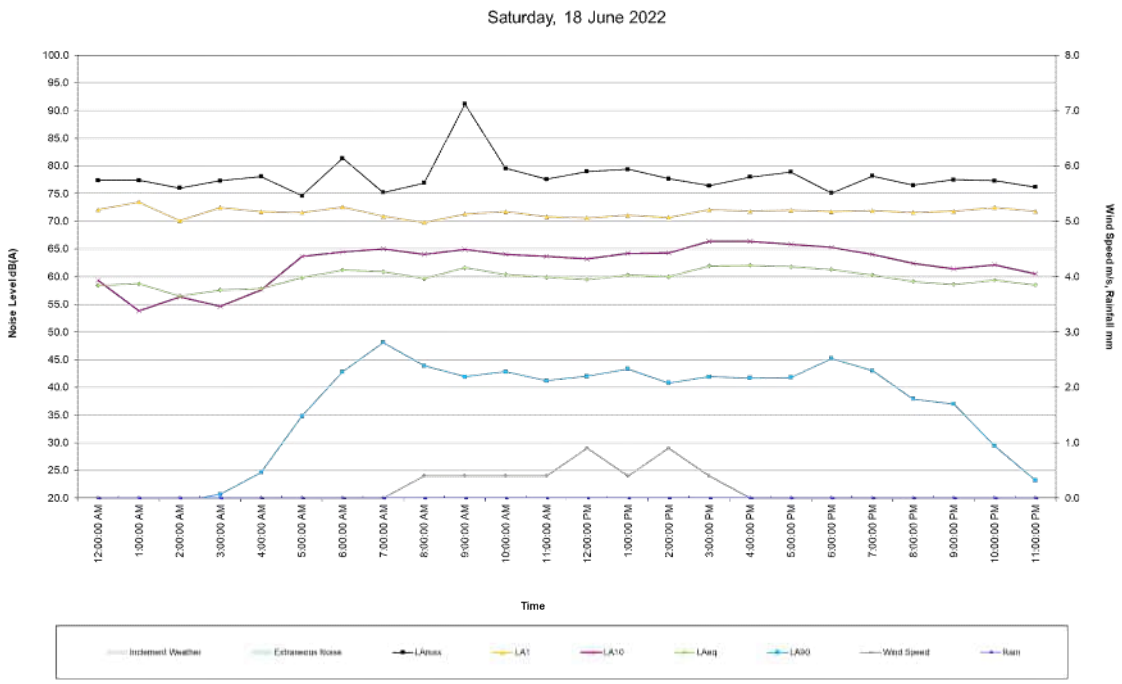


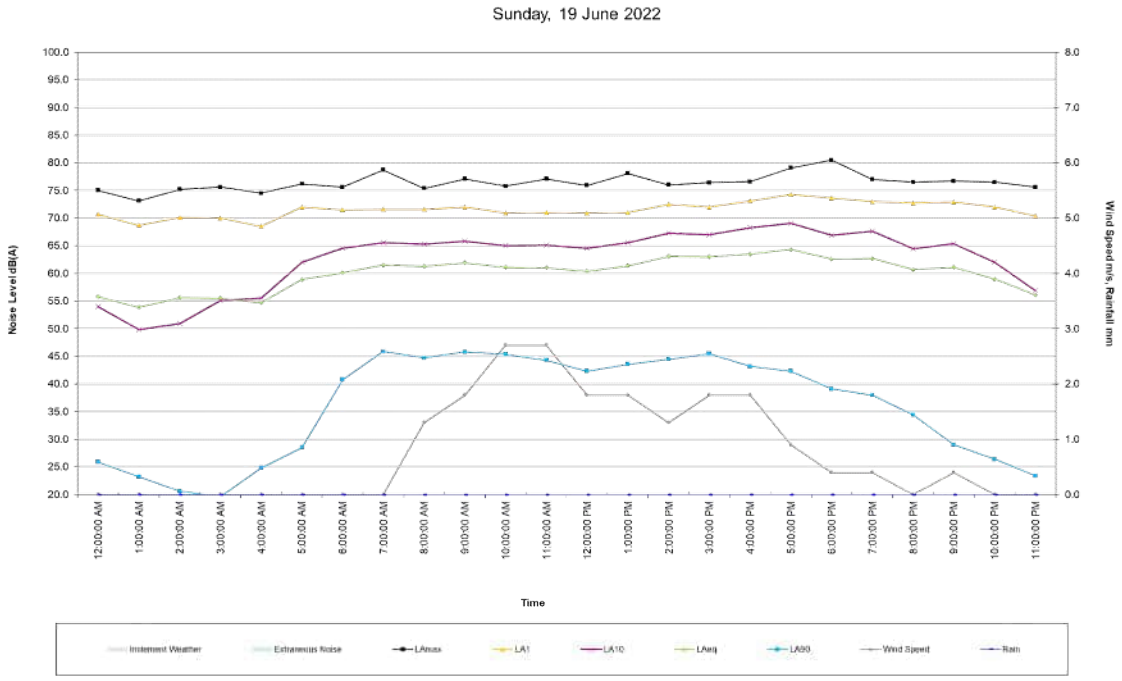
Site Noise and Weather Conditions



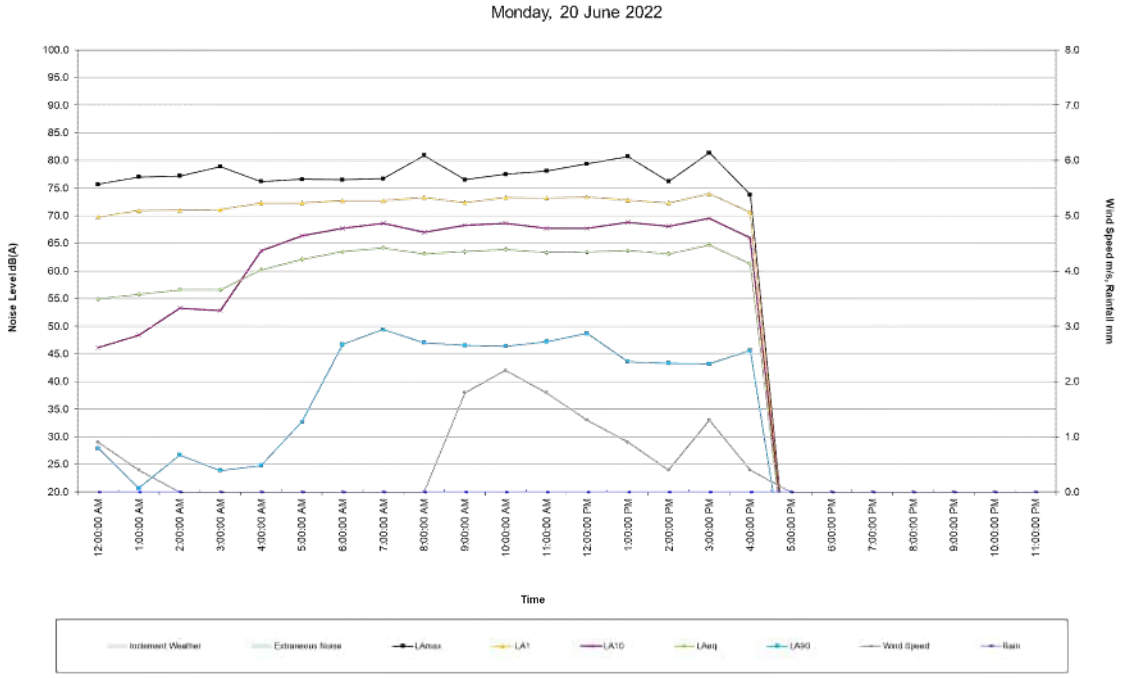


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
14/06/22 14:00	63.8	90.3	75.2	67.6	41.4	32.8	0.0	0.0	---	21.3	52	982	0.0
14/06/22 15:00	63.7	85.7	74.5	67.8	42.4	31.9	0.0	5.4	W	19.8	54	982	0.4
14/06/22 16:00	63.5	81.1	73.7	68.1	43.5	30.9	0.0	2.2	WSW	18.4	56	982	1.6
14/06/22 17:00	63.4	76.5	73.0	68.3	44.5	30.0	0.0	1.3	N	15.2	69	982	0.0
14/06/22 18:00	63.0	76.0	73.0	68.6	41.2	34.3	0.4	2.2	N	16.1	72	984	0.0
14/06/22 19:00	62.7	89.4	73.2	67.2	36.5	27.5	0.0	1.3	N	13.7	75	984	0.0
14/06/22 20:00	62.0	75.0	72.0	67.4	37.6	28.8	0.0	0.0	---	10.4	85	984	0.0
14/06/22 21:00	61.2	76.1	72.4	65.8	35.2	20.9	0.0	0.0	---	10.2	86	984	0.0
14/06/22 22:00	60.5	76.7	72.4	64.0	31.1	21.8	0.0	0.0	---	8.2	86	984	0.0
14/06/22 23:00	59.6	76.1	72.1	63.2	21.4	19.1	0.0	0.0	---	7.7	89	984	0.0
15/06/22 0:00	56.4	76.6	70.6	55.8	19.7	18.9	0.0	0.0	---	8.3	90	983	0.0
15/06/22 1:00	57.6	77.3	71.5	55.3	20.7	19.4	0.0	0.0	---	7.8	90	983	0.0
15/06/22 2:00	56.8	75.4	70.4	58.4	22.8	20.5	0.0	0.0	---	6.9	91	983	0.0
15/06/22 3:00	56.9	78.4	70.6	55.5	22.3	21.2	0.0	0.0	---	5.6	91	983	0.0
15/06/22 4:00	60.5	76.5	72.5	64.4	29.8	21.9	0.0	0.0	---	5.6	91	983	0.0
15/06/22 5:00	62.0	76.1	72.1	66.5	37.6	25.5	0.0	0.0	---	5.9	91	984	0.0
15/06/22 6:00	63.6	75.9	72.5	68.2	45.6	38.6	0.0	0.0	---	5.6	91	984	0.0
15/06/22 7:00	62.6	85.0	72.2	66.5	47.9	40.6	0.0	0.0	---	8.6	92	984	0.0
15/06/22 8:00	62.0	77.1	72.1	66.5	47.1	38.4	0.0	1.8	N	10.8	92	985	0.0
15/06/22 9:00	61.5	90.1	72.2	65.7	42.8	34.5	0.0	1.3	E	12.6	92	985	0.2
15/06/22 10:00	61.5	83.6	72.7	65.5	43.2	34.8	0.4	2.7	W	15.0	90	984	0.0
15/06/22 11:00	61.2	77.2	72.1	65.5	43.4	35.5	0.4	2.7	W	18.3	73	983	0.0
15/06/22 12:00	63.1	84.1	73.7	67.3	43.3	35.8	0.4	3.6	W	19.9	61	982	0.0
15/06/22 13:00	62.8	81.7	73.5	67.4	43.8	37.8	0.9	3.1	W	20.7	52	982	0.0
15/06/22 14:00	62.1	77.0	72.2	66.9	43.0	33.6	0.4	2.7	WSW	19.8	52	981	0.0
15/06/22 15:00	62.7	88.7	72.5	67.3	44.5	37.0	0.4	2.7	W	19.9	50	981	0.0
15/06/22 16:00	62.9	78.5	72.4	67.5	44.6	35.6	0.0	1.8	W	18.3	54	981	0.0
15/06/22 17:00	64.0	79.8	73.4	68.7	47.4	33.0	0.0	0.4	WSW	15.6	63	981	0.0
15/06/22 18:00	64.6	78.6	74.6	69.6	45.1	36.8	0.0	1.3	WSW	12.8	72	981	0.0
15/06/22 19:00	66.1	102.2	74.7	70.4	45.2	31.9	0.0	0.9	NNW	10.9	77	982	0.0
15/06/22 20:00	63.9	77.5	74.2	69.1	41.8	26.5	0.0	0.0	---	10.5	80	982	0.0
15/06/22 21:00	63.5	77.7	74.0	68.7	32.1	23.1	0.0	0.0	---	9.8	81	982	0.0
15/06/22 22:00	61.3	76.5	72.9	65.9	29.3	22.6	0.0	0.0	---	8.3	83	982	0.0
15/06/22 23:00	61.2	78.5	72.7	65.9	26.6	22.1	0.0	0.0	---	7.7	85	982	0.0
16/06/22 0:00	59.6	75.7	72.1	63.5	23.6	20.7	0.0	0.0	---	7.9	86	982	0.0
16/06/22 1:00	58.8	77.8	71.9	60.6	20.8	19.0	0.0	0.4	NNW	7.2	87	981	0.0
16/06/22 2:00	57.9	75.1	70.9	60.2	22.8	19.2	0.0	0.9	WNW	6.8	89	981	0.0
16/06/22 3:00	56.3	77.3	70.8	54.7	21.6	20.2	0.0	0.0	---	5.4	89	981	0.0
16/06/22 4:00	60.2	76.8	72.4	63.5	26.9	22.2	0.0	0.0	---	5.2	89	981	0.0
16/06/22 5:00	63.5	77.7	73.1	67.9	44.3	29.6	0.0	0.4	WNW	4.9	90	981	0.0
16/06/22 6:00	62.7	78.2	72.3	66.9	46.3	37.5	0.0	0.9	WNW	4.9	90	982	0.0
16/06/22 7:00	62.1	82.4	71.7	65.9	51.3	39.7	0.0	0.9	NNE	7.8	91	982	0.0
16/06/22 8:00	62.6	78.0	72.5	67.0	49.8	40.2	0.0	1.3	E	11.7	90	982	0.0
16/06/22 9:00	61.4	85.5	72.0	65.6	42.0	32.1	0.0	2.2	WSW	15.6	79	982	0.0
16/06/22 10:00	61.7	80.5	72.4	66.2	41.8	35.6	0.4	2.7	W	18.2	66	981	0.0
16/06/22 11:00	61.1	75.7	72.1	65.2	43.8	31.6	1.8	5.4	S	19.6	59	980	0.0
16/06/22 12:00	60.8	76.7	71.5	64.9	45.3	38.4	2.2	5.8	S	20.7	48	980	0.0
16/06/22 13:00	61.9	76.0	72.0	66.6	45.2	37.5	2.2	5.4	S	21.0	46	979	0.0
16/06/22 14:00	61.9	74.5	71.5	66.3	46.1	39.6	2.7	5.8	S	20.4	43	979	0.0
16/06/22 15:00	62.3	75.2	71.7	66.7	47.3	38.4	3.1	7.2	S	19.6	41	979	0.0
16/06/22 16:00	62.7	75.9	71.8	67.0	48.5	37.2	2.7	4.9	S	17.4	44	979	0.0
16/06/22 17:00	62.8	76.9	72.0	67.2	48.0	38.8	0.9	2.2	S	14.1	51	979	0.0
16/06/22 18:00	62.4	79.9	72.6	66.8	41.9	35.5	0.0	0.9	S	12.2	59	980	0.0
16/06/22 19:00	64.9	79.6	75.8	69.9	41.5	31.6	0.0	0.0	---	8.8	69	981	0.0
16/06/22 20:00	63.5	79.9	74.1	68.5	39.3	31.4	0.0	0.0	---	6.9	73	981	0.0
16/06/22 21:00	65.2	80.1	76.5	70.3	37.1	27.7	0.0	1.3	S	5.8	78	981	0.0
16/06/22 22:00	63.8	78.1	74.9	68.9	31.9	23.3	0.0	1.8	S	4.2	81	981	0.0
16/06/22 23:00	62.2	78.8	73.8	66.4	28.0	19.4	0.0	0.4	S	3.2	83	980	0.0
17/06/22 0:00	60.8	77.1	73.5	63.9	22.7	18.6	0.0	0.4	S	3.4	84	980	0.0
17/06/22 1:00	59.7	77.2	72.9	61.1	22.0	19.1	0.0	0.9	S	3.8	85	980	0.0
17/06/22 2:00	59.6	76.1	72.9	61.1	22.8	19.7	0.0	0.4	S	2.5	85	980	0.0
17/06/22 3:00	59.9	76.6	72.1	63.2	25.1	18.7	0.0	0.0	---	2.4	86	980	0.0
17/06/22 4:00	60.8	79.0	72.8	64.2	32.8	20.5	0.0	0.0	---	1.8	86	980	0.0
17/06/22 5:00	62.3	75.7	72.3	66.6	45.1	35.3	0.0	0.0	---	1.3	88	981	0.0
17/06/22 6:00	63.9	78.4	73.0	68.6	47.0	39.9	0.0	0.4	S	1.8	88	981	0.0
17/06/22 7:00	63.4	77.7	73.2	67.4	49.4	43.9	0.0	1.3	S	5.1	85	981	0.0
17/06/22 8:00	62.4	79.1	73.1	66.6	45.5	38.6	0.0	0.9	ESE	9.0	75	982	0.0
17/06/22 9:00	61.5	76.5	72.2	65.9	42.9	37.1	0.0	1.3	ESE	12.9	65	981	0.0
17/06/22 10:00	62.2	81.8	72.4	66.8	43.8	36.7	0.4	2.7	ESE	16.1	52	981	0.0
17/06/22 11:00	63.7	89.9	74.5	67.6	44.8	34.7	1.3	5.8	SE	18.0	48	980	0.0
17/06/22 12:00	62.2	82.7	72.1	66.8	49.8	42.9	2.2	5.4	SSE	18.9	43	980	0.0
17/06/22 13:00	60.8	75.8	70.7	64.4	47.9	39.7	2.7	5.4	S	18.8	44	979	0.0
17/06/22 14:00	61.6	81.4	71.6	65.0	47.0	39.9	2.7	5.4	SSE	18.7	45	979	0.0
17/06/22 15:00	61.9	76.3	71.8	66.1	45.7	37.9	2.7	4.9	S	17.8	48	979	0.0
17/06/22 16:00	62.3	76.0	71.6	66.5	46.6	37.6	2.2	4.9	S	15.8	53	980	0.0
17/06/22 17:00	62.0	79.2	71.6	66.1	45.4	33.2	0.4	1.3	S	12.9	61	980	0.0
17/06/22 18:00	61.1	75.1	71.3	65.5	40.5	30.3	0.4	1.3	S	11.7	67	981	0.0
17/06/22 19:00	61.0	77.7	72.1	64.9	42.3	32.6	0.4	1.3	S	10.6	68	981	0.0
17/06/22 20:00	60.8	76.8	71.7	64.5	43.9	29.8	0.9	1.8	S	8.9	73	982	0.0
17/06/22 21:00	60.6	76.5	72.5	63.5	40.7	32.7	0.4	2.2	S	8.4	77	982	0.0
17/06/22 22:00	59.4	78.7	71.9	62.1	36.1	20.3	0.9	2.7	SSE	8.0	79	982	0.0
17/06/22 23:00	59.1	76.6	72.4	59.6	22.0	19.4	0.0	0.9	SSE	6.2	81	982	0.0
18/06/22 0:00	58.4	77.4	72.1	59.3	19.5	18.4	0.0	0.9	SSE	4.7	84	982	0.0
18/06/22 1:00	58.7	77.4	73.5	53.8	19.0	18.3	0.0	1.3	SSE	3.8	84	982	0.0
18/06/22 2:00	56.5	76.0	70.1	56.3	19.3	18.1	0.0	0.0	---	2.8	87	982	0.0
18/06/22 3:00	57.6	77.3	72.5	54.6	20.7	18.9	0.0	0.0	---	1.3	87	982	0.0
18/06/22 4:00	57.8	78.1	71.7	57.6	24.6	20.7	0.0	0.0	---	2.2	88	982	0.0
18/06/22 5:00	59.8	74.6	71.6	63.7	34.8	24.4	0.0	0.4	SSE	2.7	90	982	0.0
18/06/22 6:00	61.2	81.4	72.6	64.5	42.8	30.4	0.0	0.0	---	1.7	90	983	0.0
18/06/22 7:00	60.9	75.2	70.9	65.0	48.1	38.6	0.0	0.9	SE	4.9	91	983	0.0
18/06/22 8:00	59.6	76.9	69.8	64.0	43.9	35.0	0.4	1.8	SE	8.8	84	983	0.0
18/06/22 9:00	61.6	91.2	71.3	64.9	41.9	31.2	0.4	2.2	SE	12.1	72	984	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
18/06/22 10:00	60.4	79.6	71.7	64.0	42.8	34.0	0.4	2.7	ESE	14.4	64	983	0.0
18/06/22 11:00	59.9	77.6	70.8	63.7	41.2	31.3	0.4	3.1	E	16.4	54	982	0.0
18/06/22 12:00	59.5	79.0	70.6	63.2	42.0	30.6	0.9	3.1	S	18.5	48	982	0.0
18/06/22 13:00	60.3	79.4	71.1	64.2	43.3	36.6	0.4	3.6	E	18.6	44	982	0.0
18/06/22 14:00	60.0	77.7	70.7	64.3	40.8	33.4	0.9	3.6	SE	18.4	44	982	0.0
18/06/22 15:00	61.9	76.4	72.1	66.4	41.9	31.0	0.4	2.7	E	17.8	46	981	0.0
18/06/22 16:00	62.0	78.0	71.8	66.4	41.7	28.1	0.0	3.1	E	16.7	49	981	0.0
18/06/22 17:00	61.8	78.9	72.0	65.8	41.8	31.2	0.0	1.3	E	13.1	59	982	0.0
18/06/22 18:00	61.3	75.1	71.7	65.3	45.2	33.4	0.0	0.4	E	10.9	68	983	0.0
18/06/22 19:00	60.3	78.2	71.9	64.0	43.0	30.0	0.0	1.8	N	8.7	77	983	0.0
18/06/22 20:00	59.1	76.5	71.6	62.4	37.9	23.7	0.0	1.3	N	7.9	80	983	0.0
18/06/22 21:00	58.6	77.5	71.8	61.4	37.0	25.2	0.0	0.9	N	6.4	78	984	0.0
18/06/22 22:00	59.4	77.3	72.5	62.1	29.4	21.7	0.0	0.0	---	4.6	79	983	0.0
18/06/22 23:00	58.5	76.2	71.8	60.5	23.2	20.2	0.0	0.4	N	5.2	85	984	0.0
19/06/22 0:00	55.8	75.0	70.7	54.0	25.9	23.3	0.0	0.4	N	4.1	84	984	0.0
19/06/22 1:00	53.9	73.1	68.7	49.8	23.2	21.0	0.0	0.0	---	4.4	85	983	0.0
19/06/22 2:00	55.6	75.2	70.1	50.9	20.6	18.9	0.0	1.3	N	3.2	86	983	0.0
19/06/22 3:00	55.5	75.6	70.0	55.1	19.6	18.8	0.0	0.0	---	3.3	88	983	0.0
19/06/22 4:00	54.7	74.5	68.5	55.5	24.8	23.1	0.0	1.3	E	3.8	89	983	0.0
19/06/22 5:00	58.9	76.2	72.0	62.0	28.5	20.9	0.0	0.0	---	3.6	89	984	0.0
19/06/22 6:00	60.1	75.6	71.5	64.6	40.8	29.5	0.0	0.9	E	3.3	89	984	0.0
19/06/22 7:00	61.5	78.7	71.6	65.6	45.9	36.1	0.0	1.8	E	8.4	90	984	0.0
19/06/22 8:00	61.3	75.4	71.6	65.3	44.7	36.9	1.3	4.0	ENE	12.8	76	984	0.0
19/06/22 9:00	61.9	77.1	72.0	65.8	45.8	40.5	1.8	4.5	ENE	15.8	68	984	0.0
19/06/22 10:00	61.1	75.8	70.9	65.0	45.4	40.7	2.7	5.8	NE	17.7	62	983	0.0
19/06/22 11:00	61.0	77.1	71.0	65.1	44.3	33.8	2.7	5.4	NNE	18.8	59	983	0.0
19/06/22 12:00	60.4	75.9	70.9	64.6	42.3	33.8	1.8	4.5	ENE	19.4	57	983	0.0
19/06/22 13:00	61.4	78.1	71.0	65.6	43.6	37.3	1.8	4.5	NE	19.8	54	982	0.0
19/06/22 14:00	63.1	76.0	72.5	67.3	44.5	38.1	1.3	4.5	ENE	19.9	54	982	0.0
19/06/22 15:00	63.0	76.4	72.0	67.0	45.5	36.8	1.8	4.0	NE	19.1	55	982	0.0
19/06/22 16:00	63.5	76.6	73.1	68.3	43.2	35.4	1.8	4.5	NE	17.2	59	981	0.0
19/06/22 17:00	64.3	79.1	74.3	69.1	42.3	37.5	0.9	3.1	NE	14.6	69	981	0.0
19/06/22 18:00	62.6	80.5	73.6	66.9	39.1	28.5	0.4	2.2	NE	12.4	75	982	0.0
19/06/22 19:00	62.7	77.0	73.0	67.6	38.0	28.9	0.4	2.2	NE	11.1	81	982	0.0
19/06/22 20:00	60.7	76.5	72.7	64.5	34.4	27.9	0.0	1.8	NE	11.1	84	982	0.0
19/06/22 21:00	61.1	76.7	72.9	65.4	29.0	22.1	0.4	1.8	NNE	11.8	82	983	0.0
19/06/22 22:00	59.0	76.5	72.0	62.0	26.4	22.5	0.0	1.8	NNE	11.4	83	983	0.0
19/06/22 23:00	56.1	75.6	70.4	56.9	23.4	19.7	0.0	1.8	NE	10.8	86	982	0.0
20/06/22 0:00	54.9	75.7	69.8	46.1	27.9	25.0	0.9	2.7	NE	11.1	85	982	0.0
20/06/22 1:00	55.8	77.0	70.9	48.4	20.7	19.4	0.4	3.6	NE	10.4	86	982	0.0
20/06/22 2:00	56.6	77.2	71.0	53.3	26.7	23.7	0.0	0.9	ENE	9.2	87	981	0.0
20/06/22 3:00	56.6	78.9	71.1	52.8	23.9	21.4	0.0	1.3	ENE	9.7	88	981	0.0
20/06/22 4:00	60.2	76.2	72.3	63.7	24.8	22.2	0.0	0.0	---	9.7	88	981	0.0
20/06/22 5:00	62.1	76.6	72.3	66.4	32.7	19.6	0.0	0.9	ENE	8.6	87	981	0.0
20/06/22 6:00	63.5	76.5	72.7	67.7	46.7	34.6	0.0	0.0	---	8.3	89	982	0.0
20/06/22 7:00	64.2	76.7	72.7	68.6	49.4	36.3	0.0	0.0	---	9.4	90	982	0.0
20/06/22 8:00	63.1	80.9	73.3	67.0	47.0	40.8	0.0	1.8	ENE	12.4	84	983	0.0
20/06/22 9:00	63.5	76.5	72.4	68.3	46.5	37.9	1.8	5.4	ENE	16.3	67	983	0.0
20/06/22 10:00	63.9	77.5	73.3	68.6	46.4	35.6	2.2	4.9	NE	18.2	59	982	0.0
20/06/22 11:00	63.3	78.1	73.2	67.7	47.2	37.0	1.8	5.4	NNE	19.1	53	981	0.0
20/06/22 12:00	63.4	79.4	73.4	67.7	48.7	31.4	1.3	4.9	E	20.6	47	981	0.0
20/06/22 13:00	63.7	80.7	72.8	68.8	43.6	28.5	0.9	4.5	E	20.4	48	980	0.0
20/06/22 14:00	63.1	76.2	72.3	68.1	43.3	33.3	0.4	3.1	NE	19.7	49	980	0.0
20/06/22 15:00	64.7	81.4	74.0	69.5	43.2	33.8	1.3	3.1	NNE	18.9	52	980	0.0
20/06/22 16:00	61.3	73.8	70.6	66.0	45.6	37.6	0.4	2.7	NNE	18.6	53	980	0.0

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP7

Address	358 Elsden Road	**Monitoring Start**	14/06/2022	**Dominant Road**	Gore Highway
Suburb	Brookstead	**Monitoring Finish**	20/06/2022	**Dist. to Road (m)**	190
District	Toowoomba	**Mic. Height (m)**	1.8	**Start Cal. (dB(A))**	94.0
Latitude	-27.772769°	**Instrument Type**	01dB Duo	**Post Cal. (dB(A))**	94.0
Longitude	151.427680°	**Monitor Serial**	10585	**Operator**	LAN
Lot No.	2SP119342	**Measurement**	Free Field	**Sample Interval**	1 hour

Daily Noise Level Summary

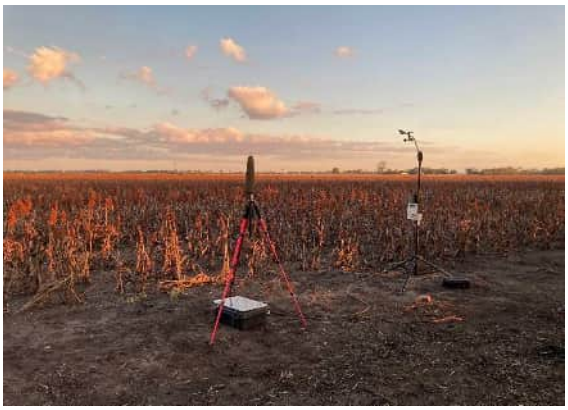
$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
55.1	**53.6**	**61.4**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Tuesday, 14 June 2022	-^	-^	-^
Wednesday, 15 June 2022	55.0	52.5	62.4
Thursday, 16 June 2022	55.0	53.4	60.7
Friday, 17 June 2022	55.3	54.9	61.1
Saturday, 18 June 2022	52.9	51.8	57.7
Sunday, 19 June 2022	58.2	57.8	62.3
Monday, 20 June 2022	-^	-^	-^

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos



Attended Measurement Summary

Attended Measurement #1: Tuesday, 14 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
4:38 PM	4:53 PM	Attended	48.8	32.4	73.4	57.0	53.0	37.2
4:00 PM	5:00 PM	Logger	53.9	28.7	78.7	63.5	54.9	35.9

Comments

Traffic noise from Gore Highway is the dominant noise. Other noises include occasional dog barking, distant cockatoos, and overhead recreational aircraft.

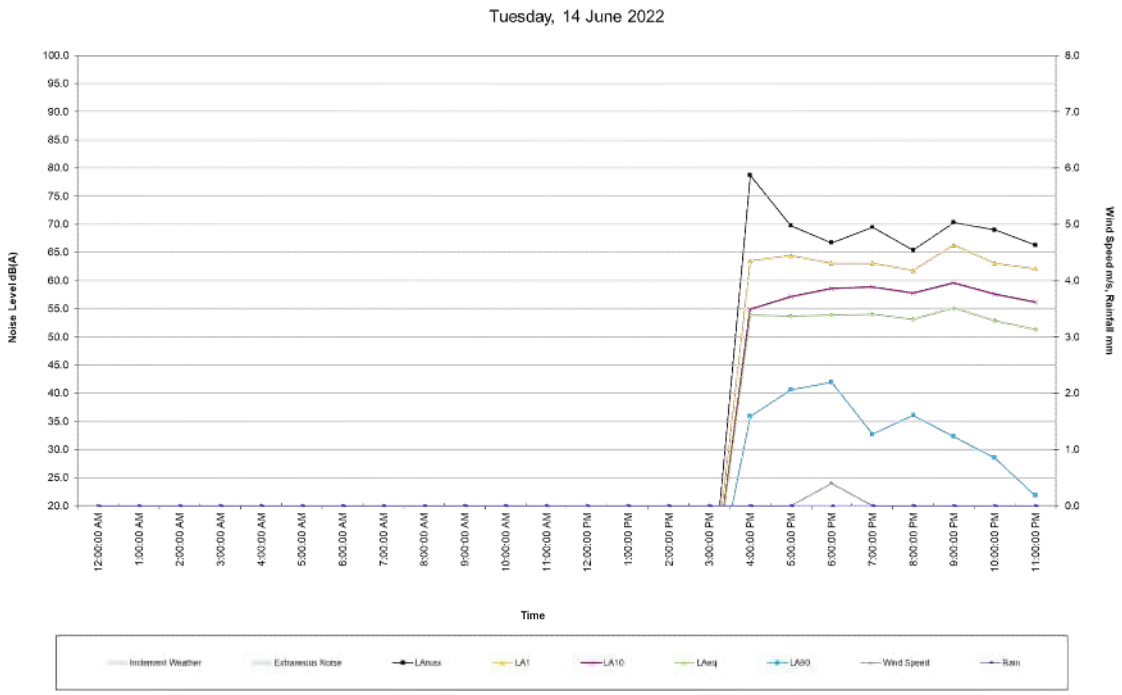
Attended Measurement #2: Monday, 20 June 2022

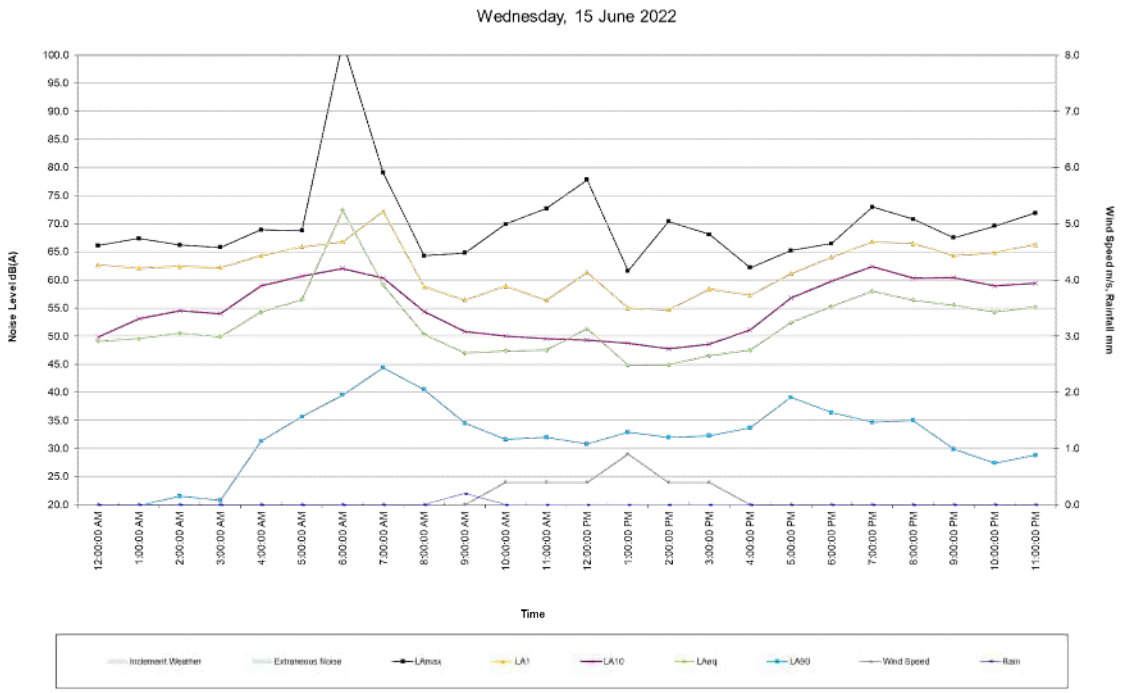
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
4:50 PM	5:05 PM	Attended	56.3	33.2	69.6	65.7	60.6	46.6
4:00 PM	5:00 PM	Logger	56.7	32.0	73.1	65.0	60.7	44.5

Comments

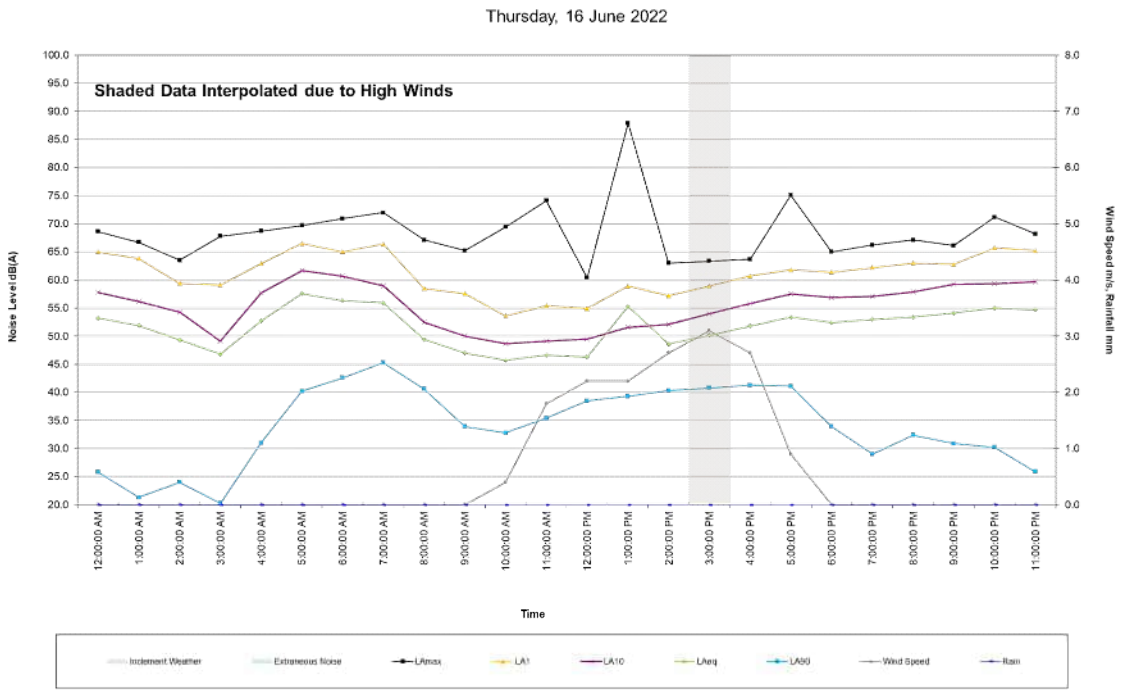
Traffic noise from Gore Highway is the dominant noise. Other noises include intermittent dog barking.

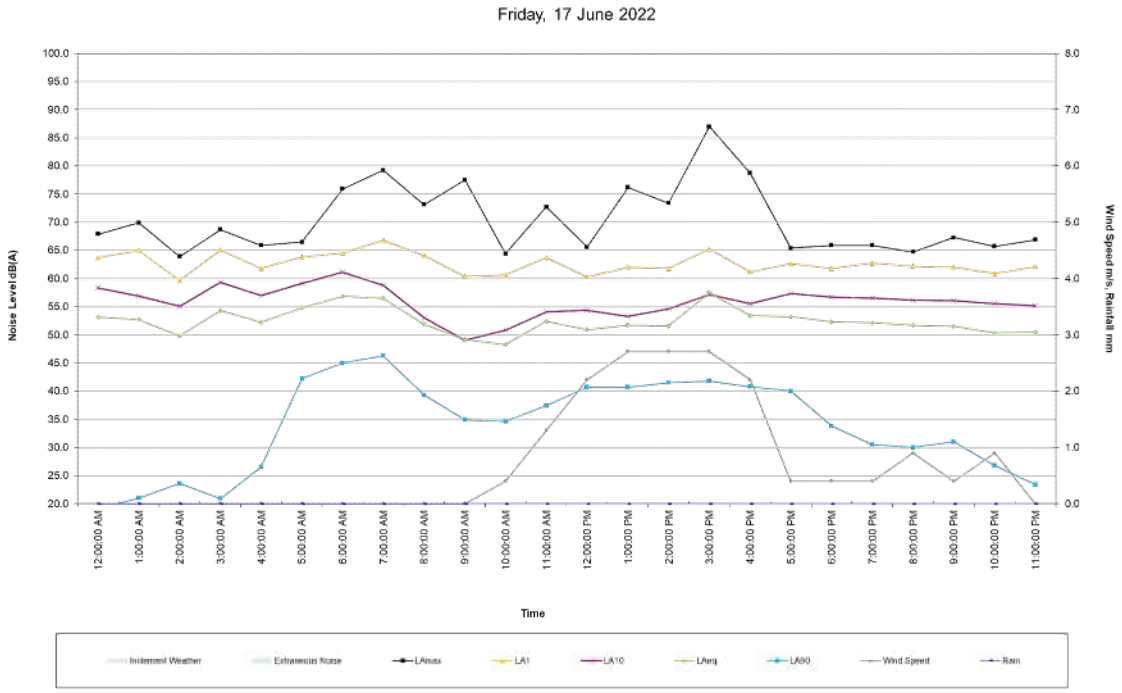
Site Noise and Weather Conditions



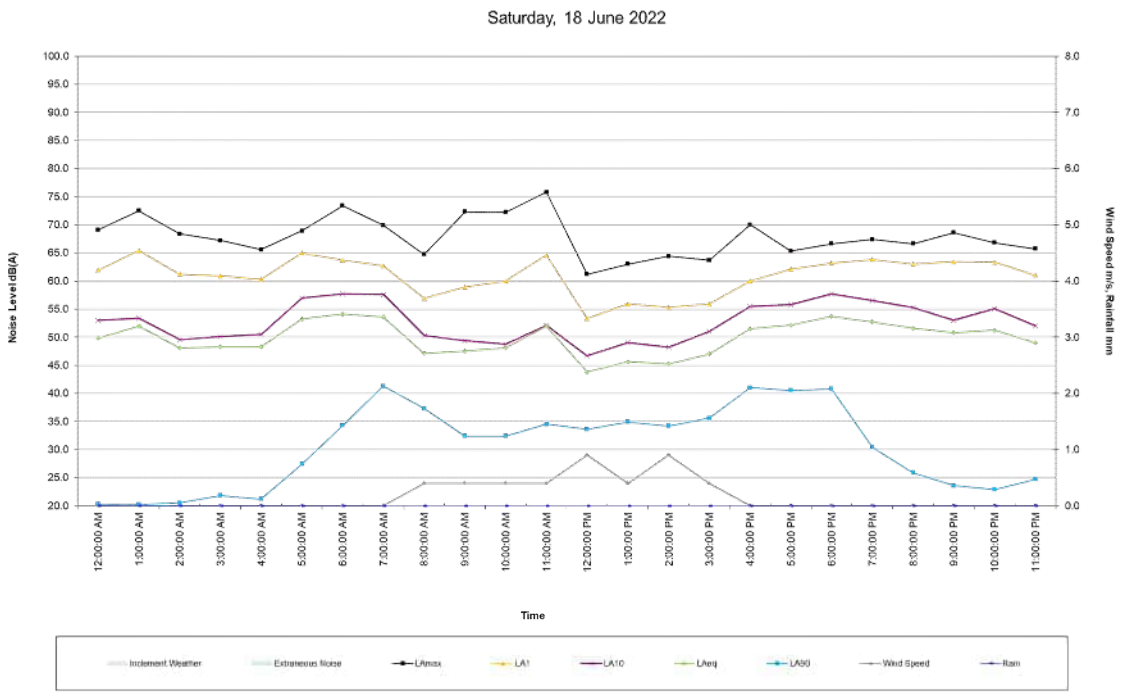


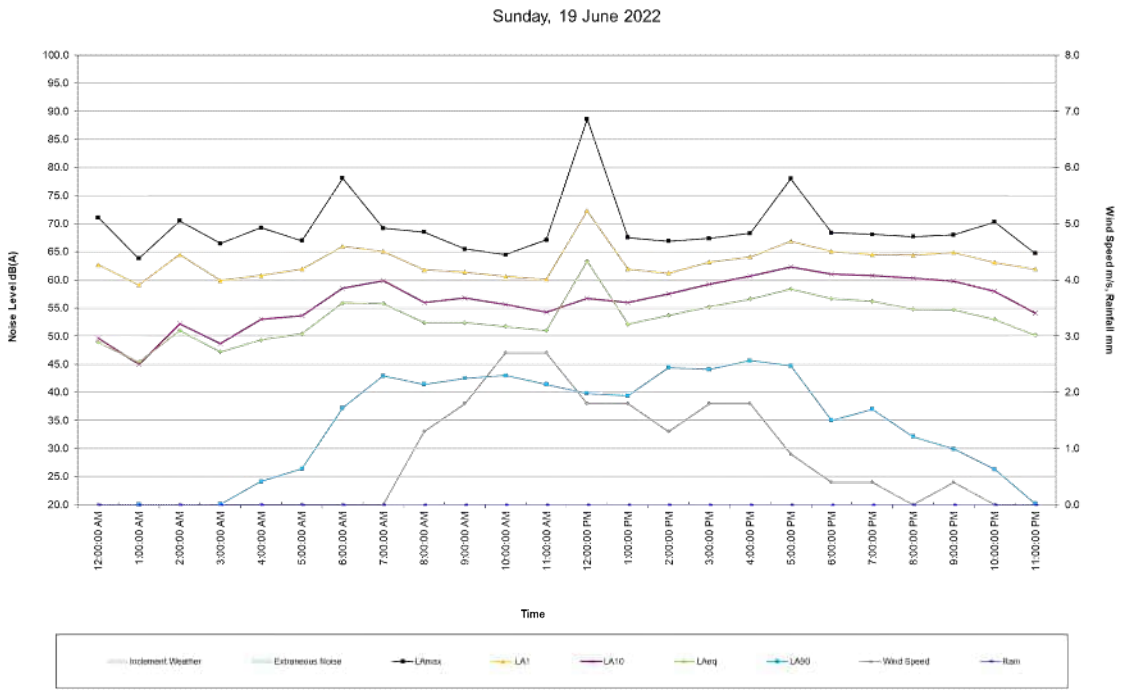
Site Noise and Weather Conditions



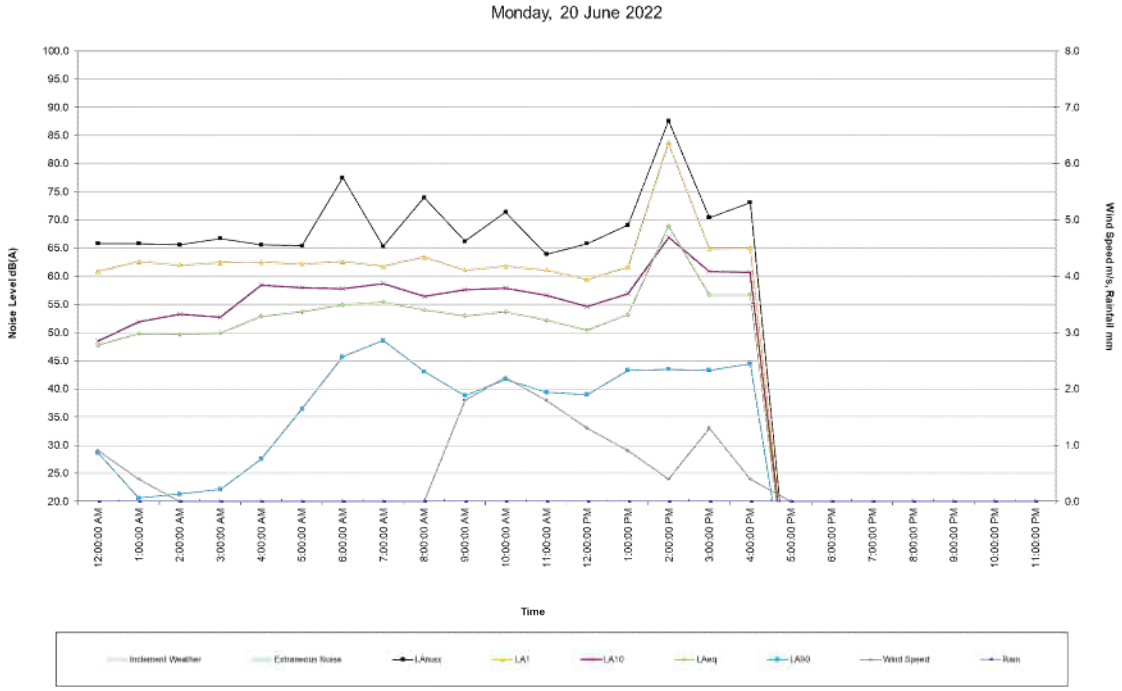


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
14/06/22 16:00	53.9	78.7	63.5	54.9	35.9	28.7	0.0	2.2	WSW	18.4	56	982	0.0
14/06/22 17:00	53.7	69.8	64.4	57.2	40.6	30.0	0.0	1.3	N	15.2	69	982	0.0
14/06/22 18:00	53.9	66.7	63.1	58.6	41.9	38.8	0.4	2.2	N	16.1	72	984	0.0
14/06/22 19:00	54.0	69.5	63.1	58.9	32.7	24.4	0.0	1.3	N	13.7	75	984	0.0
14/06/22 20:00	53.1	65.4	61.8	57.8	36.1	29.0	0.0	0.0	---	10.4	85	984	0.0
14/06/22 21:00	55.1	70.3	66.3	59.6	32.3	25.9	0.0	0.0	---	10.2	86	984	0.0
14/06/22 22:00	52.9	69.0	63.1	57.6	28.5	20.2	0.0	0.0	---	8.2	86	984	0.0
14/06/22 23:00	51.3	66.3	62.1	56.2	21.8	17.9	0.0	0.0	---	7.7	89	984	0.0
15/06/22 0:00	49.1	66.1	62.7	49.8	18.0	17.5	0.0	0.0	---	8.3	90	983	0.0
15/06/22 1:00	49.6	67.4	62.1	53.1	19.8	17.9	0.0	0.0	---	7.8	90	983	0.0
15/06/22 2:00	50.5	66.2	62.4	54.5	21.5	18.1	0.0	0.0	---	6.9	91	983	0.0
15/06/22 3:00	49.9	65.8	62.2	54.0	20.8	18.0	0.0	0.0	---	5.6	91	983	0.0
15/06/22 4:00	54.3	68.9	64.3	59.0	31.3	22.1	0.0	0.0	---	5.6	91	983	0.0
15/06/22 5:00	56.5	68.8	65.9	60.7	35.7	27.0	0.0	0.0	---	5.9	91	984	0.0
15/06/22 6:00	72.4	102.4	66.8	62.0	39.5	27.8	0.0	0.0	---	5.6	91	984	0.0
15/06/22 7:00	59.1	79.1	72.2	60.3	44.4	32.2	0.0	0.0	---	8.6	92	984	0.0
15/06/22 8:00	50.3	64.3	58.8	54.4	40.5	32.1	0.0	1.8	N	10.8	92	985	0.0
15/06/22 9:00	47.0	64.8	56.4	50.8	34.5	29.3	0.0	1.3	E	12.6	92	985	0.2
15/06/22 10:00	47.4	69.9	58.9	50.0	31.6	26.8	0.4	2.7	W	15.0	90	984	0.0
15/06/22 11:00	47.5	72.7	56.4	49.6	32.0	26.5	0.4	2.7	W	18.3	73	983	0.0
15/06/22 12:00	51.3	77.8	61.4	49.3	30.8	26.4	0.4	3.6	W	19.9	61	982	0.0
15/06/22 13:00	44.8	61.6	55.0	48.8	32.9	26.2	0.9	3.1	W	20.7	52	982	0.0
15/06/22 14:00	44.9	70.4	54.7	47.8	32.0	26.4	0.4	2.7	WSW	19.8	52	981	0.0
15/06/22 15:00	46.5	68.1	58.4	48.6	32.3	28.2	0.4	2.7	W	19.9	50	981	0.0
15/06/22 16:00	47.5	62.2	57.3	51.1	33.7	28.1	0.0	1.8	W	18.3	54	981	0.0
15/06/22 17:00	52.4	65.2	61.1	56.8	39.1	28.7	0.0	0.4	WSW	15.6	63	981	0.0
15/06/22 18:00	55.3	66.5	64.1	59.8	36.4	28.3	0.0	1.3	WSW	12.8	72	981	0.0
15/06/22 19:00	58.0	73.0	66.8	62.4	34.7	24.2	0.0	0.9	NNW	10.9	77	982	0.0
15/06/22 20:00	56.4	70.8	66.5	60.3	35.0	23.1	0.0	0.0	---	10.5	80	982	0.0
15/06/22 21:00	55.5	67.5	64.3	60.4	29.9	19.6	0.0	0.0	---	9.8	81	982	0.0
15/06/22 22:00	54.3	69.6	64.9	59.0	27.4	23.2	0.0	0.0	---	8.3	83	982	0.0
15/06/22 23:00	55.2	71.9	66.3	59.4	28.8	20.9	0.0	0.0	---	7.7	85	982	0.0
16/06/22 0:00	53.2	68.6	65.0	57.8	25.8	21.7	0.0	0.0	---	7.9	86	982	0.0
16/06/22 1:00	51.9	66.7	63.8	56.2	21.3	19.8	0.0	0.4	NNW	7.2	87	981	0.0
16/06/22 2:00	49.3	63.5	59.4	54.3	24.0	21.3	0.0	0.9	WNW	6.8	89	981	0.0
16/06/22 3:00	46.8	67.8	59.1	49.1	20.3	19.6	0.0	0.0	---	5.4	89	981	0.0
16/06/22 4:00	52.7	68.7	62.9	57.7	31.0	22.2	0.0	0.0	---	5.2	89	981	0.0
16/06/22 5:00	57.6	69.7	66.5	61.7	40.2	31.7	0.0	0.4	WNW	4.9	90	981	0.0
16/06/22 6:00	56.3	70.9	65.0	60.7	42.6	32.4	0.0	0.9	WNW	4.9	90	982	0.0
16/06/22 7:00	55.9	72.0	66.4	59.0	45.3	37.6	0.0	0.9	NNE	7.8	91	982	0.0
16/06/22 8:00	49.4	67.1	58.5	52.5	40.6	35.6	0.0	1.3	E	11.7	90	982	0.0
16/06/22 9:00	47.0	65.2	57.6	50.0	33.9	28.2	0.0	2.2	WSW	15.6	79	982	0.0
16/06/22 10:00	45.7	69.4	53.6	48.7	32.8	25.0	0.4	2.7	W	18.2	66	981	0.0
16/06/22 11:00	46.6	74.1	55.4	49.1	35.4	28.1	1.8	5.4	S	19.6	59	980	0.0
16/06/22 12:00	46.3	60.4	54.9	49.5	38.5	33.1	2.2	5.8	S	20.7	48	980	0.0
16/06/22 13:00	55.3	87.9	58.9	51.6	39.3	32.9	2.2	5.4	S	21.0	46	979	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
16/06/22 14:00	48.6	63.0	57.2	52.1	40.3	33.4	2.7	5.8	S	20.4	43	979	0.0
16/06/22 15:00	50.2	63.4	59.0	54.0	40.8	33.3	3.1	7.2	S	19.6	41	979	0.0
16/06/22 16:00	51.8	63.7	60.7	55.8	41.3	33.2	2.7	4.9	S	17.4	44	979	0.0
16/06/22 17:00	53.4	75.1	61.8	57.5	41.1	31.9	0.9	2.2	S	14.1	51	979	0.0
16/06/22 18:00	52.4	65.0	61.4	56.9	33.9	23.3	0.0	0.9	S	12.2	59	980	0.0
16/06/22 19:00	53.0	66.2	62.2	57.1	29.0	22.6	0.0	0.0	---	8.8	69	981	0.0
16/06/22 20:00	53.4	67.1	63.0	57.9	32.4	23.2	0.0	0.0	---	6.9	73	981	0.0
16/06/22 21:00	54.1	66.1	62.8	59.2	30.9	22.0	0.0	1.3	S	5.8	78	981	0.0
16/06/22 22:00	55.0	71.2	65.7	59.3	30.2	20.2	0.0	1.8	S	4.2	81	981	0.0
16/06/22 23:00	54.7	68.2	65.2	59.7	25.9	18.6	0.0	0.4	S	3.2	83	980	0.0
17/06/22 0:00	53.1	67.9	63.7	58.3	19.1	17.4	0.0	0.4	S	3.4	84	980	0.0
17/06/22 1:00	52.7	69.9	65.0	56.9	21.0	18.1	0.0	0.9	S	3.8	85	980	0.0
17/06/22 2:00	49.8	63.9	59.6	55.1	23.6	18.5	0.0	0.4	S	2.5	85	980	0.0
17/06/22 3:00	54.3	68.7	65.1	59.3	20.9	18.4	0.0	0.0	---	2.4	86	980	0.0
17/06/22 4:00	52.2	65.9	61.8	57.0	26.5	19.8	0.0	0.0	---	1.8	86	980	0.0
17/06/22 5:00	54.8	66.5	63.8	59.1	42.2	33.4	0.0	0.0	---	1.3	88	981	0.0
17/06/22 6:00	56.8	75.9	64.5	61.1	45.0	37.5	0.0	0.4	S	1.8	88	981	0.0
17/06/22 7:00	56.5	79.2	66.8	58.8	46.3	39.2	0.0	1.3	S	5.1	85	981	0.0
17/06/22 8:00	51.9	73.1	64.1	53.0	39.3	33.9	0.0	0.9	ESE	9.0	75	982	0.0
17/06/22 9:00	49.2	77.5	60.4	49.0	34.9	30.8	0.0	1.3	ESE	12.9	65	981	0.0
17/06/22 10:00	48.3	64.4	60.6	50.8	34.6	26.4	0.4	2.7	ESE	16.1	52	981	0.0
17/06/22 11:00	52.4	72.7	63.7	54.1	37.4	29.8	1.3	5.8	SE	18.0	48	980	0.0
17/06/22 12:00	50.9	65.6	60.3	54.4	40.7	31.1	2.2	5.4	SSE	18.9	43	980	0.0
17/06/22 13:00	51.7	76.2	62.0	53.3	40.7	36.1	2.7	5.4	S	18.8	44	979	0.0
17/06/22 14:00	51.6	73.4	61.8	54.6	41.5	32.1	2.7	5.4	SSE	18.7	45	979	0.0
17/06/22 15:00	57.5	87.0	65.2	57.2	41.8	34.7	2.7	4.9	S	17.8	48	979	0.0
17/06/22 16:00	53.4	78.7	61.2	55.5	40.8	32.5	2.2	4.9	S	15.8	53	980	0.0
17/06/22 17:00	53.2	65.4	62.6	57.3	40.0	30.9	0.4	1.3	S	12.9	61	980	0.0
17/06/22 18:00	52.3	65.9	61.8	56.7	33.8	25.5	0.4	1.3	S	11.7	67	981	0.0
17/06/22 19:00	52.1	65.9	62.7	56.5	30.5	23.8	0.4	1.3	S	10.6	68	981	0.0
17/06/22 20:00	51.7	64.7	62.2	56.2	30.0	27.4	0.9	1.8	S	8.9	73	982	0.0
17/06/22 21:00	51.5	67.3	62.0	56.1	31.0	23.8	0.4	2.2	S	8.4	77	982	0.0
17/06/22 22:00	50.3	65.7	60.9	55.5	26.8	23.4	0.9	2.7	SSE	8.0	79	982	0.0
17/06/22 23:00	50.4	66.9	62.1	55.2	23.4	19.2	0.0	0.9	SSE	6.2	81	982	0.0
18/06/22 0:00	49.8	69.1	61.9	53.0	20.3	19.6	0.0	0.9	SSE	4.7	84	982	0.0
18/06/22 1:00	52.0	72.5	65.4	53.4	20.2	19.7	0.0	1.3	SSE	3.8	84	982	0.0
18/06/22 2:00	48.1	68.4	61.2	49.6	20.5	20.0	0.0	0.0	---	2.8	87	982	0.0
18/06/22 3:00	48.3	67.2	60.9	50.1	21.8	20.1	0.0	0.0	---	1.3	87	982	0.0
18/06/22 4:00	48.3	65.6	60.3	50.5	21.2	20.1	0.0	0.0	---	2.2	88	982	0.0
18/06/22 5:00	53.2	68.9	65.0	57.0	27.4	22.6	0.0	0.4	SSE	2.7	90	982	0.0
18/06/22 6:00	54.1	73.4	63.7	57.7	34.3	25.9	0.0	0.0	---	1.7	90	983	0.0
18/06/22 7:00	53.6	69.9	62.7	57.6	41.3	30.4	0.0	0.9	SE	4.9	91	983	0.0
18/06/22 8:00	47.1	64.7	56.9	50.3	37.3	32.0	0.4	1.8	SE	8.8	84	983	0.0
18/06/22 9:00	47.5	72.3	58.9	49.4	32.4	27.9	0.4	2.2	SE	12.1	72	984	0.0
18/06/22 10:00	48.1	72.2	60.0	48.8	32.4	27.6	0.4	2.7	ESE	14.4	64	983	0.0
18/06/22 11:00	52.0	75.8	64.6	52.1	34.5	27.1	0.4	3.1	E	16.4	54	982	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
18/06/22 12:00	43.8	61.2	53.3	46.7	33.6	27.7	0.9	3.1	S	18.5	48	982	0.0
18/06/22 13:00	45.6	63.0	55.9	49.0	34.9	27.8	0.4	3.6	E	18.6	44	982	0.0
18/06/22 14:00	45.2	64.4	55.3	48.2	34.2	30.1	0.9	3.6	SE	18.4	44	982	0.0
18/06/22 15:00	47.0	63.7	55.9	51.0	35.6	26.9	0.4	2.7	E	17.8	46	981	0.0
18/06/22 16:00	51.5	70.0	60.0	55.4	41.0	30.4	0.0	3.1	E	16.7	49	981	0.0
18/06/22 17:00	52.1	65.3	62.1	55.8	40.5	29.7	0.0	1.3	E	13.1	59	982	0.0
18/06/22 18:00	53.7	66.6	63.2	57.7	40.8	32.7	0.0	0.4	E	10.9	68	983	0.0
18/06/22 19:00	52.7	67.4	63.8	56.5	30.4	23.3	0.0	1.8	N	8.7	77	983	0.0
18/06/22 20:00	51.6	66.6	63.0	55.3	25.9	20.6	0.0	1.3	N	7.9	80	983	0.0
18/06/22 21:00	50.8	68.6	63.4	53.0	23.6	19.0	0.0	0.9	N	6.4	78	984	0.0
18/06/22 22:00	51.2	66.8	63.3	55.1	22.9	18.5	0.0	0.0	---	4.6	79	983	0.0
18/06/22 23:00	49.0	65.7	61.0	52.0	24.7	18.7	0.0	0.4	N	5.2	85	984	0.0
19/06/22 0:00	48.9	71.1	62.7	49.7	19.9	18.5	0.0	0.4	N	4.1	84	984	0.0
19/06/22 1:00	45.4	63.8	59.1	45.0	20.0	19.2	0.0	0.0	---	4.4	85	983	0.0
19/06/22 2:00	51.0	70.5	64.5	52.2	19.0	17.7	0.0	1.3	N	3.2	86	983	0.0
19/06/22 3:00	47.2	66.5	59.9	48.7	20.1	17.9	0.0	0.0	---	3.3	88	983	0.0
19/06/22 4:00	49.3	69.3	60.8	53.0	24.1	21.9	0.0	1.3	E	3.8	89	983	0.0
19/06/22 5:00	50.4	67.0	61.9	53.6	26.4	20.6	0.0	0.0	---	3.6	89	984	0.0
19/06/22 6:00	55.9	78.1	66.0	58.5	37.2	28.5	0.0	0.9	E	3.3	89	984	0.0
19/06/22 7:00	55.8	69.2	65.1	59.9	42.9	33.0	0.0	1.8	E	8.4	90	984	0.0
19/06/22 8:00	52.4	68.5	61.8	56.0	41.4	35.9	1.3	4.0	ENE	12.8	76	984	0.0
19/06/22 9:00	52.4	65.5	61.4	56.8	42.5	35.7	1.8	4.5	ENE	15.8	68	984	0.0
19/06/22 10:00	51.7	64.5	60.6	55.6	43.0	37.8	2.7	5.8	NE	17.7	62	983	0.0
19/06/22 11:00	51.0	67.1	60.1	54.3	41.4	32.9	2.7	5.4	NNE	18.8	59	983	0.0
19/06/22 12:00	63.3	88.6	72.3	56.7	39.8	28.9	1.8	4.5	ENE	19.4	57	983	0.0
19/06/22 13:00	52.1	67.5	61.9	56.0	39.4	30.9	1.8	4.5	NE	19.8	54	982	0.0
19/06/22 14:00	53.7	66.9	61.2	57.5	44.4	35.0	1.3	4.5	ENE	19.9	54	982	0.0
19/06/22 15:00	55.2	67.4	63.2	59.2	44.1	35.3	1.8	4.0	NE	19.1	55	982	0.0
19/06/22 16:00	56.6	68.3	64.1	60.7	45.6	35.1	1.8	4.5	NE	17.2	59	981	0.0
19/06/22 17:00	58.4	78.0	66.9	62.3	44.7	36.4	0.9	3.1	NE	14.6	69	981	0.0
19/06/22 18:00	56.7	68.4	65.1	61.0	35.0	29.3	0.4	2.2	NE	12.4	75	982	0.0
19/06/22 19:00	56.2	68.1	64.5	60.8	37.0	27.2	0.4	2.2	NE	11.1	81	982	0.0
19/06/22 20:00	54.8	67.7	64.4	60.3	32.1	23.5	0.0	1.8	NE	11.1	84	982	0.0
19/06/22 21:00	54.7	68.0	64.9	59.8	29.9	21.3	0.4	1.8	NNE	11.8	82	983	0.0
19/06/22 22:00	53.0	70.3	63.1	58.0	26.3	20.6	0.0	1.8	NNE	11.4	83	983	0.0
19/06/22 23:00	50.2	64.7	61.9	54.1	20.2	18.8	0.0	1.8	NE	10.8	86	982	0.0
20/06/22 0:00	47.8	65.8	60.9	48.5	28.6	24.0	0.9	2.7	NE	11.1	85	982	0.0
20/06/22 1:00	49.8	65.8	62.6	51.9	20.6	18.9	0.4	3.6	NE	10.4	86	982	0.0
20/06/22 2:00	49.7	65.6	62.0	53.3	21.3	19.2	0.0	0.9	ENE	9.2	87	981	0.0
20/06/22 3:00	49.9	66.7	62.4	52.7	22.2	19.9	0.0	1.3	ENE	9.7	88	981	0.0
20/06/22 4:00	52.9	65.6	62.5	58.4	27.5	19.8	0.0	0.0	---	9.7	88	981	0.0
20/06/22 5:00	53.7	65.4	62.2	58.0	36.4	24.8	0.0	0.9	ENE	8.6	87	981	0.0
20/06/22 6:00	54.9	77.5	62.6	57.8	45.7	34.9	0.0	0.0	---	8.3	89	982	0.0
20/06/22 7:00	55.4	65.3	61.8	58.7	48.6	39.3	0.0	0.0	---	9.4	90	982	0.0
20/06/22 8:00	54.0	74.0	63.4	56.4	43.1	36.3	0.0	1.8	ENE	12.4	84	983	0.0
20/06/22 9:00	53.0	66.2	61.1	57.6	38.8	33.8	1.8	5.4	ENE	16.3	67	983	0.0
20/06/22 10:00	53.7	71.4	61.8	57.9	41.7	34.7	2.2	4.9	NE	18.2	59	982	0.0
20/06/22 11:00	52.2	63.9	61.1	56.6	39.4	32.6	1.8	5.4	NNE	19.1	53	981	0.0
20/06/22 12:00	50.4	65.8	59.5	54.6	39.0	32.1	1.3	4.9	E	20.6	47	981	0.0
20/06/22 13:00	53.2	69.1	61.6	56.9	43.3	34.0	0.9	4.5	E	20.4	48	980	0.0
20/06/22 14:00	68.9	87.6	83.7	66.9	43.5	31.2	0.4	3.1	NE	19.7	49	980	0.0
20/06/22 15:00	56.7	70.4	64.9	60.9	43.3	29.0	1.3	3.1	NNE	18.9	52	980	0.0
20/06/22 16:00	56.7	73.1	65.0	60.7	44.5	32.0	0.4	2.7	NNE	18.6	53	980	0.0

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP8

Address	6296 Gore Highway Pampas	**Monitoring Start**	21/06/2022	**Dominant Road**	Gore Highway
Suburb	Pampas	**Monitoring Finish**	29/06/2022	**Dist. to Road (m)**	69
District	Toowoomba	**Mic. Height (m)**	2.4	**Start Cal. (dB(A))**	94.0
Latitude	-27.791982°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	93.9
Longitude	151.409520°	**Monitor Serial**	10835	**Operator**	LAN
Lot No.	1RP37110	**Measurement**	Free Field	**Sample Interval**	1 hour

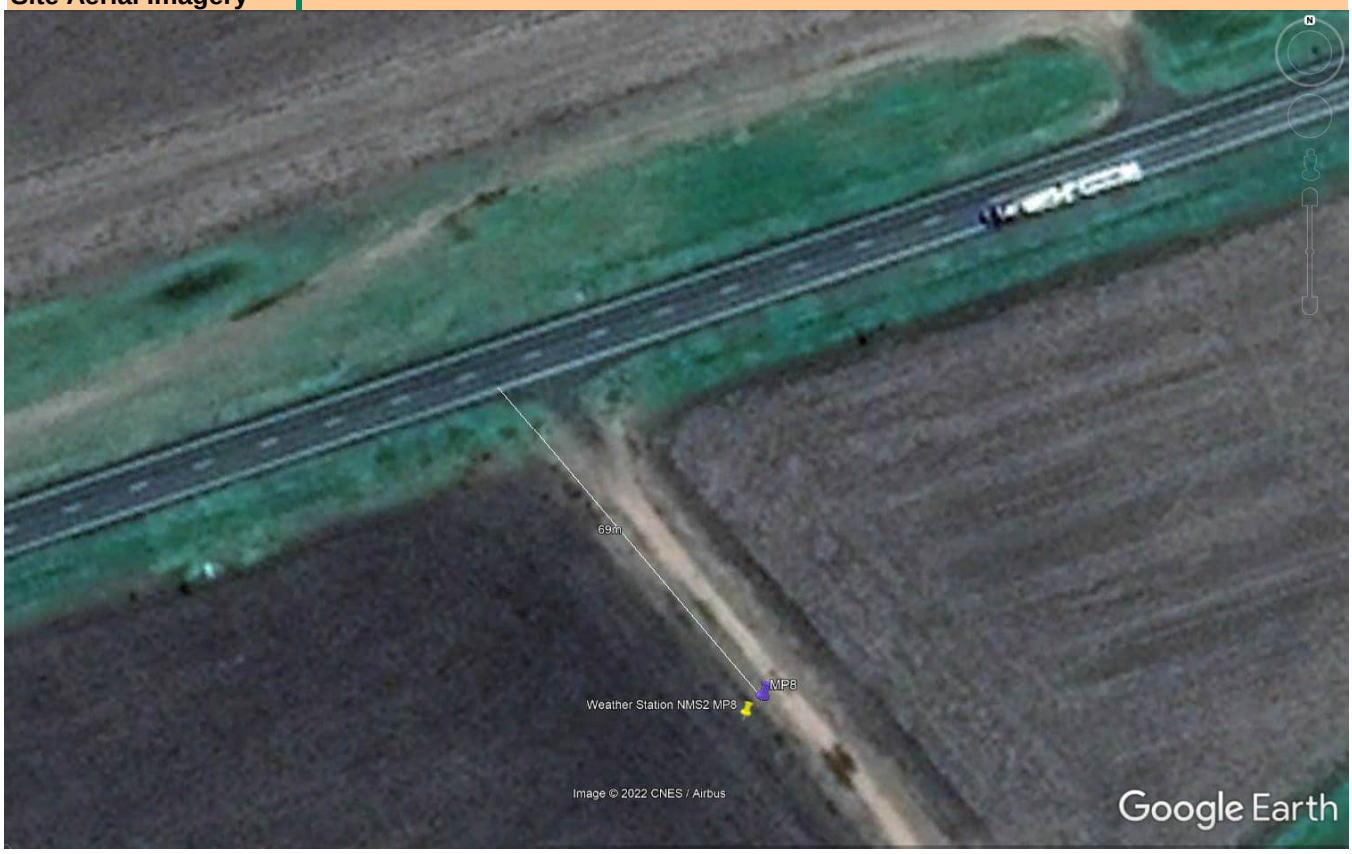
Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
63.9	**63.4**	**67.6**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Tuesday, 21 June 2022	-^	-^	-^
Wednesday, 22 June 2022	64.3	63.5	68.1
Thursday, 23 June 2022	64.3	63.6	67.7
Friday, 24 June 2022	63.1	63.0	67.0
Saturday, 25 June 2022	58.9	58.2	63.8
Sunday, 26 June 2022	60.1	58.5	66.0
Monday, 27 June 2022	-*	-*	-*

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery



Site Photos

Attended Measurement Summary

Attended Measurement #1: Tuesday, 21 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
11:43 AM	11:58 AM	Attended	56.6	34.3	74.0	68.4	60.7	39.8
11:00 AM	12:00 PM	Logger	59.8	34.6	82.1	70.6	63.4	41.7

Comments

Traffic noise from Gore Highway is the dominant noise. Audible industrial noise and overhead aircraft.

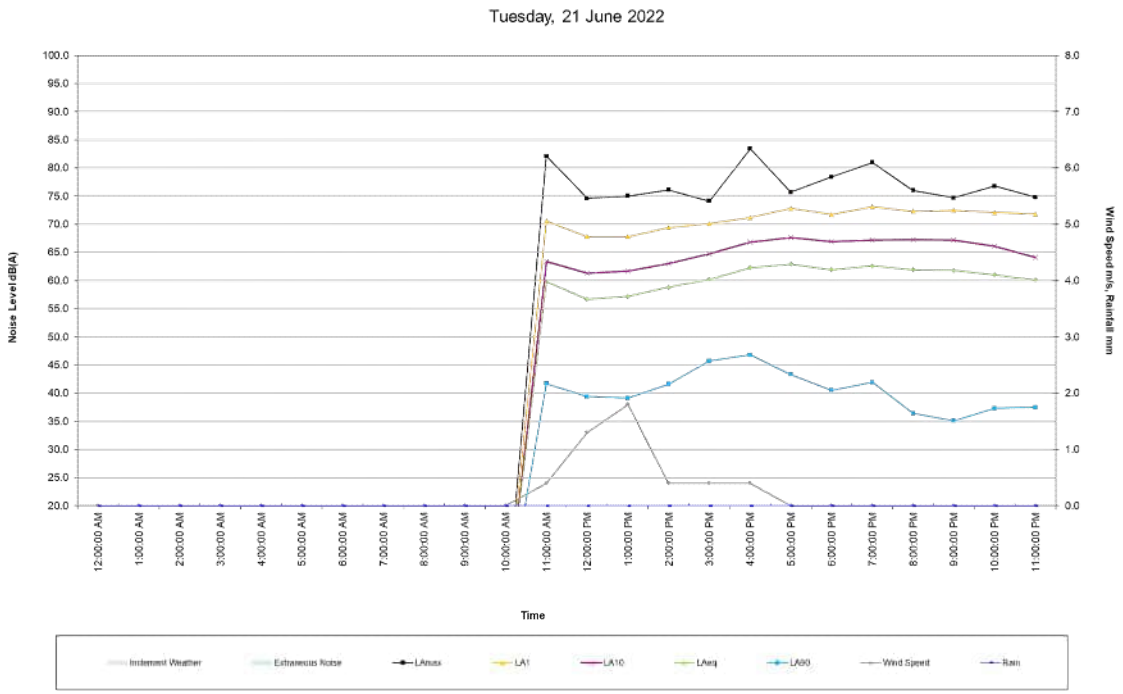
Attended Measurement #2: Wednesday, 29 June 2022

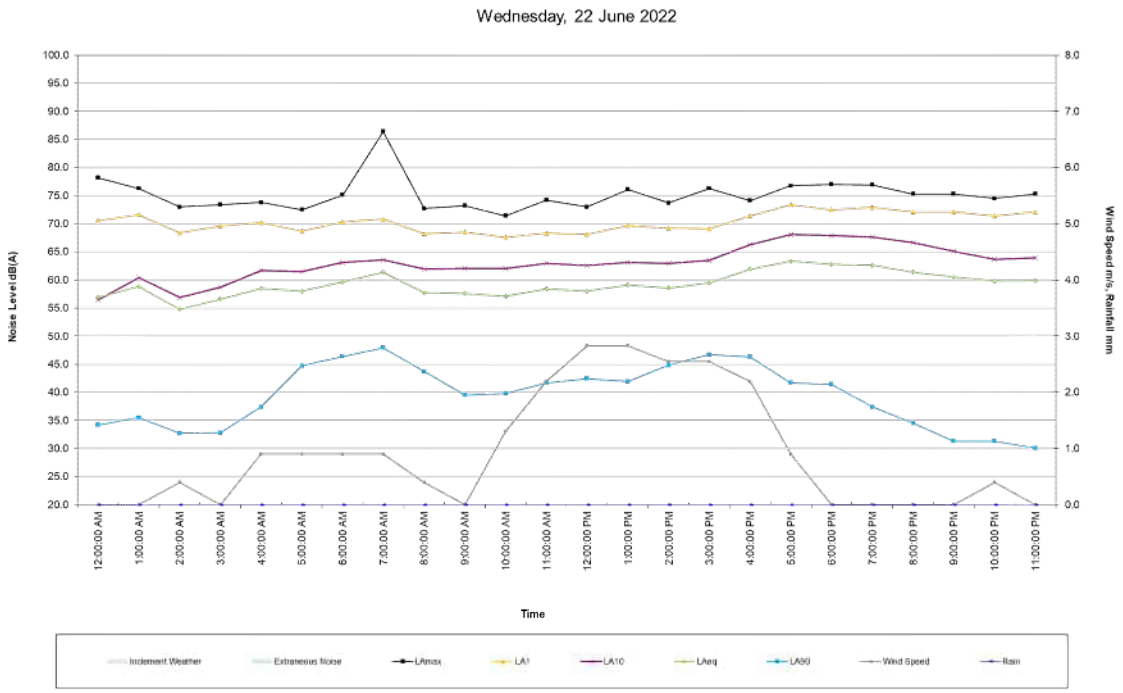
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
10:00 AM	10:15 AM	Attended	51.4	31.9	67.6	62.3	55.4	37.1
10:00 AM	10:30 AM	Logger	56.0	33.8	71.0	68.1	59.2	38.5

Comments

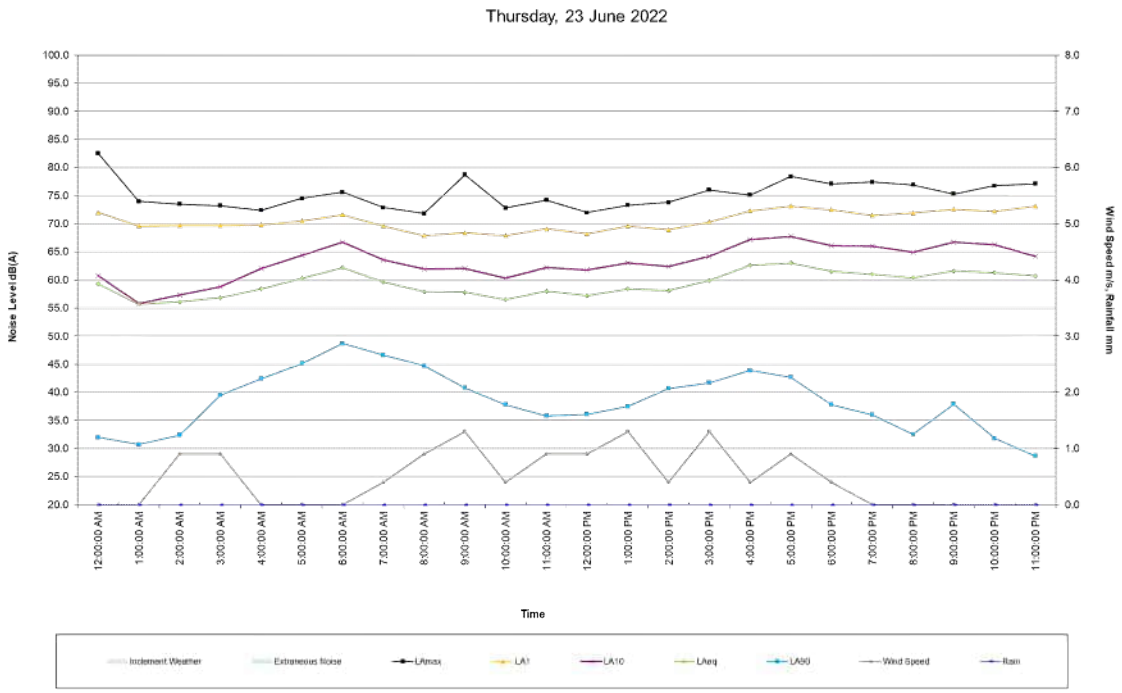
The noise is dominated by traffic noise from the Gore Highway. The L10 is the high end traffic noise occuring from trucks and fast cars. The background noise is the traffic hum. 4:18 min of Gore Highway car noise at 44-57 dBA. 1:16 min of Gore Highway H.V. noise at 52-71 dBA. 0:45 min of Distant Truck noise at 43-59 dBA. 8:41 min of Distant traffic noise at 34-52 dBA.

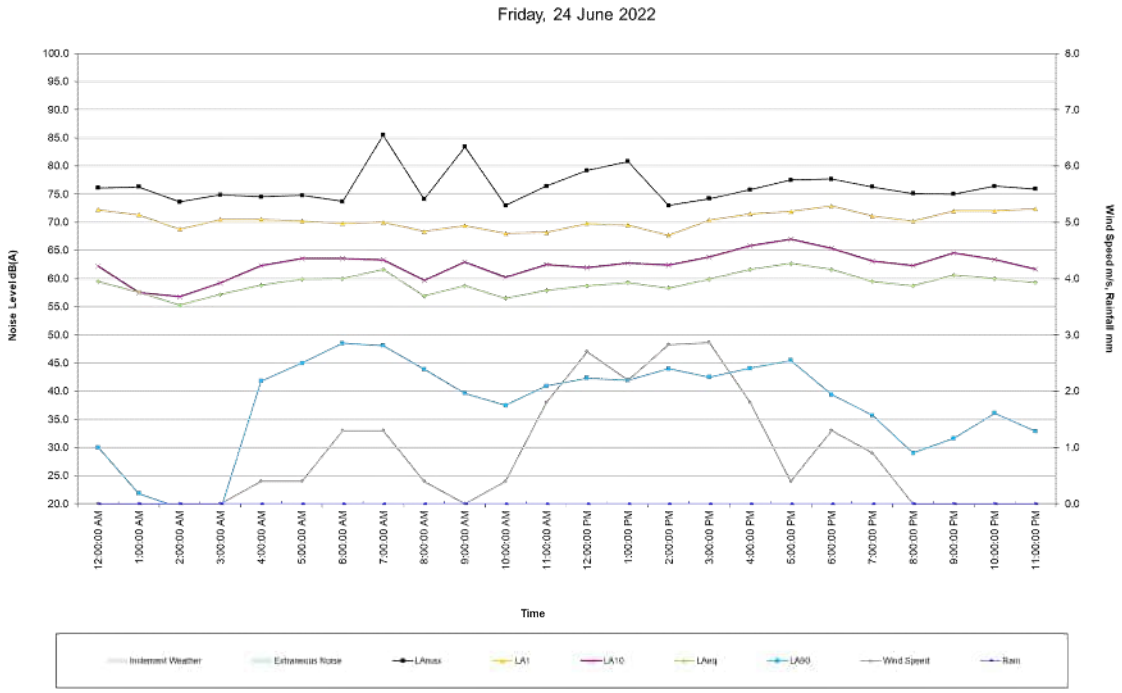
Site Noise and Weather Conditions



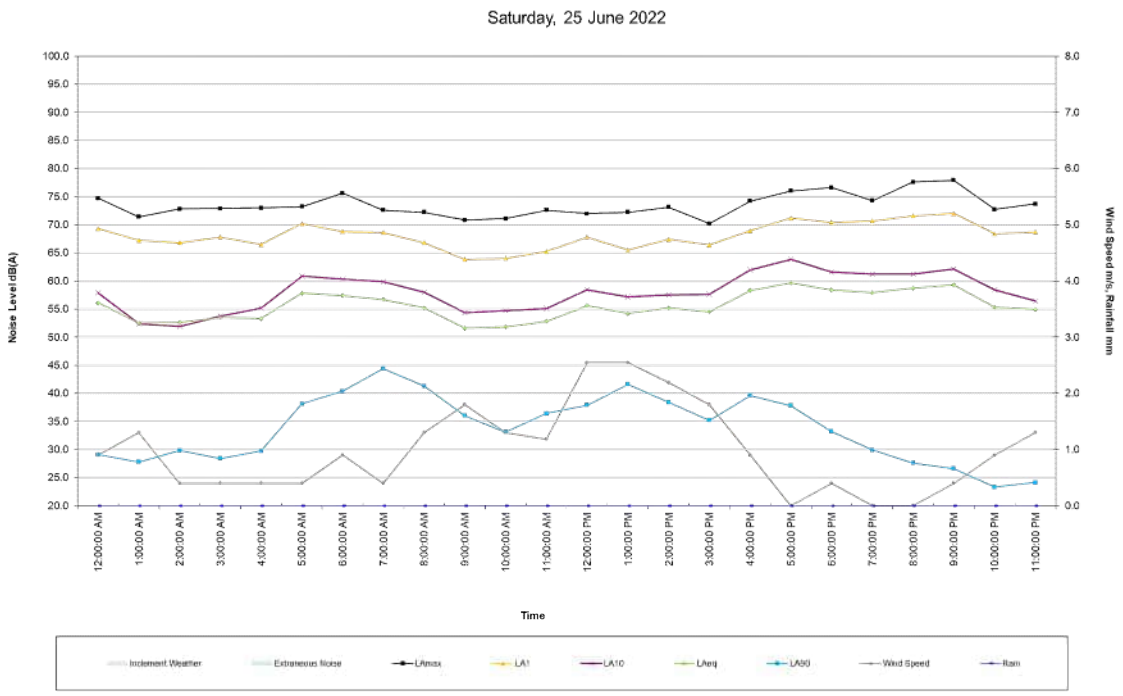


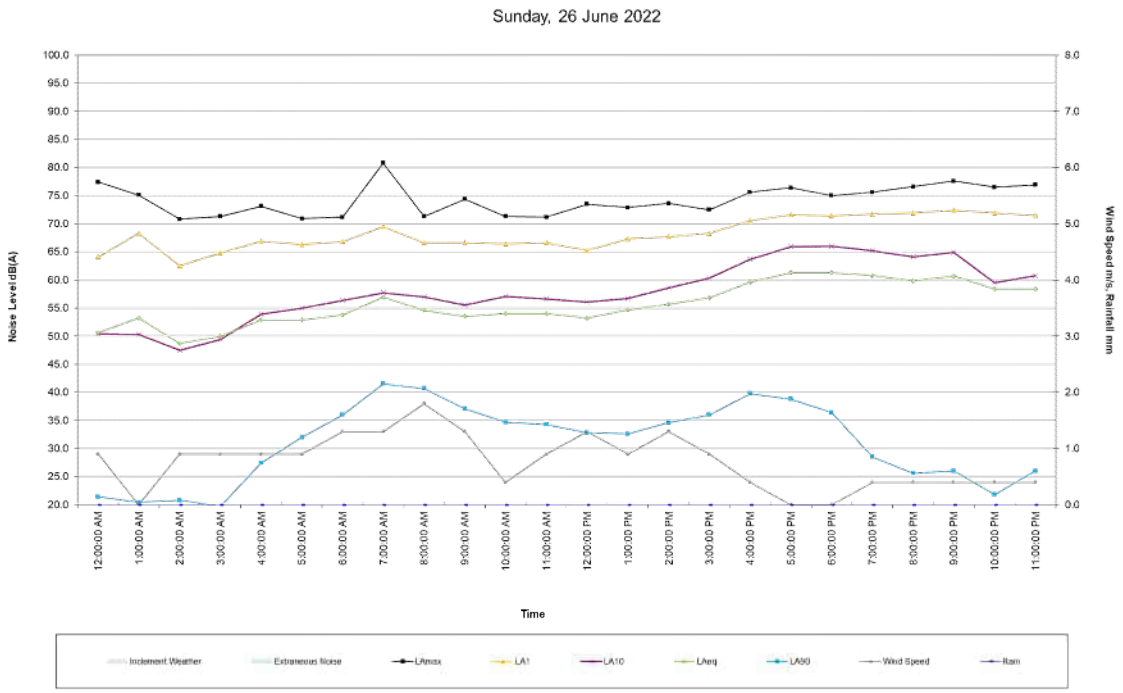
Site Noise and Weather Conditions



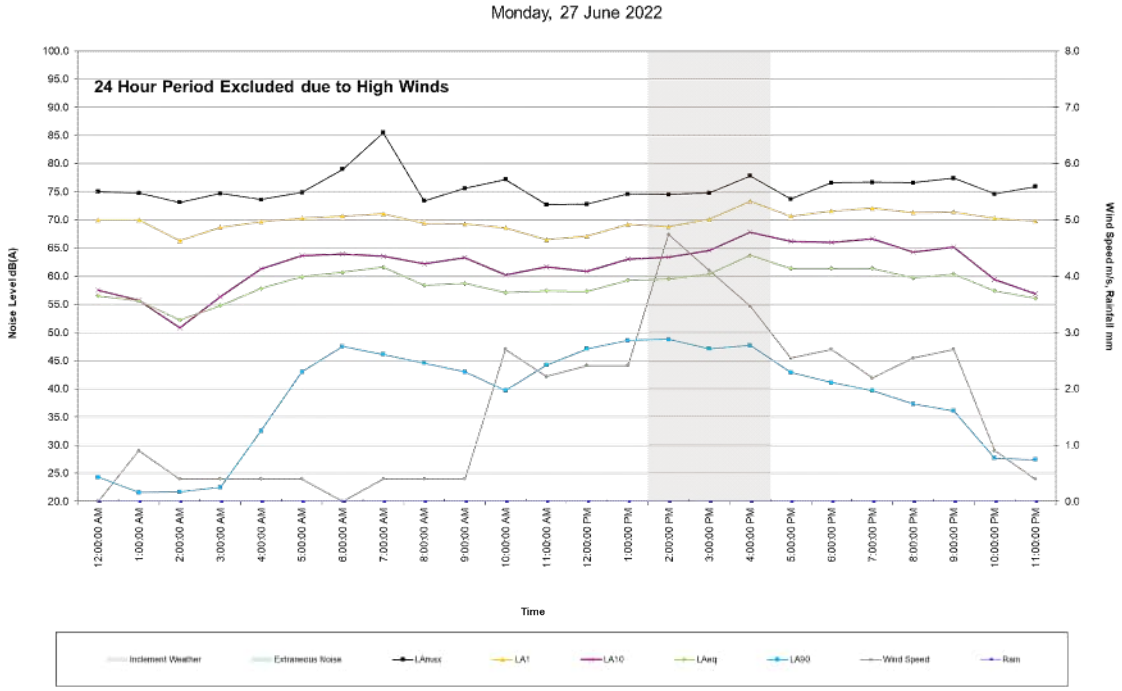


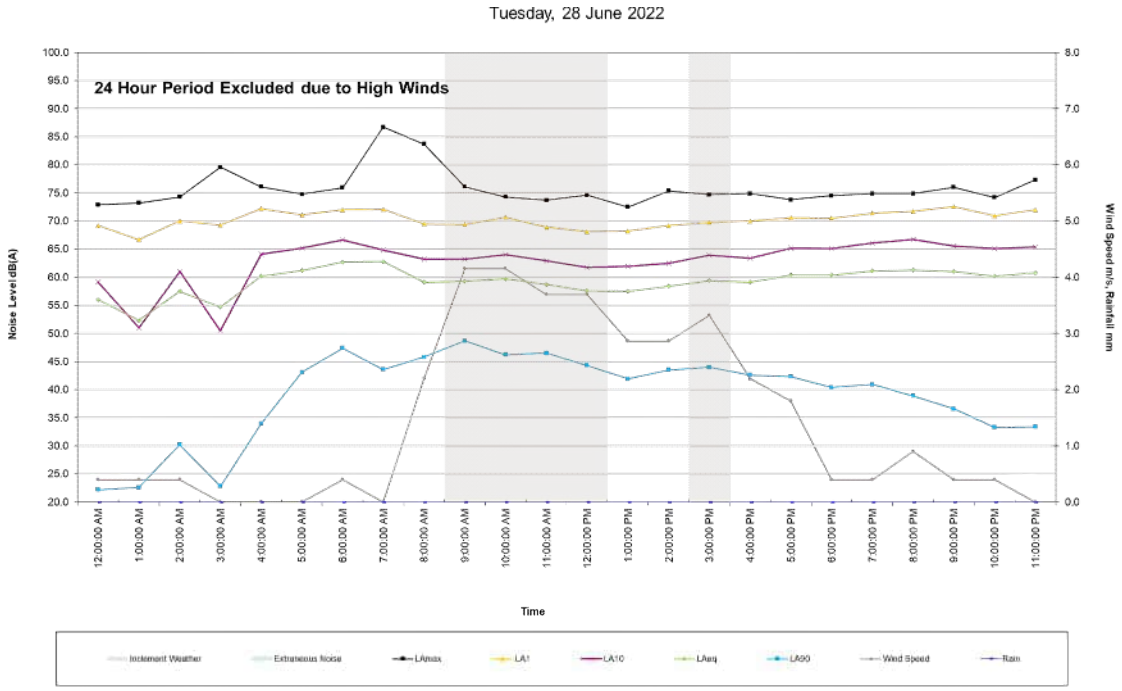
Site Noise and Weather Conditions



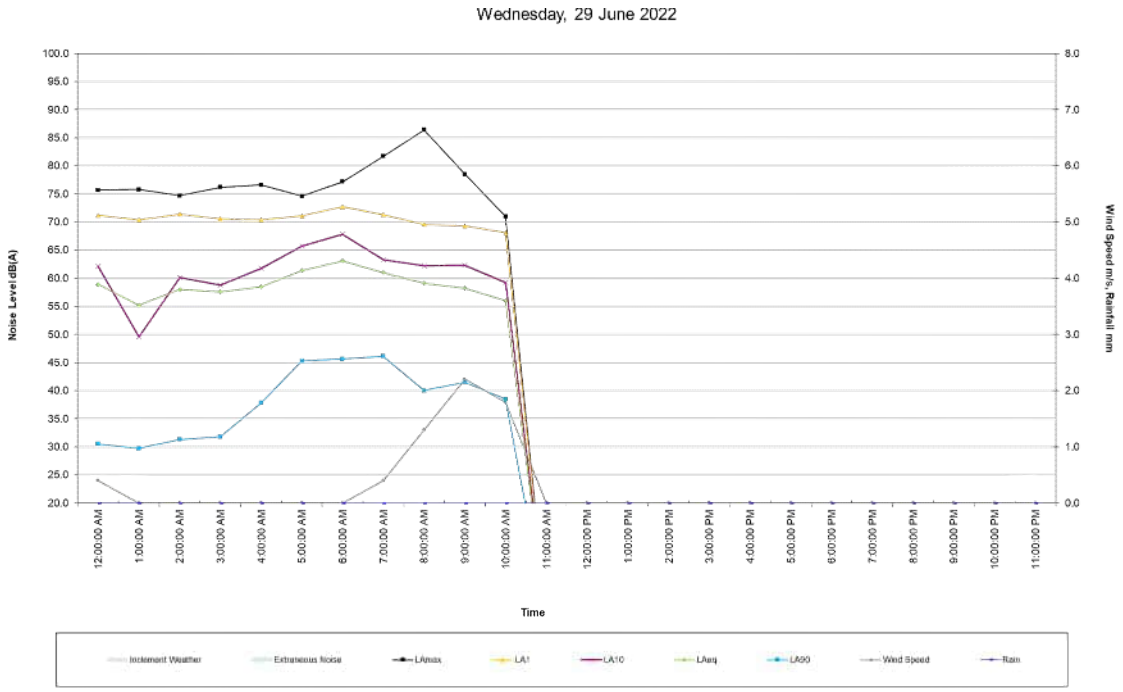


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
21/06/22 11:00	59.8	82.1	70.6	63.4	41.7	34.6	0.4	3.6	SSW	19.5	57	982	0.0
21/06/22 12:00	56.7	74.6	67.8	61.3	39.4	32.4	1.3	5.8	SSW	20.2	49	981	0.0
21/06/22 13:00	57.2	75.0	67.8	61.7	39.1	32.9	1.8	6.7	SSW	19.3	53	981	0.0
21/06/22 14:00	58.8	76.1	69.4	63.0	41.6	32.8	0.4	3.1	SSW	20.6	47	981	0.0
21/06/22 15:00	60.2	74.1	70.1	64.7	45.7	40.0	0.4	2.7	SSW	18.9	51	981	0.0
21/06/22 16:00	62.3	83.4	71.2	66.8	46.8	35.5	0.4	2.7	SSW	18.1	55	982	0.0
21/06/22 17:00	62.9	75.7	72.8	67.6	43.3	35.2	0.0	1.3	SSW	15.3	62	983	0.0
21/06/22 18:00	61.9	78.4	71.7	66.9	40.5	33.8	0.0	0.4	SSW	13.3	68	983	0.0
21/06/22 19:00	62.6	81.0	73.1	67.2	41.9	32.4	0.0	0.0	---	10.8	77	983	0.0
21/06/22 20:00	61.9	76.0	72.3	67.3	36.4	31.2	0.0	0.0	---	10.6	77	984	0.0
21/06/22 21:00	61.8	74.7	72.5	67.2	35.1	29.5	0.0	0.4	SSW	9.0	81	984	0.0
21/06/22 22:00	61.0	76.8	72.1	66.1	37.3	34.0	0.0	0.4	SSW	7.3	87	984	0.0
21/06/22 23:00	60.1	74.8	71.8	64.1	37.5	35.1	0.0	0.0	---	6.9	85	984	0.0
22/06/22 0:00	56.9	78.2	70.6	56.4	34.2	32.3	0.0	1.8	SSW	6.4	87	984	0.0
22/06/22 1:00	58.8	76.3	71.6	60.4	35.5	33.6	0.0	1.3	SSW	5.6	89	984	0.0
22/06/22 2:00	54.8	73.0	68.4	56.9	32.7	30.9	0.4	1.8	SE	5.1	90	984	0.0
22/06/22 3:00	56.6	73.4	69.6	58.7	32.8	31.1	0.0	1.3	SE	4.6	92	984	0.0
22/06/22 4:00	58.5	73.8	70.2	61.7	37.4	32.9	0.9	2.2	E	4.7	92	984	0.0
22/06/22 5:00	58.0	72.5	68.7	61.5	44.7	40.1	0.9	2.2	ESE	3.7	92	985	0.0
22/06/22 6:00	59.6	75.1	70.3	63.1	46.4	38.8	0.9	1.8	ESE	3.6	93	985	0.0
22/06/22 7:00	61.4	86.4	70.8	63.6	47.9	39.0	0.9	1.8	E	6.8	90	986	0.0
22/06/22 8:00	57.7	72.7	68.2	61.9	43.7	39.1	0.4	1.3	E	11.6	81	986	0.0
22/06/22 9:00	57.6	73.2	68.5	62.0	39.5	35.1	0.0	1.8	E	15.3	69	986	0.0
22/06/22 10:00	57.1	71.4	67.6	62.0	39.8	34.2	1.3	4.5	SSW	18.3	61	985	0.0
22/06/22 11:00	58.4	74.2	68.3	62.9	41.7	36.2	2.2	5.8	SW	20.4	55	984	0.0
22/06/22 12:00	58.0	73.0	68.1	62.6	42.4	36.3	2.8	7.2	SW	21.3	49	983	0.0
22/06/22 13:00	59.1	76.1	69.7	63.1	41.9	35.8	2.8	7.2	SW	21.7	47	982	0.0
22/06/22 14:00	58.6	73.7	69.2	62.9	44.8	36.4	2.5	9.8	SW	21.6	44	983	0.0
22/06/22 15:00	59.5	76.3	69.1	63.5	46.7	34.9	2.5	6.7	SW	20.7	47	983	0.0
22/06/22 16:00	61.9	74.1	71.4	66.3	46.3	38.2	2.2	5.8	SW	18.0	52	984	0.0
22/06/22 17:00	63.3	76.8	73.4	68.1	41.7	34.7	0.9	2.7	SW	14.0	62	984	0.0
22/06/22 18:00	62.8	77.0	72.5	67.9	41.4	32.6	0.0	1.3	SW	12.7	66	985	0.0
22/06/22 19:00	62.6	76.9	72.9	67.6	37.4	29.6	0.0	1.3	SW	11.2	72	986	0.0
22/06/22 20:00	61.4	75.3	72.1	66.6	34.5	27.8	0.0	1.8	SSE	9.9	76	986	0.0
22/06/22 21:00	60.5	75.3	72.1	65.1	31.3	24.3	0.0	1.8	SSE	8.8	83	986	0.0
22/06/22 22:00	59.8	74.5	71.4	63.7	31.3	24.3	0.4	1.3	ESE	7.0	85	986	0.0
22/06/22 23:00	59.9	75.3	72.1	63.9	30.1	24.2	0.0	0.9	ESE	6.4	81	986	0.0
23/06/22 0:00	59.3	82.5	72.0	60.8	32.0	26.4	0.0	0.0	---	4.8	88	986	0.0
23/06/22 1:00	55.7	74.0	69.6	55.8	30.7	25.6	0.0	2.2	ESE	5.3	91	986	0.0
23/06/22 2:00	56.1	73.5	69.7	57.3	32.4	26.9	0.9	2.2	ESE	5.0	92	985	0.0
23/06/22 3:00	56.8	73.2	69.7	58.8	39.5	31.7	0.9	2.2	ESE	4.0	92	985	0.0
23/06/22 4:00	58.4	72.4	69.8	62.0	42.4	36.7	0.0	1.3	ESE	3.5	93	985	0.0
23/06/22 5:00	60.3	74.5	70.5	64.4	45.1	34.4	0.0	1.3	ESE	3.3	93	986	0.0
23/06/22 6:00	62.2	75.6	71.6	66.7	48.7	37.9	0.0	1.3	ESE	3.1	94	986	0.0
23/06/22 7:00	59.6	72.9	69.6	63.6	46.6	43.2	0.4	1.8	ESE	6.4	95	987	0.0
23/06/22 8:00	57.9	71.8	67.9	61.9	44.7	40.2	0.9	2.7	SE	10.9	86	987	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
23/06/22 9:00	57.8	78.7	68.4	62.0	40.8	35.9	1.3	3.6	ESE	14.7	76	987	0.0
23/06/22 10:00	56.5	72.8	67.9	60.3	37.8	32.6	0.4	2.7	ESE	17.9	63	986	0.0
23/06/22 11:00	58.0	74.2	69.1	62.2	35.8	31.4	0.9	3.1	SSW	19.0	51	985	0.0
23/06/22 12:00	57.2	72.0	68.2	61.8	36.1	27.8	0.9	3.6	SSW	19.8	45	984	0.0
23/06/22 13:00	58.4	73.3	69.6	63.0	37.5	30.6	1.3	4.5	WSW	20.5	41	983	0.0
23/06/22 14:00	58.1	73.8	68.9	62.4	40.7	32.7	0.4	3.1	E	20.6	41	982	0.0
23/06/22 15:00	59.9	76.0	70.3	64.2	41.7	36.5	1.3	3.6	SW	20.6	44	983	0.0
23/06/22 16:00	62.6	75.1	72.3	67.2	43.9	32.7	0.4	3.6	W	18.8	45	983	0.0
23/06/22 17:00	63.0	78.4	73.1	67.7	42.7	32.2	0.9	2.7	SSW	13.9	58	984	0.0
23/06/22 18:00	61.5	77.1	72.5	66.1	37.8	32.2	0.4	1.8	S	12.1	59	984	0.0
23/06/22 19:00	61.0	77.4	71.5	66.0	36.0	26.5	0.0	1.3	S	10.7	61	985	0.0
23/06/22 20:00	60.4	76.9	71.9	64.9	32.5	26.3	0.0	0.4	SSW	8.5	70	985	0.0
23/06/22 21:00	61.6	75.3	72.6	66.7	37.9	30.4	0.0	0.0	---	7.7	73	985	0.0
23/06/22 22:00	61.3	76.8	72.2	66.3	31.8	24.4	0.0	0.9	SSW	6.6	80	985	0.0
23/06/22 23:00	60.7	77.1	73.1	64.2	28.7	20.5	0.0	0.4	SSW	4.4	88	984	0.0
24/06/22 0:00	59.5	76.1	72.2	62.2	30.0	20.9	0.0	0.9	SSW	3.3	86	984	0.0
24/06/22 1:00	57.6	76.3	71.3	57.5	21.8	18.1	0.0	0.9	S	3.2	89	984	0.0
24/06/22 2:00	55.3	73.6	68.8	56.8	19.3	18.2	0.0	0.9	S	1.8	87	984	0.0
24/06/22 3:00	57.2	74.9	70.5	59.2	18.9	18.3	0.0	0.0	---	1.8	92	983	0.0
24/06/22 4:00	58.8	74.5	70.5	62.3	41.8	37.0	0.4	1.8	SE	1.9	91	983	0.0
24/06/22 5:00	59.9	74.8	70.2	63.6	45.0	38.3	0.4	1.3	SE	1.6	93	984	0.0
24/06/22 6:00	60.0	73.7	69.8	63.6	48.5	40.4	1.3	1.8	SE	0.9	93	984	0.0
24/06/22 7:00	61.6	85.5	70.0	63.3	48.1	38.4	1.3	2.2	SE	4.2	92	985	0.0
24/06/22 8:00	56.9	74.1	68.4	59.7	43.9	40.1	0.4	1.8	SE	9.2	80	985	0.0
24/06/22 9:00	58.7	83.4	69.4	62.9	39.6	29.4	0.0	1.8	SSW	13.3	65	985	0.0
24/06/22 10:00	56.5	73.0	68.0	60.2	37.5	32.1	0.4	2.7	SW	16.2	54	984	0.0
24/06/22 11:00	57.9	76.4	68.2	62.5	40.9	34.5	1.8	4.9	WSW	18.3	48	983	0.0
24/06/22 12:00	58.7	79.2	69.8	61.9	42.3	37.6	2.7	5.8	SW	19.3	44	982	0.0
24/06/22 13:00	59.3	80.8	69.5	62.8	41.9	34.5	2.2	7.2	SW	20.3	35	981	0.0
24/06/22 14:00	58.3	73.0	67.7	62.4	44.0	30.8	2.8	7.2	SW	20.3	35	981	0.0
24/06/22 15:00	59.9	74.2	70.4	63.8	42.5	36.3	2.9	5.8	WSW	19.5	37	981	0.0
24/06/22 16:00	61.6	75.8	71.5	65.8	44.1	32.8	1.8	4.0	SW	16.9	43	982	0.0
24/06/22 17:00	62.7	77.5	71.9	67.0	45.5	35.5	0.4	1.8	W	12.3	57	982	0.0
24/06/22 18:00	61.6	77.7	72.9	65.4	39.4	32.8	1.3	2.2	SSW	11.4	59	983	0.0
24/06/22 19:00	59.5	76.3	71.1	63.1	35.7	24.7	0.9	1.8	SSW	10.2	65	984	0.0
24/06/22 20:00	58.7	75.1	70.2	62.3	29.0	21.8	0.0	0.9	S	7.3	74	984	0.0
24/06/22 21:00	60.6	75.0	72.0	64.6	31.6	21.8	0.0	1.3	S	6.1	79	984	0.0
24/06/22 22:00	60.0	76.4	72.0	63.4	36.1	31.7	0.0	0.0	---	5.1	81	984	0.0
24/06/22 23:00	59.3	75.9	72.4	61.7	32.9	31.1	0.0	1.3	S	2.8	81	983	0.0
25/06/22 0:00	56.1	74.7	69.3	57.9	29.1	27.8	0.9	2.7	ESE	3.1	85	983	0.0
25/06/22 1:00	52.5	71.4	67.2	52.4	27.8	26.7	1.3	3.1	ESE	3.0	87	983	0.0
25/06/22 2:00	52.6	72.8	66.8	51.9	29.8	25.4	0.4	2.2	ESE	2.5	88	983	0.0
25/06/22 3:00	53.5	72.9	67.8	53.7	28.4	27.2	0.4	1.3	ESE	1.9	89	982	0.0
25/06/22 4:00	53.3	73.0	66.5	55.2	29.7	27.4	0.4	2.7	SE	1.7	90	983	0.0
25/06/22 5:00	57.8	73.2	70.2	60.9	38.1	29.7	0.4	1.3	SE	1.6	90	983	0.0
25/06/22 6:00	57.4	75.6	68.8	60.3	40.4	31.4	0.9	2.7	S	1.5	91	984	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
25/06/22 7:00	56.7	72.6	68.6	59.9	44.4	38.0	0.4	2.7	ESE	4.8	89	984	0.0
25/06/22 8:00	55.2	72.2	66.8	58.0	41.3	36.7	1.3	4.0	E	9.7	78	985	0.0
25/06/22 9:00	51.6	70.8	63.8	54.4	36.0	32.1	1.8	3.6	SE	13.8	65	985	0.0
25/06/22 10:00	51.8	71.1	64.0	54.7	33.1	29.3	1.3	4.0	SE	16.9	55	984	0.0
25/06/22 11:00	52.8	72.6	65.2	55.1	36.4	30.5	1.2	7.6	SSW	19.3	43	984	0.0
25/06/22 12:00	55.6	72.0	67.8	58.4	37.9	27.9	2.5	6.3	SW	20.2	42	983	0.0
25/06/22 13:00	54.2	72.2	65.5	57.2	41.6	36.4	2.5	6.7	SW	20.1	41	982	0.0
25/06/22 14:00	55.2	73.1	67.4	57.5	38.4	31.2	2.2	6.7	SW	20.1	40	982	0.0
25/06/22 15:00	54.5	70.2	66.4	57.6	35.2	29.3	1.8	4.0	SSW	19.8	41	982	0.0
25/06/22 16:00	58.3	74.2	68.9	61.9	39.6	32.0	0.9	4.5	SSW	17.3	47	983	0.0
25/06/22 17:00	59.6	76.0	71.2	63.8	37.8	26.8	0.0	1.8	S	13.0	59	984	0.0
25/06/22 18:00	58.4	76.6	70.4	61.6	33.2	23.6	0.4	1.8	S	11.3	63	985	0.0
25/06/22 19:00	57.9	74.3	70.7	61.2	29.9	21.8	0.0	0.9	SSW	9.3	70	985	0.0
25/06/22 20:00	58.7	77.6	71.6	61.2	27.6	21.8	0.0	1.3	ESE	6.8	77	985	0.0
25/06/22 21:00	59.3	77.9	72.0	62.1	26.6	21.7	0.4	1.3	ESE	6.2	75	985	0.0
25/06/22 22:00	55.3	72.7	68.4	58.4	23.3	19.8	0.9	2.2	ESE	4.9	79	985	0.0
25/06/22 23:00	54.9	73.7	68.7	56.4	24.1	19.6	1.3	2.7	ESE	4.3	82	985	0.0
26/06/22 0:00	50.6	77.4	64.1	50.4	21.4	19.1	0.9	1.8	ESE	3.6	85	985	0.0
26/06/22 1:00	53.2	75.1	68.3	50.3	20.4	19.1	0.0	1.3	ESE	2.8	88	985	0.0
26/06/22 2:00	48.7	70.8	62.5	47.5	20.8	19.2	0.9	2.2	ESE	3.3	88	985	0.0
26/06/22 3:00	50.0	71.3	64.8	49.4	19.7	19.3	0.9	2.2	ESE	2.9	90	985	0.0
26/06/22 4:00	52.9	73.1	66.9	53.9	27.4	20.7	0.9	2.2	SE	2.6	90	985	0.0
26/06/22 5:00	52.9	70.9	66.3	55.0	32.0	20.1	0.9	2.2	SE	2.4	90	986	0.0
26/06/22 6:00	53.8	71.2	66.8	56.3	36.0	28.9	1.3	2.7	SE	2.4	92	986	0.0
26/06/22 7:00	56.9	80.8	69.5	57.7	41.5	34.7	1.3	3.1	SE	4.6	90	987	0.0
26/06/22 8:00	54.6	71.3	66.6	57.0	40.7	34.6	1.8	3.6	ESE	10.1	78	987	0.0
26/06/22 9:00	53.5	74.4	66.6	55.5	37.1	30.6	1.3	3.1	ESE	14.7	63	987	0.0
26/06/22 10:00	54.0	71.3	66.4	57.1	34.7	25.1	0.4	3.1	E	18.2	48	987	0.0
26/06/22 11:00	54.0	71.2	66.6	56.6	34.3	25.3	0.9	3.1	E	18.9	45	986	0.0
26/06/22 12:00	53.2	73.5	65.2	56.1	32.8	26.1	1.3	4.0	S	19.8	42	984	0.0
26/06/22 13:00	54.7	72.9	67.3	56.7	32.6	25.3	0.9	4.5	S	20.1	40	984	0.0
26/06/22 14:00	55.7	73.6	67.7	58.6	34.6	27.2	1.3	3.6	SW	20.7	39	983	0.0
26/06/22 15:00	56.8	72.5	68.3	60.3	36.0	26.5	0.9	3.1	WSW	20.4	37	983	0.0
26/06/22 16:00	59.6	75.6	70.6	63.7	39.8	29.6	0.4	2.7	SSW	17.9	43	984	0.0
26/06/22 17:00	61.3	76.4	71.6	65.9	38.8	26.4	0.0	0.9	ESE	14.2	52	984	0.0
26/06/22 18:00	61.3	75.0	71.4	66.0	36.4	23.8	0.0	1.3	WSW	10.7	64	985	0.0
26/06/22 19:00	60.8	75.6	71.7	65.2	28.5	22.8	0.4	4.0	ENE	10.2	69	986	0.0
26/06/22 20:00	59.8	76.6	71.9	64.1	25.6	20.6	0.4	2.2	ENE	8.2	73	986	0.0
26/06/22 21:00	60.7	77.6	72.4	64.9	26.0	19.6	0.4	2.7	ENE	8.8	77	986	0.0
26/06/22 22:00	58.4	76.5	71.9	59.5	21.8	19.6	0.4	2.2	S	7.3	79	987	0.0
26/06/22 23:00	58.4	76.9	71.5	60.8	26.0	21.1	0.4	1.3	S	6.6	86	986	0.0
27/06/22 0:00	56.5	75.0	70.0	57.5	24.3	22.3	0.0	1.3	E	6.5	89	986	0.0
27/06/22 1:00	55.7	74.8	70.0	55.7	21.6	20.8	0.9	1.8	E	5.4	85	986	0.0
27/06/22 2:00	52.2	73.1	66.3	50.8	21.7	21.1	0.4	2.2	E	4.8	89	985	0.0
27/06/22 3:00	54.8	74.7	68.7	56.3	22.5	21.5	0.4	1.3	SSE	4.4	88	985	0.0
27/06/22 4:00	57.8	73.6	69.7	61.3	32.5	25.1	0.4	2.7	SSW	4.4	92	985	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
27/06/22 5:00	59.9	74.9	70.3	63.7	43.0	31.8	0.4	1.3	SE	3.6	91	985	0.0
27/06/22 6:00	60.7	79.0	70.7	63.9	47.5	37.4	0.0	1.3	S	4.2	92	985	0.0
27/06/22 7:00	61.6	85.5	71.1	63.6	46.1	37.1	0.4	1.8	E	7.1	89	986	0.0
27/06/22 8:00	58.4	73.4	69.4	62.2	44.6	39.5	0.4	2.2	S	7.9	86	986	0.0
27/06/22 9:00	58.7	75.6	69.3	63.3	43.0	36.2	0.4	3.6	S	12.8	72	986	0.0
27/06/22 10:00	57.1	77.2	68.6	60.2	39.7	33.5	2.7	6.7	SW	17.2	55	986	0.0
27/06/22 11:00	57.4	72.7	66.5	61.7	44.2	38.3	2.2	10.3	SSW	18.6	48	985	0.0
27/06/22 12:00	57.3	72.8	67.1	60.9	47.1	41.2	2.4	10.7	SSW	18.7	47	983	0.0
27/06/22 13:00	59.3	74.6	69.2	63.0	48.6	41.5	2.4	10.7	SSW	18.7	48	983	0.0
27/06/22 14:00	59.5	74.5	68.8	63.4	48.8	42.5	4.7	10.7	SW	18.4	48	983	0.0
27/06/22 15:00	60.4	74.8	70.1	64.6	47.1	40.0	4.1	10.3	SW	17.7	47	983	0.0
27/06/22 16:00	63.7	77.8	73.3	67.8	47.7	40.0	3.5	8.5	SW	15.3	50	983	0.0
27/06/22 17:00	61.4	73.7	70.7	66.2	42.9	37.0	2.5	6.3	SW	12.9	57	984	0.0
27/06/22 18:00	61.4	76.6	71.6	66.0	41.1	35.0	2.7	4.9	SW	11.2	59	984	0.0
27/06/22 19:00	61.4	76.7	72.1	66.6	39.7	34.4	2.2	6.7	SW	11.3	61	985	0.0
27/06/22 20:00	59.7	76.6	71.3	64.3	37.3	32.2	2.5	6.3	SW	10.1	64	985	0.0
27/06/22 21:00	60.4	77.4	71.4	65.2	36.1	27.2	2.7	4.9	SSW	8.2	70	985	0.0
27/06/22 22:00	57.4	74.6	70.3	59.4	27.7	22.8	0.9	2.7	SSW	7.4	73	985	0.0
27/06/22 23:00	56.1	75.9	69.8	56.9	27.4	23.2	0.4	2.2	ESE	6.3	77	986	0.0
28/06/22 0:00	56.0	72.9	69.2	59.1	22.2	19.8	0.4	2.7	ESE	5.8	78	985	0.0
28/06/22 1:00	52.3	73.2	66.7	51.0	22.6	20.5	0.4	2.2	S	5.2	80	985	0.0
28/06/22 2:00	57.5	74.3	70.0	61.0	30.2	26.3	0.4	2.2	ESE	4.3	83	985	0.0
28/06/22 3:00	54.7	79.6	69.3	50.5	22.8	19.7	0.0	0.0	---	2.7	85	985	0.0
28/06/22 4:00	60.2	76.1	72.2	64.1	33.9	30.6	0.0	0.9	ESE	2.8	88	985	0.0
28/06/22 5:00	61.2	74.8	71.1	65.2	43.1	29.6	0.0	1.3	ESE	1.5	89	985	0.0
28/06/22 6:00	62.7	75.9	72.0	66.6	47.4	38.8	0.4	2.2	S	2.5	91	986	0.0
28/06/22 7:00	62.8	86.7	72.1	64.8	43.6	36.5	0.0	1.3	S	5.8	88	987	0.0
28/06/22 8:00	59.1	83.7	69.5	63.2	45.8	40.5	2.2	6.3	ESE	11.1	68	987	0.0
28/06/22 9:00	59.3	76.1	69.4	63.2	48.7	44.4	4.2	8.5	ESE	14.0	62	987	0.0
28/06/22 10:00	59.7	74.3	70.7	64.0	46.2	42.4	4.2	8.5	ESE	15.9	58	987	0.0
28/06/22 11:00	58.7	73.7	68.9	62.9	46.5	42.3	3.7	8.0	ESE	17.1	52	986	0.0
28/06/22 12:00	57.6	74.6	68.1	61.8	44.3	40.0	3.7	8.0	ESE	17.5	50	985	0.0
28/06/22 13:00	57.5	72.5	68.2	61.9	41.9	36.5	2.9	7.6	ESE	17.8	49	985	0.0
28/06/22 14:00	58.4	75.4	69.2	62.5	43.5	35.4	2.9	7.6	ESE	17.8	48	984	0.0
28/06/22 15:00	59.4	74.7	69.8	63.9	44.0	39.5	3.3	7.6	ESE	16.8	52	984	0.0
28/06/22 16:00	59.1	74.9	70.0	63.4	42.6	37.7	2.2	6.7	SE	14.5	60	985	0.0
28/06/22 17:00	60.4	73.8	70.6	65.2	42.3	37.5	1.8	4.5	ESE	11.9	67	986	0.0
28/06/22 18:00	60.4	74.5	70.5	65.1	40.4	35.8	0.4	1.8	ESE	9.6	74	986	0.0
28/06/22 19:00	61.1	74.9	71.4	66.1	40.9	32.8	0.4	2.2	ESE	8.6	77	987	0.0
28/06/22 20:00	61.3	74.9	71.7	66.7	38.9	34.9	0.9	1.8	ESE	7.0	81	987	0.0
28/06/22 21:00	61.0	76.0	72.6	65.6	36.6	31.4	0.4	2.2	ESE	7.2	83	987	0.0
28/06/22 22:00	60.2	74.2	70.9	65.1	33.3	30.6	0.4	1.3	ESE	6.8	84	987	0.0
28/06/22 23:00	60.8	77.3	72.0	65.4	33.4	30.2	0.0	1.8	ESE	5.3	88	987	0.0
29/06/22 0:00	58.9	75.7	71.2	62.1	30.5	27.9	0.4	2.2	SSE	4.4	89	986	0.0
29/06/22 1:00	55.2	75.8	70.4	49.6	29.7	27.8	0.0	1.8	SSE	4.5	91	986	0.0
29/06/22 2:00	58.0	74.7	71.4	60.1	31.3	27.2	0.0	1.3	SSE	3.9	92	985	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
29/06/22 3:00	57.6	76.2	70.6	58.8	31.8	28.8	0.0	1.3	SSE	3.3	93	985	0.0
29/06/22 4:00	58.5	76.6	70.4	61.8	37.8	31.0	0.0	1.3	ESE	2.7	94	985	0.0
29/06/22 5:00	61.4	74.6	71.1	65.7	45.3	34.9	0.0	1.3	S	1.7	94	986	0.0
29/06/22 6:00	63.1	77.2	72.7	67.8	45.6	38.6	0.0	1.3	S	3.3	95	986	0.0
29/06/22 7:00	61.0	81.7	71.3	63.3	46.1	38.2	0.4	2.2	S	7.8	95	987	0.0
29/06/22 8:00	59.1	86.4	69.6	62.2	40.0	33.7	1.3	3.6	ESE	11.7	85	987	0.0
29/06/22 9:00	58.2	78.5	69.3	62.3	41.5	35.9	2.2	4.9	ESE	13.6	79	987	0.0
29/06/22 10:00	56.0	71.0	68.1	59.2	38.5	33.8	1.8	4.5	ESE	15.7	71	987	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP9

Address	554 Millmerran Inglewood Road	**Monitoring Start**	21/06/2022	**Dominant Road**	Millmerran Inglewood Road
Suburb	Millmerran	**Monitoring Finish**	29/06/2022	**Dist. to Road (m)**	130
District	Toowoomba	**Mic. Height (m)**	2.4	**Start Cal. (dB(A))**	94.0
Latitude	-27.906883°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	94.2
Longitude	151.263600°	**Monitor Serial**	11107	**Operator**	LAN
Lot No.	2RP233820	**Measurement**	Facade	**Sample Interval**	1 hour

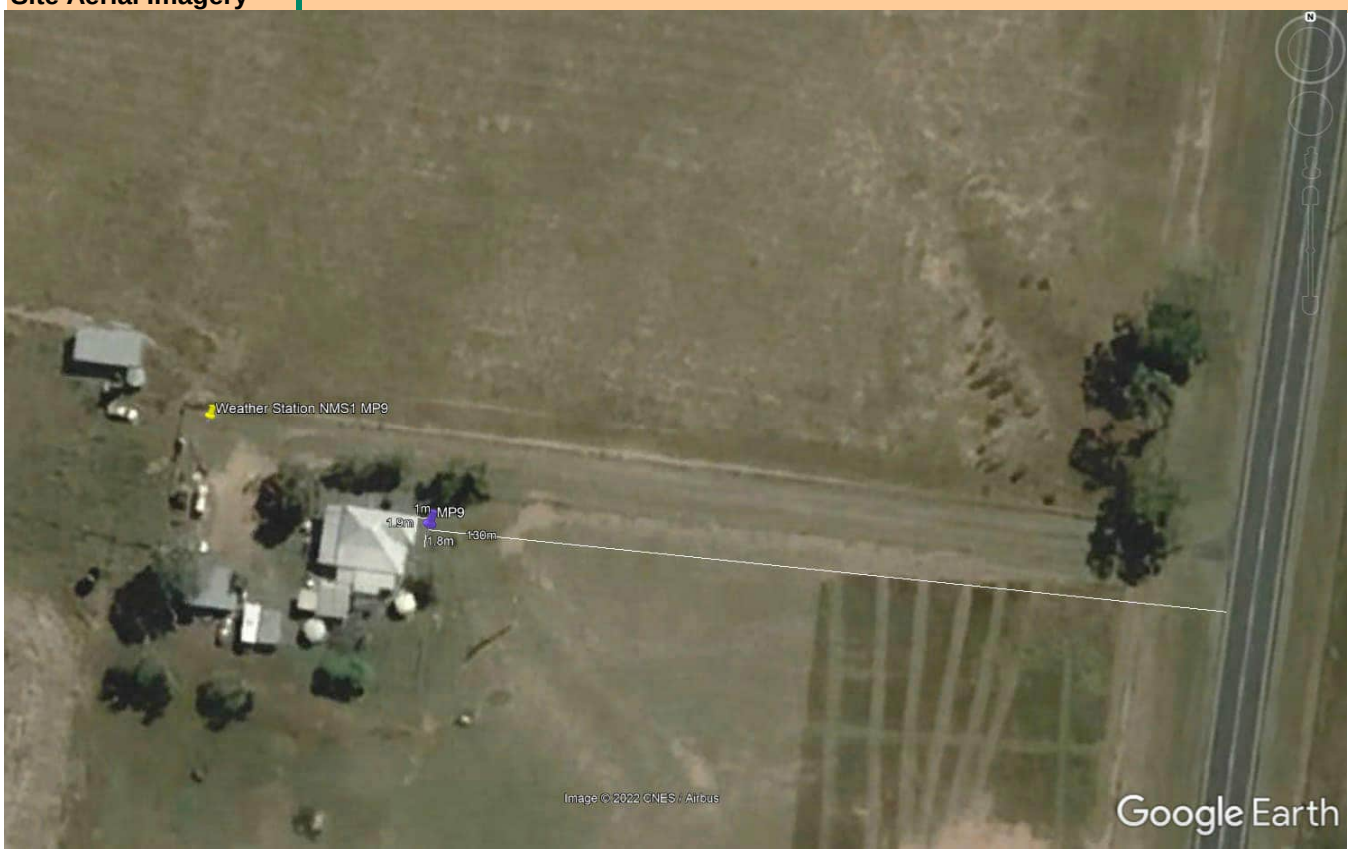
Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
52.5	**53.6**	**58.5**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Tuesday, 21 June 2022	-^	-^	-^
Wednesday, 22 June 2022	54.4	56.2	60.2
Thursday, 23 June 2022	52.5	52.2	57.9
Friday, 24 June 2022	48.5	49.6	53.5
Saturday, 25 June 2022	48.8	50.5	55.6
Sunday, 26 June 2022	49.5	50.9	56.9
Monday, 27 June 2022	52.2	53.6	59.9

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery



Site Photos

Attended Measurement Summary

Attended Measurement #1: Tuesday, 21 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
1:16 PM	1:31 PM	Attended	48.0	25.7	66.7	58.6	53.0	31.0
1:00 PM	2:00 PM	Logger	54.1	26.9	74.5	67.0	54.1	34.4

Comments

Traffic noise from Millmerran Inglewood Road is the dominant noise. Distant industrial noise and overhead aircraft.

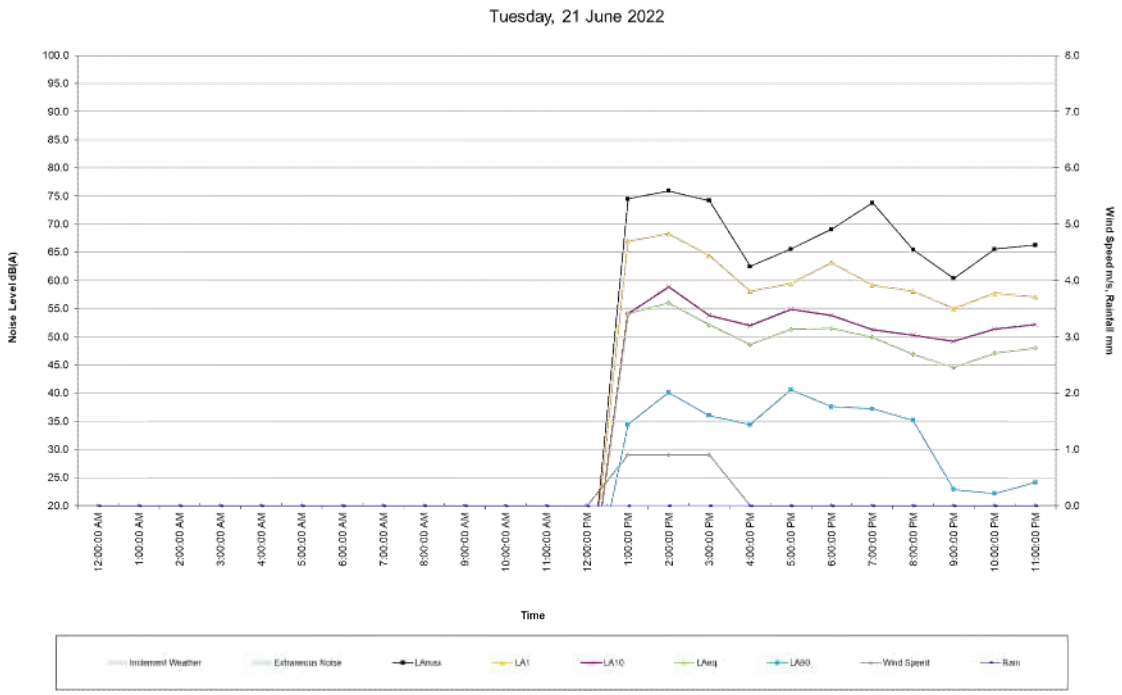
Attended Measurement #2: Wednesday, 29 June 2022

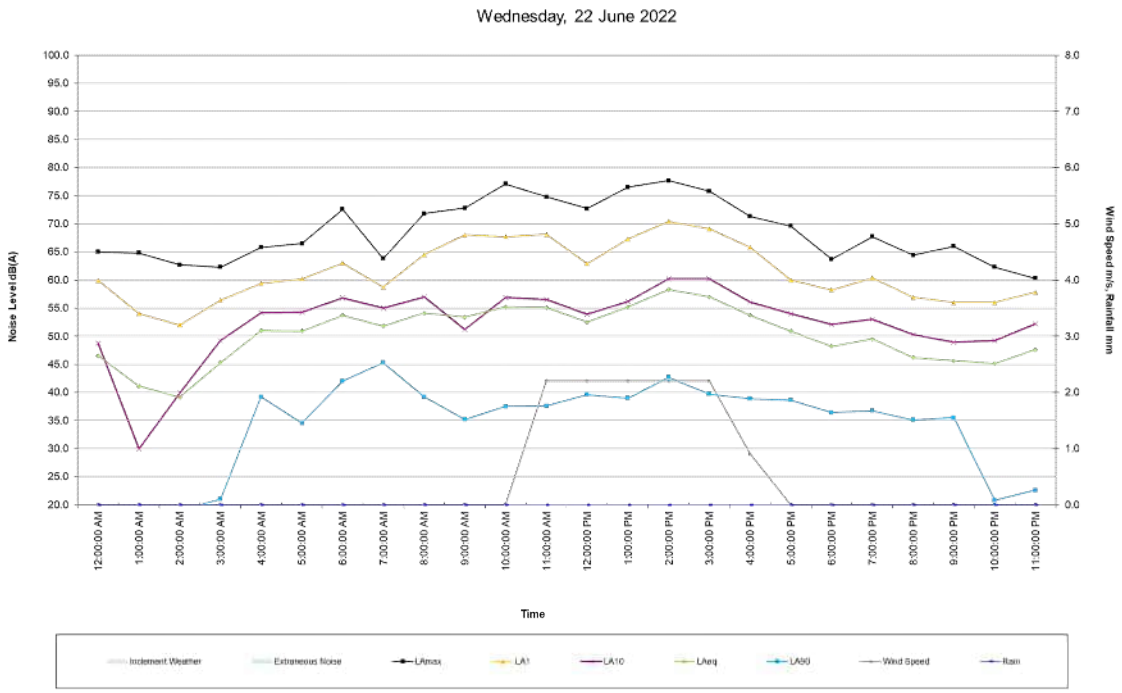
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
2:17 PM	2:32 PM	Attended	50.3	32.9	65.8	61.9	53.9	37.4
2:00 PM	3:00 PM	Logger	52.3	32.4	70.3	64.7	55.2	36.9

Comments

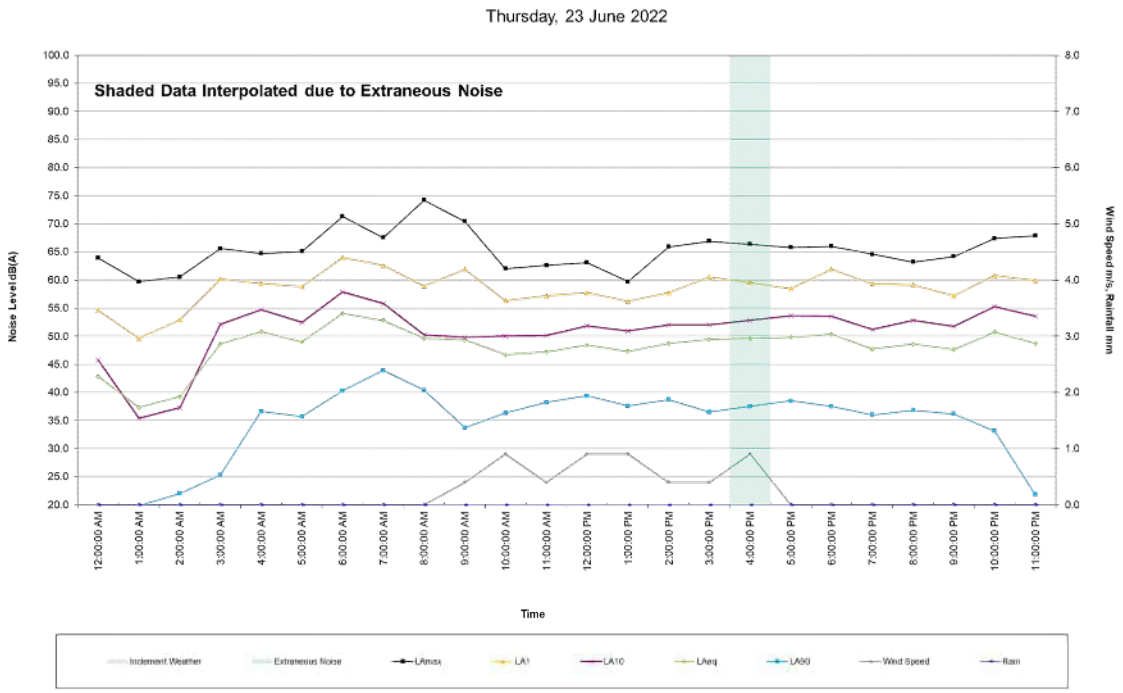
The noise is dominated by traffic noise, although the majority is traffic hum as there is very little traffic. There was a plane that seemed to blend with the traffic hum during the measurement. 2:17 min of Millmerran Inglewood Rd car noise at 46-57 dBA. 0:26 min of Millmerran Inglewood Rd H.V. noise at 56-65 dBA. 0:32 min of Distant Truck noise at 45-59 dBA. 9:17 min of Distant traffic noise at 34-49 dBA. 1:17 min of aircraft noise at 47-59 dBA. 1:11 min of bird noise at 40-48 dBA.

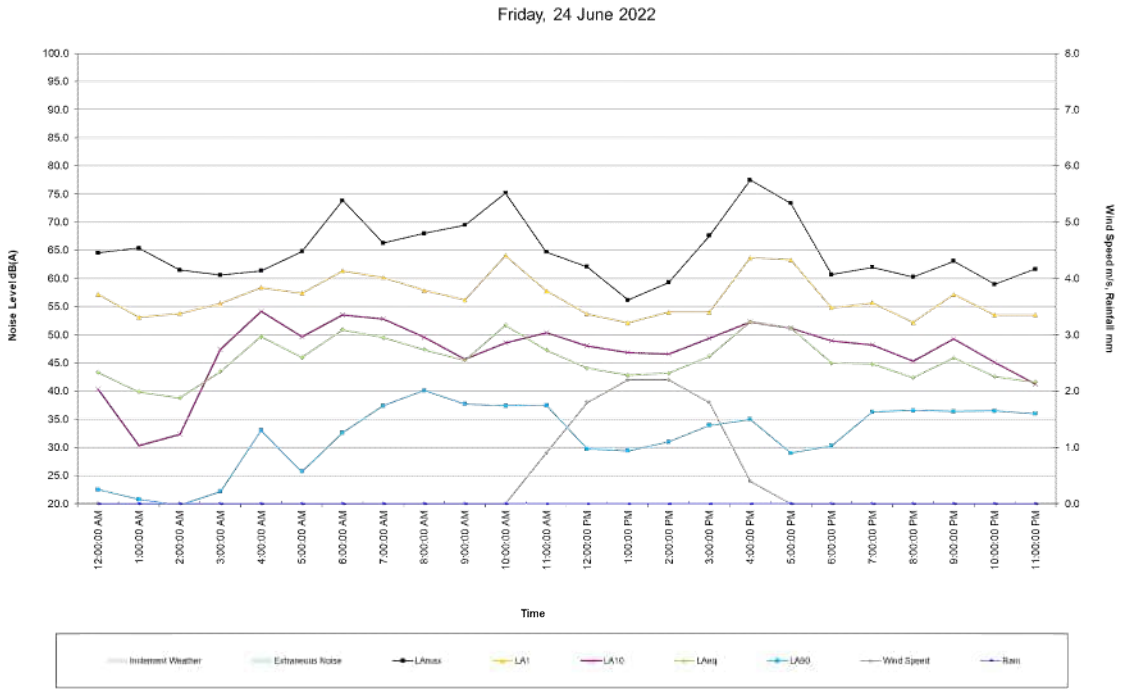
Site Noise and Weather Conditions



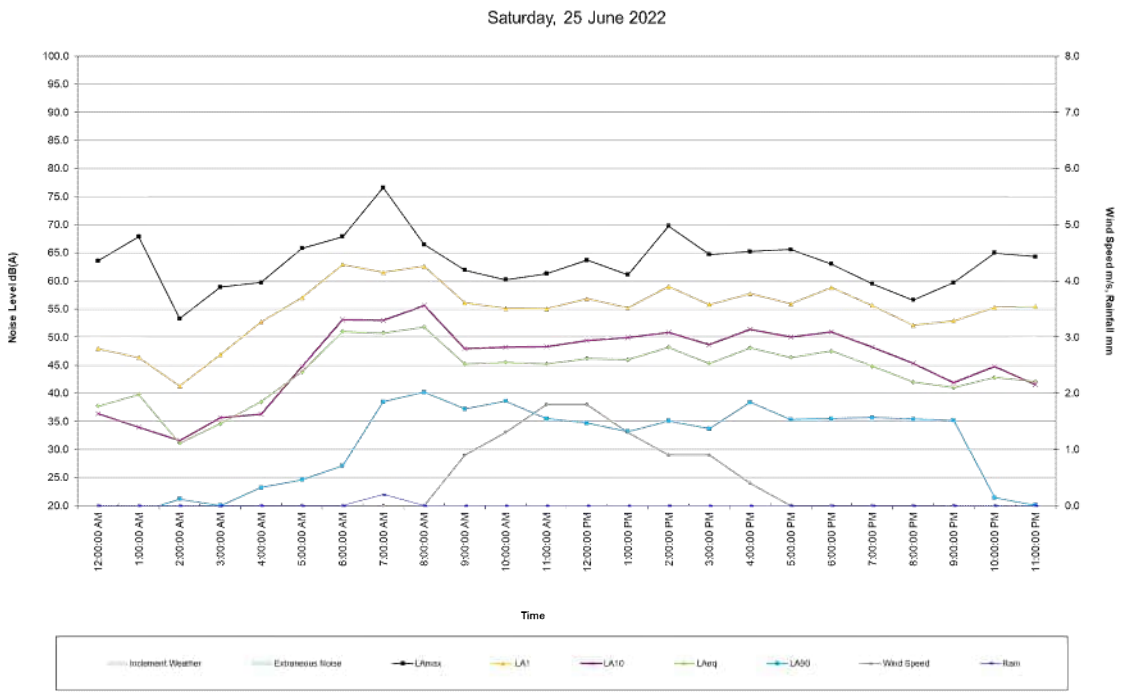


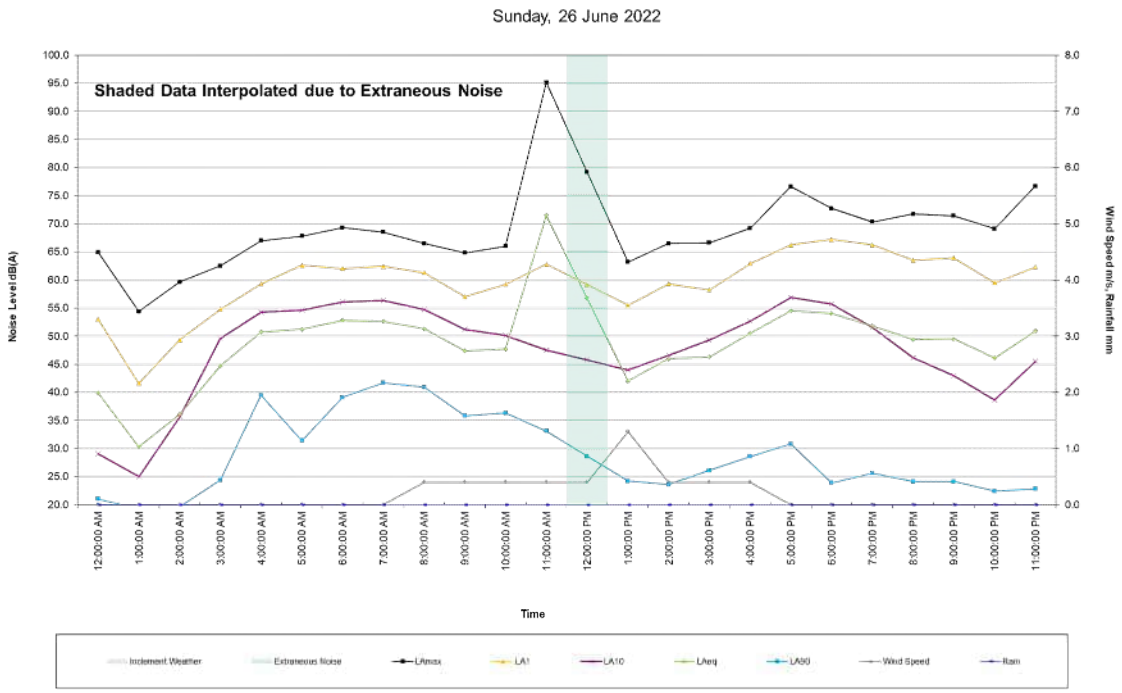
Site Noise and Weather Conditions



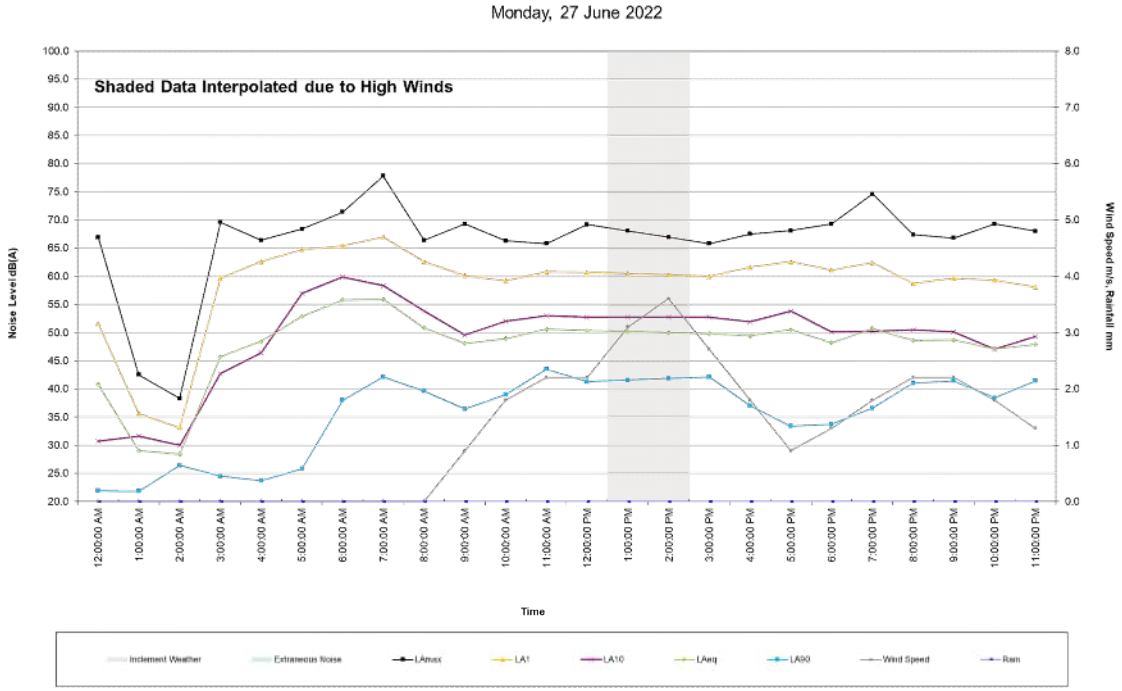


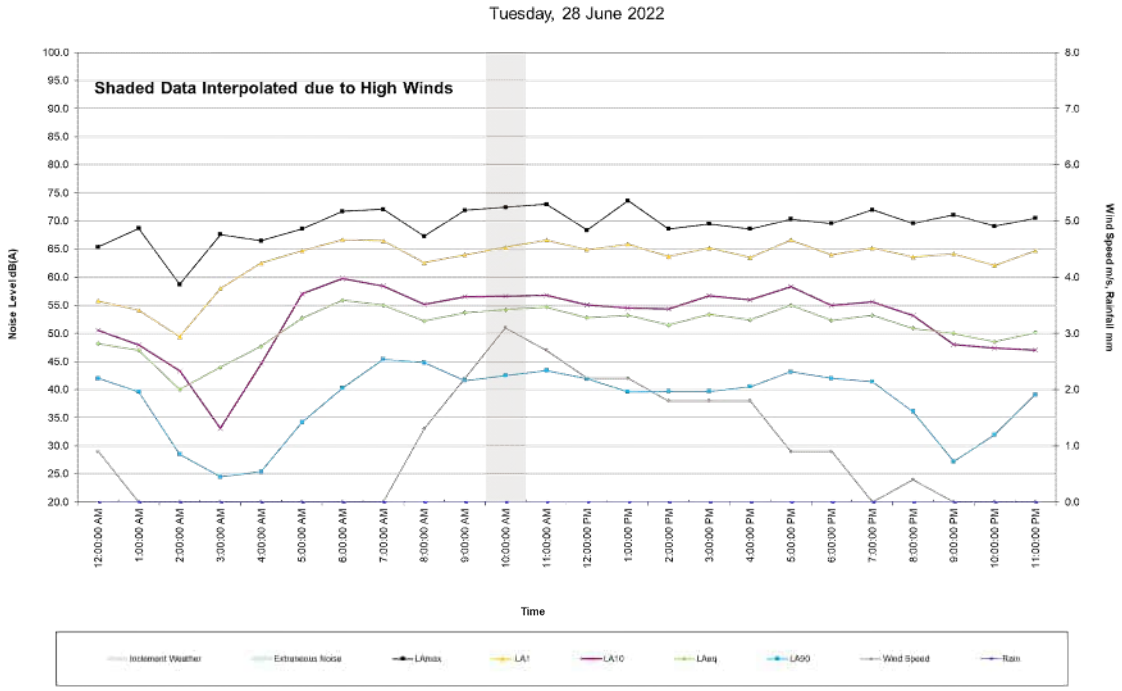
Site Noise and Weather Conditions



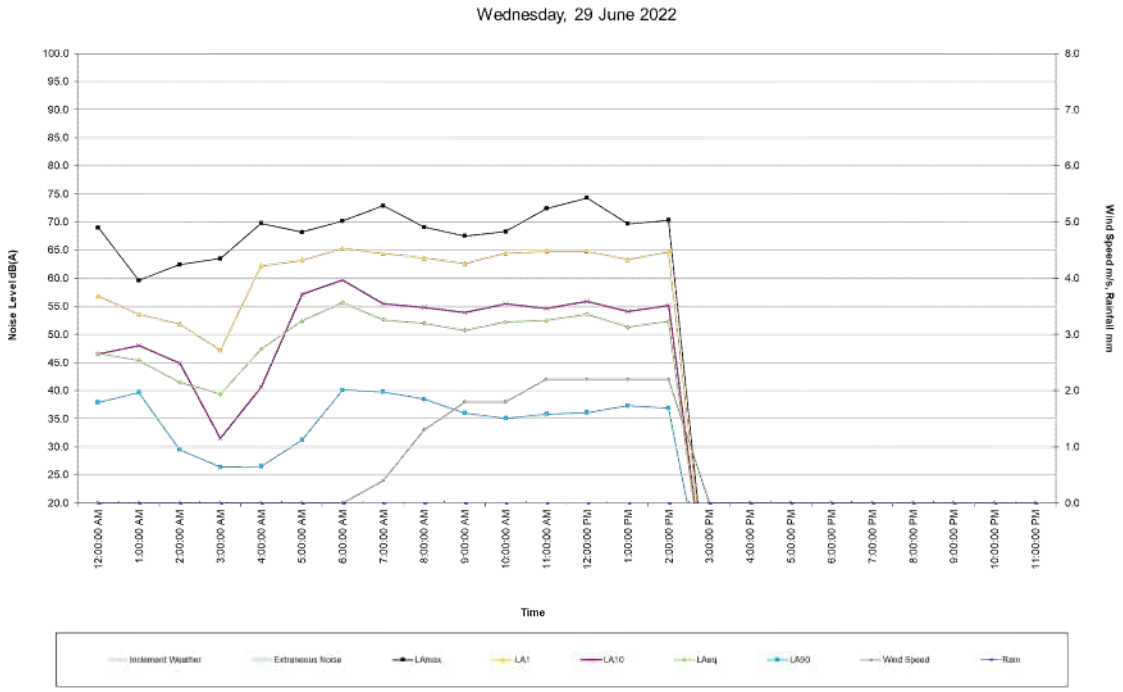


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
21/06/22 13:00	54.1	74.5	67.0	54.1	34.4	26.9	0.9	4.0	W	20.8	48	978	0.0
21/06/22 14:00	56.0	75.9	68.3	58.9	40.1	32.5	0.9	4.0	SSW	18.4	52	978	0.0
21/06/22 15:00	52.1	74.2	64.4	53.8	36.0	29.6	0.9	3.1	WSW	19.2	49	978	0.0
21/06/22 16:00	48.6	62.5	58.1	52.0	34.4	25.8	0.0	1.8	SW	15.6	61	979	0.0
21/06/22 17:00	51.3	65.6	59.5	54.9	40.6	30.1	0.0	0.0	---	12.9	70	979	0.0
21/06/22 18:00	51.5	69.1	63.2	53.8	37.6	34.8	0.0	0.0	---	10.7	76	979	0.0
21/06/22 19:00	49.9	73.8	59.2	51.3	37.2	35.0	0.0	0.0	---	8.7	83	979	0.0
21/06/22 20:00	46.9	65.5	58.1	50.3	35.2	34.6	0.0	0.0	---	7.7	85	980	0.0
21/06/22 21:00	44.6	60.4	55.0	49.2	22.9	20.4	0.0	0.0	---	6.8	85	980	0.0
21/06/22 22:00	47.1	65.6	57.7	51.4	22.2	19.6	0.0	0.0	---	6.3	87	980	0.0
21/06/22 23:00	48.0	66.3	57.1	52.2	24.1	19.0	0.0	0.0	---	5.2	88	980	0.0
22/06/22 0:00	46.5	65.0	59.9	48.8	18.9	18.2	0.0	0.0	---	4.7	89	980	0.0
22/06/22 1:00	41.1	64.8	54.0	30.0	19.4	18.6	0.0	0.0	---	4.1	89	980	0.0
22/06/22 2:00	39.1	62.7	52.0	39.9	19.0	18.2	0.0	0.0	---	3.7	90	980	0.0
22/06/22 3:00	45.3	62.3	56.4	49.2	21.0	18.2	0.0	0.0	---	3.5	90	980	0.0
22/06/22 4:00	51.0	65.8	59.4	54.2	39.2	26.8	0.0	0.0	---	3.2	90	980	0.0
22/06/22 5:00	50.9	66.5	60.2	54.3	34.5	25.2	0.0	0.0	---	3.3	91	980	0.0
22/06/22 6:00	53.7	72.6	63.0	56.8	42.0	32.1	0.0	0.0	---	2.4	91	981	0.0
22/06/22 7:00	51.8	63.8	58.7	55.0	45.3	39.1	0.0	0.0	---	6.8	92	982	0.0
22/06/22 8:00	54.1	71.8	64.5	57.0	39.2	33.0	0.0	0.4	SW	11.0	90	982	0.0
22/06/22 9:00	53.4	72.8	68.0	51.2	35.2	28.4	0.0	0.9	SW	14.8	71	982	0.0
22/06/22 10:00	55.2	77.1	67.7	56.9	37.5	29.7	0.0	1.8	SW	18.8	59	982	0.0
22/06/22 11:00	55.1	74.8	68.1	56.5	37.6	31.7	2.2	7.6	WSW	20.3	53	981	0.0
22/06/22 12:00	52.5	72.7	62.9	53.9	39.6	32.2	2.2	6.7	WSW	20.3	48	980	0.0
22/06/22 13:00	55.2	76.5	67.3	56.2	39.0	32.1	2.2	6.3	WSW	20.8	47	980	0.0
22/06/22 14:00	58.3	77.7	70.4	60.2	42.7	35.1	2.2	5.8	WSW	20.4	45	980	0.0
22/06/22 15:00	57.0	75.8	69.1	60.2	39.7	33.7	2.2	5.4	WSW	19.4	46	980	0.0
22/06/22 16:00	53.7	71.3	65.8	56.1	38.9	28.5	0.9	4.5	WSW	16.7	53	980	0.0
22/06/22 17:00	50.9	69.6	60.0	54.0	38.6	35.4	0.0	1.3	WSW	11.9	68	981	0.0
22/06/22 18:00	48.2	63.7	58.2	52.1	36.4	35.2	0.0	0.0	---	9.1	78	981	0.0
22/06/22 19:00	49.5	67.7	60.4	53.0	36.7	34.7	0.0	0.0	---	7.7	81	982	0.0
22/06/22 20:00	46.2	64.4	56.9	50.3	35.1	34.3	0.0	0.0	---	7.5	84	982	0.0
22/06/22 21:00	45.6	66.0	56.0	48.9	35.5	34.7	0.0	0.0	---	6.9	84	982	0.0
22/06/22 22:00	45.1	62.3	56.0	49.2	20.8	17.9	0.0	0.9	WSW	7.1	85	982	0.0
22/06/22 23:00	47.6	60.3	57.8	52.2	22.6	19.2	0.0	0.0	---	5.9	88	982	0.0
23/06/22 0:00	42.8	63.9	54.6	45.8	19.1	17.4	0.0	0.0	---	5.3	88	982	0.0
23/06/22 1:00	37.3	59.7	49.6	35.4	19.8	18.4	0.0	0.0	---	5.1	88	981	0.0
23/06/22 2:00	39.2	60.5	52.9	37.3	22.0	19.7	0.0	0.0	---	5.7	87	981	0.0
23/06/22 3:00	48.6	65.6	60.2	52.1	25.3	20.6	0.0	0.4	WSW	3.1	87	981	0.0
23/06/22 4:00	50.8	64.7	59.4	54.7	36.6	27.3	0.0	0.0	---	2.2	89	982	0.0
23/06/22 5:00	49.0	65.1	58.8	52.5	35.7	28.6	0.0	0.0	---	1.6	89	982	0.0
23/06/22 6:00	54.0	71.3	64.0	57.9	40.3	32.1	0.0	0.0	---	1.0	90	983	0.0
23/06/22 7:00	52.8	67.5	62.6	55.8	43.9	39.1	0.0	0.0	---	5.2	91	983	0.0
23/06/22 8:00	49.6	74.2	58.9	50.2	40.4	35.5	0.0	0.0	---	11.3	84	983	0.0
23/06/22 9:00	49.3	70.4	61.9	49.8	33.7	29.6	0.4	2.7	ENE	15.6	71	983	0.0
23/06/22 10:00	46.7	62.0	56.3	50.0	36.3	27.1	0.9	2.7	ENE	17.9	60	983	0.0
23/06/22 11:00	47.2	62.6	57.2	50.1	38.2	29.8	0.4	2.2	E	19.7	49	982	0.0
23/06/22 12:00	48.4	63.1	57.7	51.8	39.4	28.3	0.9	2.7	NW	19.9	46	980	0.0
23/06/22 13:00	47.3	59.7	56.2	50.9	37.6	26.7	0.9	3.1	SSW	20.5	38	980	0.0
23/06/22 14:00	48.7	65.9	57.7	52.0	38.7	33.0	0.4	2.7	S	20.3	37	979	0.0
23/06/22 15:00	49.4	66.9	60.5	52.0	36.5	29.6	0.4	2.7	W	19.7	43	980	0.0
23/06/22 16:00	49.6	66.4	59.5	52.8	37.5	32.3	0.9	3.1	SW	16.2	48	980	0.0
23/06/22 17:00	49.8	65.8	58.5	53.6	38.5	34.9	0.0	0.4	SW	10.1	62	980	0.0
23/06/22 18:00	50.3	66.0	61.9	53.5	37.5	36.2	0.0	1.3	SW	8.3	71	980	0.0
23/06/22 19:00	47.7	64.6	59.3	51.2	36.0	35.1	0.0	0.0	---	6.8	74	981	0.0
23/06/22 20:00	48.6	63.2	59.1	52.8	36.8	36.3	0.0	0.0	---	6.4	76	981	0.0
23/06/22 21:00	47.6	64.2	57.2	51.7	36.2	35.7	0.0	0.0	---	5.9	80	981	0.0
23/06/22 22:00	50.7	67.4	60.8	55.3	33.1	20.7	0.0	1.3	SW	4.9	78	981	0.0
23/06/22 23:00	48.7	67.9	59.9	53.5	21.8	19.5	0.0	2.2	S	3.6	82	980	0.0
24/06/22 0:00	43.3	64.6	57.2	40.4	22.5	20.2	0.0	0.0	---	2.6	85	980	0.0
24/06/22 1:00	39.9	65.4	53.1	30.3	20.8	19.1	0.0	0.0	---	1.7	86	980	0.0
24/06/22 2:00	38.8	61.5	53.8	32.3	19.7	18.5	0.0	0.0	---	1.2	88	980	0.0
24/06/22 3:00	43.5	60.6	55.6	47.4	22.2	18.4	0.0	0.0	---	0.7	88	980	0.0
24/06/22 4:00	49.7	61.4	58.4	54.2	33.0	22.4	0.0	0.0	---	0.4	88	980	0.0
24/06/22 5:00	46.0	64.8	57.4	49.7	25.7	20.6	0.0	0.0	---	-0.3	89	980	0.0
24/06/22 6:00	50.9	73.9	61.4	53.5	32.6	26.2	0.0	0.0	---	-0.2	89	981	0.0
24/06/22 7:00	49.5	66.3	60.2	52.8	37.4	27.4	0.0	0.0	---	3.4	91	981	0.0
24/06/22 8:00	47.4	68.0	57.9	49.6	40.1	37.4	0.0	0.4	S	10.1	80	981	0.0
24/06/22 9:00	45.5	69.5	56.2	45.7	37.7	36.5	0.0	0.9	ENE	14.5	63	981	0.0
24/06/22 10:00	51.7	75.2	64.1	48.6	37.4	36.0	0.0	1.8	ENE	17.8	51	980	0.0
24/06/22 11:00	47.3	64.7	57.8	50.4	37.5	30.3	0.9	3.6	WSW	18.7	44	980	0.0
24/06/22 12:00	44.1	62.1	53.7	48.0	29.7	24.2	1.8	5.8	W	19.6	37	979	0.0
24/06/22 13:00	42.8	56.2	52.1	46.9	29.4	23.7	2.2	5.8	WSW	19.6	36	978	0.0
24/06/22 14:00	43.2	59.3	54.0	46.6	31.0	26.4	2.2	4.9	W	19.4	37	978	0.0
24/06/22 15:00	46.2	67.6	54.0	49.4	33.9	28.9	1.8	5.4	W	18.3	41	978	0.0
24/06/22 16:00	52.3	77.5	63.7	52.3	35.0	27.8	0.4	3.6	W	14.3	53	978	0.0
24/06/22 17:00	51.2	73.4	63.3	51.2	29.0	22.7	0.0	0.0	---	8.2	68	979	0.0
24/06/22 18:00	45.0	60.7	54.8	48.9	30.3	21.7	0.0	0.4	W	5.7	78	979	0.0
24/06/22 19:00	44.8	62.0	55.7	48.2	36.3	35.8	0.0	0.0	---	6.5	75	980	0.0
24/06/22 20:00	42.4	60.3	52.2	45.3	36.6	35.9	0.0	0.0	---	5.2	79	980	0.0
24/06/22 21:00	45.9	63.1	57.2	49.3	36.4	36.0	0.0	0.0	---	4.1	84	980	0.0
24/06/22 22:00	42.6	59.0	53.5	45.1	36.5	35.9	0.0	0.0	---	3.5	84	980	0.0
24/06/22 23:00	41.6	61.7	53.5	41.3	36.0	35.7	0.0	0.0	---	1.9	86	979	0.0
25/06/22 0:00	37.7	63.6	47.9	36.4	19.4	18.2	0.0	0.0	---	1.8	88	979	0.0
25/06/22 1:00	39.8	67.9	46.4	33.9	18.8	17.8	0.0	0.0	---	0.8	88	979	0.0
25/06/22 2:00	31.1	53.3	41.3	31.6	21.2	19.3	0.0	0.0	---	0.5	89	979	0.0
25/06/22 3:00	34.6	58.9	46.9	35.7	20.0	18.9	0.0	0.0	---	-0.3	89	979	0.0
25/06/22 4:00	38.5	59.7	52.7	36.3	23.2	21.9	0.0	0.0	---	-0.4	89	979	0.0
25/06/22 5:00	43.8	65.8	57.0	44.8	24.6	21.9	0.0	0.0	---	-0.2	90	980	0.0
25/06/22 6:00	51.0	67.9	62.9	53.1	27.1	23.0	0.0	0.0	---	0.0	90	980	0.0
25/06/22 7:00	50.7	76.6	61.5	53.0	38.5	28.7	0.0	0.0	---	4.1	91	981	0.2
25/06/22 8:00	51.8	66.5	62.6	55.6	40.2	37.3	0.0	0.0	---	11.2	81	981	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
25/06/22 9:00	45.2	61.9	56.1	47.9	37.2	36.2	0.9	3.6	S	15.6	57	981	0.0
25/06/22 10:00	45.5	60.2	55.1	48.2	38.6	35.8	1.3	4.5	S	17.1	50	981	0.0
25/06/22 11:00	45.2	61.3	55.0	48.3	35.5	28.3	1.8	5.8	WSW	18.1	45	981	0.0
25/06/22 12:00	46.2	63.7	56.8	49.4	34.7	26.9	1.8	4.9	WSW	18.9	44	980	0.0
25/06/22 13:00	46.0	61.1	55.2	49.9	33.2	27.5	1.3	4.0	S	19.3	42	979	0.0
25/06/22 14:00	48.2	69.8	59.0	50.8	35.1	28.5	0.9	4.0	S	19.5	43	979	0.0
25/06/22 15:00	45.3	64.7	55.8	48.7	33.7	25.2	0.9	3.6	S	18.9	42	979	0.0
25/06/22 16:00	48.1	65.2	57.7	51.4	38.4	35.4	0.4	2.2	WSW	14.9	50	979	0.0
25/06/22 17:00	46.4	65.6	55.9	50.0	35.3	34.6	0.0	0.0	---	8.5	66	980	0.0
25/06/22 18:00	47.5	63.0	58.8	50.9	35.5	34.7	0.0	0.0	---	7.0	73	981	0.0
25/06/22 19:00	44.8	59.5	55.6	48.2	35.7	35.0	0.0	0.4	SW	5.9	77	981	0.0
25/06/22 20:00	42.0	56.6	52.1	45.3	35.4	35.0	0.0	0.4	SW	5.8	81	981	0.0
25/06/22 21:00	41.0	59.7	52.9	41.9	35.2	34.8	0.0	0.0	---	5.7	82	981	0.0
25/06/22 22:00	42.8	65.0	55.3	44.8	21.4	19.1	0.0	0.0	---	3.4	84	981	0.0
25/06/22 23:00	42.1	64.3	55.4	41.5	20.1	18.9	0.0	0.0	---	3.2	87	982	0.0
26/06/22 0:00	39.9	64.9	53.0	29.1	21.0	19.9	0.0	0.0	---	2.2	88	981	0.0
26/06/22 1:00	30.3	54.4	41.6	25.0	19.3	18.7	0.0	0.9	SW	2.6	88	981	0.0
26/06/22 2:00	36.1	59.6	49.3	35.7	19.6	18.8	0.0	0.0	---	1.9	87	981	0.0
26/06/22 3:00	44.7	62.5	54.8	49.6	24.4	20.8	0.0	0.0	---	1.7	89	981	0.0
26/06/22 4:00	50.7	67.0	59.3	54.3	39.5	26.7	0.0	0.0	---	1.9	89	981	0.0
26/06/22 5:00	51.2	67.8	62.6	54.6	31.4	26.0	0.0	0.0	---	1.6	89	982	0.0
26/06/22 6:00	52.8	69.3	62.0	56.1	39.1	30.2	0.0	0.0	---	1.7	89	982	0.0
26/06/22 7:00	52.6	68.5	62.4	56.3	41.7	37.5	0.0	0.0	---	4.8	91	983	0.0
26/06/22 8:00	51.3	66.5	61.3	54.7	40.9	36.8	0.4	1.8	E	11.2	72	983	0.0
26/06/22 9:00	47.4	64.8	57.0	51.2	35.8	30.5	0.4	2.7	E	14.6	61	983	0.0
26/06/22 10:00	47.7	66.0	59.2	50.1	36.3	30.6	0.4	2.7	E	17.6	48	983	0.0
26/06/22 11:00	71.5	95.1	62.8	47.5	33.1	27.7	0.4	2.7	ENE	19.3	45	982	0.0
26/06/22 12:00	56.8	79.2	59.2	45.8	28.7	24.9	0.4	2.7	NNW	20.5	41	981	0.0
26/06/22 13:00	42.0	63.2	55.5	44.0	24.2	22.0	1.3	3.6	NNE	20.4	40	981	0.0
26/06/22 14:00	46.0	66.5	59.3	46.6	23.6	21.5	0.4	2.7	ENE	20.8	38	980	0.0
26/06/22 15:00	46.3	66.6	58.2	49.3	26.1	21.6	0.4	1.8	E	20.2	39	980	0.0
26/06/22 16:00	50.5	69.2	62.9	52.6	28.6	23.3	0.4	1.3	ENE	16.2	51	980	0.0
26/06/22 17:00	54.5	76.6	66.2	56.9	30.8	23.7	0.0	0.4	ENE	9.8	66	981	0.0
26/06/22 18:00	54.0	72.7	67.2	55.7	23.9	21.8	0.0	1.3	S	8.9	73	981	0.0
26/06/22 19:00	51.8	70.3	66.2	51.6	25.6	23.0	0.0	0.0	---	8.2	78	982	0.0
26/06/22 20:00	49.4	71.7	63.5	46.1	24.1	22.5	0.0	1.3	E	7.8	77	982	0.0
26/06/22 21:00	49.5	71.4	63.9	43.0	24.1	21.9	0.0	0.0	---	7.3	76	982	0.0
26/06/22 22:00	46.1	69.1	59.5	38.6	22.4	21.0	0.0	0.0	---	5.6	82	982	0.0
26/06/22 23:00	50.9	76.7	62.3	45.5	22.8	21.7	0.0	0.0	---	4.5	84	982	0.0
27/06/22 0:00	40.8	66.9	51.6	30.7	21.9	21.1	0.0	0.0	---	3.9	86	982	0.0
27/06/22 1:00	29.0	42.5	35.6	31.6	21.8	20.8	0.0	0.9	E	3.4	86	982	0.0
27/06/22 2:00	28.4	38.3	33.1	30.0	26.4	23.8	0.0	0.0	---	2.2	87	981	0.0
27/06/22 3:00	45.7	69.6	59.6	42.7	24.5	23.1	0.0	0.9	E	2.3	88	981	0.0
27/06/22 4:00	48.4	66.4	62.6	46.4	23.7	22.8	0.0	0.0	---	2.1	89	981	0.0
27/06/22 5:00	52.9	68.4	64.7	57.0	25.8	23.2	0.0	0.4	E	3.4	90	981	0.0
27/06/22 6:00	55.8	71.4	65.4	59.9	38.0	28.6	0.0	0.0	---	3.7	89	981	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
27/06/22 7:00	55.9	77.8	67.0	58.3	42.1	37.0	0.0	0.0	---	6.1	90	982	0.0
27/06/22 8:00	50.8	66.4	62.6	53.8	39.6	34.0	0.0	0.0	---	8.6	88	982	0.0
27/06/22 9:00	48.1	69.3	60.1	49.6	36.4	33.4	0.9	4.5	WSW	14.9	60	982	0.0
27/06/22 10:00	48.9	66.3	59.2	52.0	39.0	34.7	1.8	5.4	WSW	17.1	53	982	0.0
27/06/22 11:00	50.6	65.8	60.8	53.0	43.5	38.4	2.2	8.5	SW	17.6	50	981	0.0
27/06/22 12:00	50.3	69.2	60.7	52.7	41.3	36.4	2.2	6.3	WSW	18.0	49	980	0.0
27/06/22 13:00	50.1	68.1	60.5	52.7	41.6	37.2	3.1	8.9	WSW	18.2	45	980	0.0
27/06/22 14:00	50.0	66.9	60.2	52.7	41.8	38.0	3.6	8.0	WSW	17.7	49	979	0.0
27/06/22 15:00	49.8	65.8	60.0	52.7	42.1	38.8	2.7	6.7	SW	16.8	46	979	0.0
27/06/22 16:00	49.4	67.5	61.6	51.9	37.0	32.9	1.8	5.8	WSW	14.3	50	980	0.0
27/06/22 17:00	50.5	68.1	62.6	53.8	33.4	30.6	0.9	3.6	WSW	12.5	52	980	0.0
27/06/22 18:00	48.2	69.3	61.1	50.1	33.7	31.5	1.3	4.9	WSW	12.2	53	981	0.0
27/06/22 19:00	50.7	74.6	62.4	50.2	36.6	34.0	1.8	5.4	WSW	11.8	55	981	0.0
27/06/22 20:00	48.6	67.4	58.7	50.5	41.0	37.1	2.2	7.2	WSW	10.4	59	981	0.0
27/06/22 21:00	48.7	66.8	59.6	50.1	41.4	37.9	2.2	5.8	SW	10.0	60	981	0.0
27/06/22 22:00	47.1	69.3	59.3	47.0	38.4	35.8	1.8	6.3	SW	9.1	63	982	0.0
27/06/22 23:00	47.9	68.0	58.1	49.3	41.4	36.6	1.3	4.5	SW	8.5	65	981	0.0
28/06/22 0:00	48.2	65.4	55.8	50.6	42.0	35.3	0.9	3.1	SW	8.9	65	981	0.0
28/06/22 1:00	47.0	68.7	54.1	47.9	39.6	32.0	0.0	1.8	SSE	6.4	72	981	0.0
28/06/22 2:00	40.0	58.7	49.4	43.3	28.5	24.4	0.0	0.4	SSE	4.3	79	981	0.0
28/06/22 3:00	44.0	67.6	58.0	33.1	24.5	23.2	0.0	0.0	---	3.9	81	981	0.0
28/06/22 4:00	47.7	66.5	62.5	44.6	25.4	23.5	0.0	0.0	---	3.4	82	981	0.0
28/06/22 5:00	52.7	68.6	64.7	57.1	34.2	30.0	0.0	0.0	---	3.0	85	982	0.0
28/06/22 6:00	55.9	71.7	66.7	59.8	40.3	34.0	0.0	0.0	---	2.7	86	982	0.0
28/06/22 7:00	55.0	72.1	66.5	58.4	45.4	41.7	0.0	0.0	---	7.1	84	982	0.0
28/06/22 8:00	52.2	67.3	62.6	55.2	44.8	41.0	1.3	6.3	SE	11.0	63	983	0.0
28/06/22 9:00	53.7	71.9	64.0	56.5	41.6	37.7	2.2	9.4	SE	14.1	55	983	0.0
28/06/22 10:00	54.2	72.5	65.3	56.7	42.5	38.9	3.1	7.2	ESE	16.2	52	983	0.0
28/06/22 11:00	54.7	73.0	66.6	56.8	43.4	40.1	2.7	7.2	SE	16.8	48	982	0.0
28/06/22 12:00	52.8	68.4	64.9	55.1	41.9	36.5	2.2	5.8	SE	18.2	45	982	0.0
28/06/22 13:00	53.2	73.6	65.9	54.5	39.6	34.7	2.2	6.7	E	17.8	46	981	0.0
28/06/22 14:00	51.5	68.6	63.7	54.4	39.7	36.4	1.8	4.9	SE	17.7	46	981	0.0
28/06/22 15:00	53.4	69.5	65.2	56.7	39.7	34.7	1.8	5.8	SE	16.7	49	981	0.0
28/06/22 16:00	52.4	68.6	63.5	56.0	40.5	36.7	1.8	4.5	SE	14.2	55	981	0.0
28/06/22 17:00	55.0	70.3	66.6	58.3	43.2	40.0	0.9	3.6	SE	12.2	62	982	0.0
28/06/22 18:00	52.3	69.6	64.0	55.0	42.0	38.0	0.9	3.1	ESE	10.8	66	982	0.0
28/06/22 19:00	53.2	72.0	65.2	55.6	41.4	36.3	0.0	2.2	ESE	10.1	70	982	0.0
28/06/22 20:00	50.9	69.6	63.6	53.2	36.1	31.2	0.4	2.2	ESE	9.7	72	983	0.0
28/06/22 21:00	50.0	71.1	64.2	48.0	27.2	24.6	0.0	1.8	SSE	8.9	75	983	0.0
28/06/22 22:00	48.5	69.1	62.1	47.4	32.0	26.1	0.0	1.3	SSE	7.4	79	983	0.0
28/06/22 23:00	50.2	70.5	64.7	47.0	39.1	36.2	0.0	0.0	---	4.6	86	983	0.0
29/06/22 0:00	46.6	69.0	56.8	46.5	37.9	33.6	0.0	0.0	---	4.2	87	982	0.0
29/06/22 1:00	45.4	59.6	53.6	48.0	39.7	34.2	0.0	0.0	---	4.6	88	982	0.0
29/06/22 2:00	41.5	62.4	51.9	44.9	29.5	27.3	0.0	0.0	---	4.6	89	982	0.0
29/06/22 3:00	39.4	63.5	47.2	31.5	26.4	25.0	0.0	0.0	---	4.1	89	981	0.0
29/06/22 4:00	47.4	69.8	62.2	40.6	26.5	24.5	0.0	2.2	S	6.8	90	981	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
29/06/22 5:00	52.4	68.2	63.2	57.2	31.2	27.3	0.0	2.7	S	5.4	90	982	0.0
29/06/22 6:00	55.7	70.2	65.3	59.7	40.1	32.2	0.0	0.0	---	5.1	90	982	0.0
29/06/22 7:00	52.6	72.9	64.4	55.4	39.8	35.1	0.4	3.1	S	9.4	90	982	0.0
29/06/22 8:00	52.0	69.1	63.6	54.8	38.5	35.0	1.3	4.0	SE	12.7	79	983	0.0
29/06/22 9:00	50.7	67.5	62.6	53.9	36.0	30.6	1.8	4.0	E	13.9	72	983	0.0
29/06/22 10:00	52.2	68.3	64.4	55.4	35.1	29.7	1.8	4.5	E	15.6	66	983	0.0
29/06/22 11:00	52.5	72.4	64.8	54.6	35.8	30.6	2.2	5.4	E	16.1	63	982	0.0
29/06/22 12:00	53.6	74.3	64.8	55.9	36.1	32.2	2.2	5.4	E	17.7	57	981	0.0
29/06/22 13:00	51.3	69.7	63.3	54.1	37.3	33.8	2.2	4.9	E	15.9	62	981	0.0
29/06/22 14:00	52.3	70.3	64.7	55.2	36.9	32.4	2.2	4.9	E	15.9	62	981	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP10

Address	71 Kaboon Street	**Monitoring Start**	22/06/2022	**Dominant Road**	Cunningham Highway
Suburb	Yelarbon	**Monitoring Finish**	30/06/2022	**Dist. to Road (m)**	95
District	Goondiwindi	**Mic. Height (m)**	1.9	**Start Cal. (dB(A))**	94.0
Latitude	-28.574394°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	94.3
Longitude	150.758113°	**Monitor Serial**	11096	**Operator**	LAN
Lot No.	12Y5699	**Measurement**	Facade	**Sample Interval**	1 hour

Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
58.4	**57.9**	**61.5**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Wednesday, 22 June 2022	-^	-^	-^
Thursday, 23 June 2022	58.4	57.7	62.0
Friday, 24 June 2022	56.2	55.5	59.4
Saturday, 25 June 2022	54.1	54.2	57.1
Sunday, 26 June 2022	55.1	54.4	60.0
Monday, 27 June 2022	-*	-*	-*
Tuesday, 28 June 2022	59.4	58.9	62.0

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos

71 Kaboon Street

Site 10

Future Freight

Site Photos

Attended Measurement Summary

Attended Measurement #1: Wednesday, 22 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
9:30 AM	9:46 AM	Attended	56.3	33.3	70.5	67.0	60.9	40.9
9:00 AM	10:00 AM	Logger	61.4	30.3	70.3	67.1	60.5	40.5

Comments

Traffic noise from Cunningham Highway is the dominant noise. Other noises include bird noise and a minute of electric saw from the neighbour.

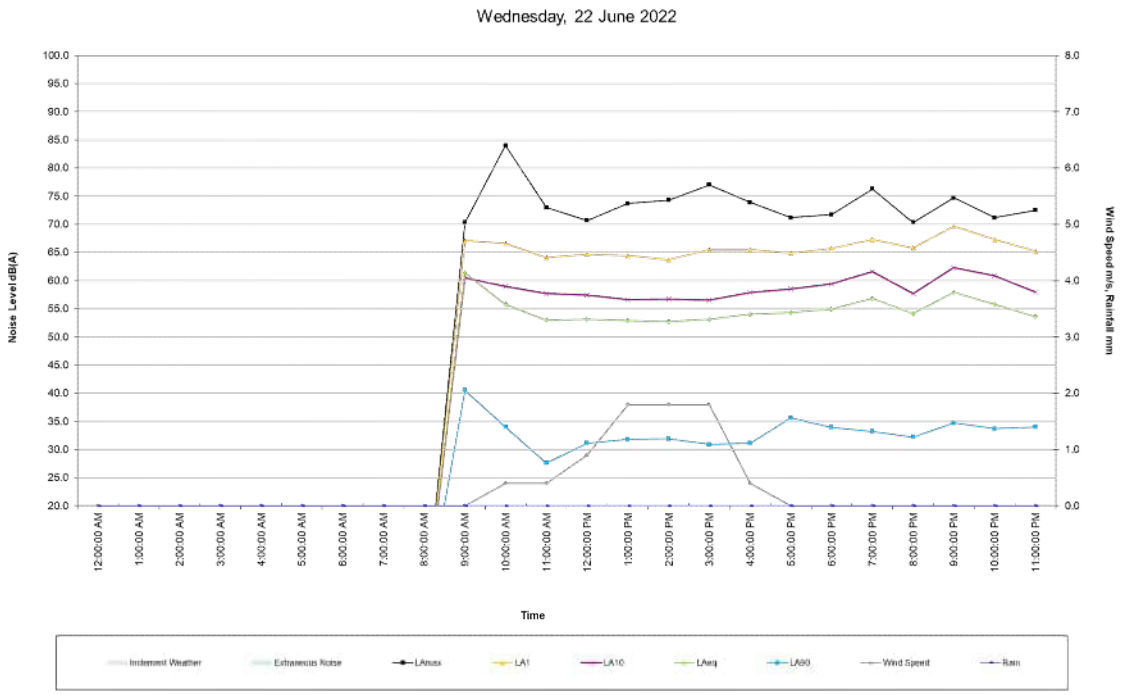
Attended Measurement #2: Thursday, 30 June 2022

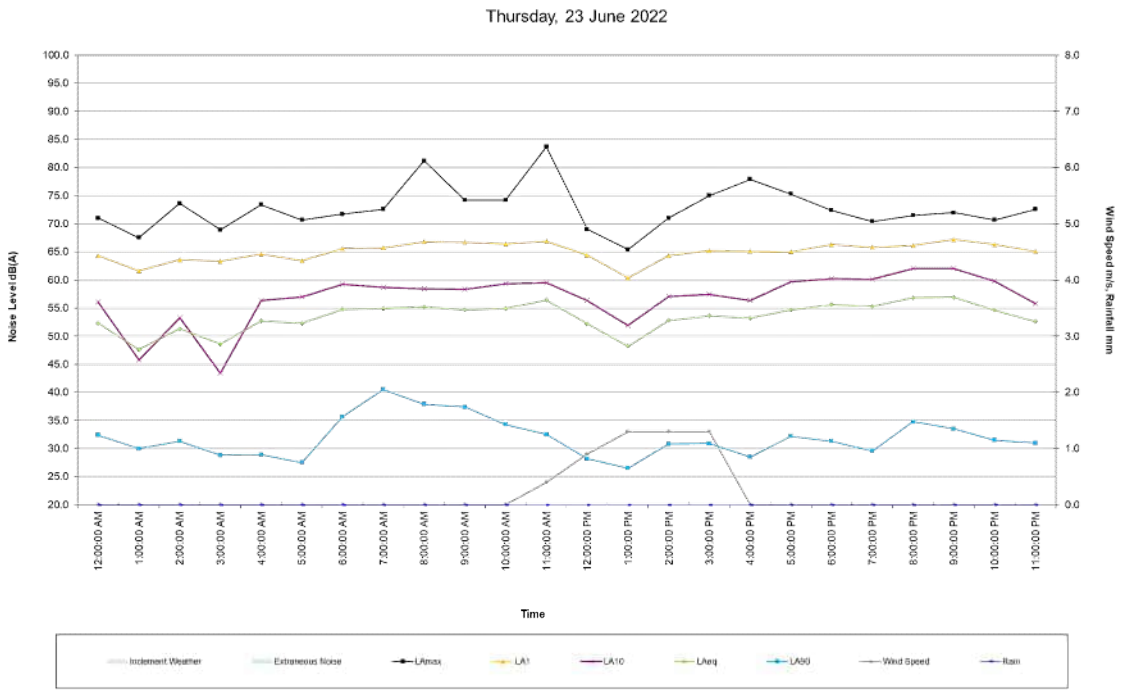
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
10:47 AM	11:02 AM	Attended	56.1	26.1	73.0	66.9	61.0	38.7
10:00 AM	11:00 AM	Logger	65.3	27.8	80.1	77.4	64.4	40.0

Comments

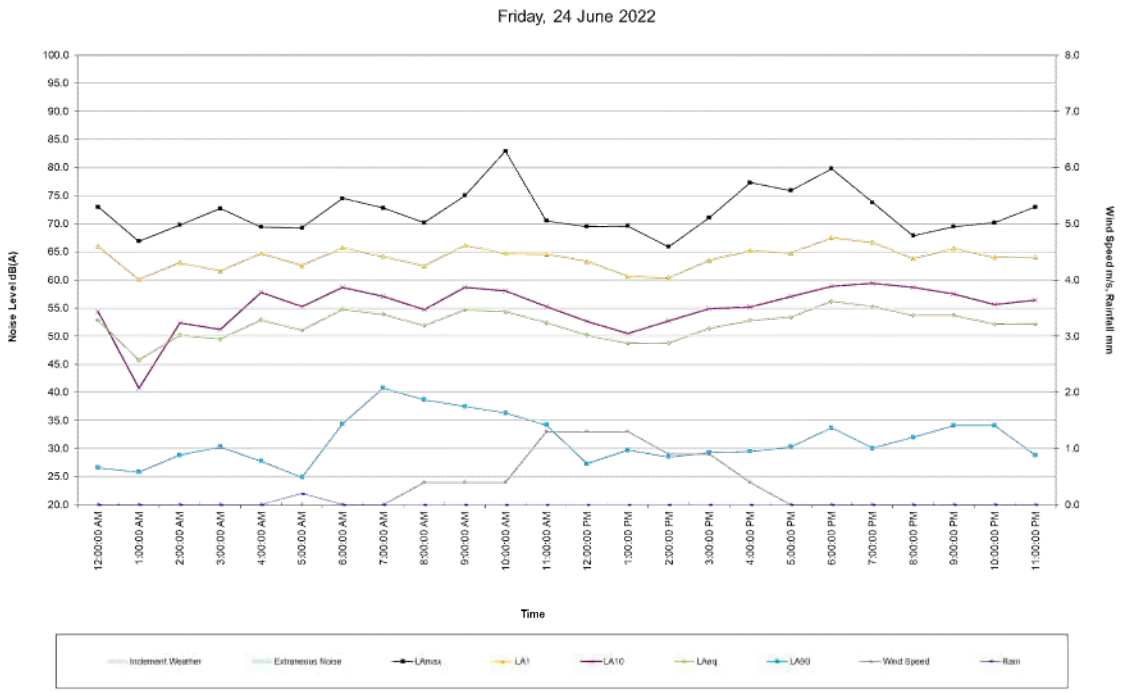
Most of the noise is traffic hum coming from Cunningham Highway from the South-East. There is a lot less from the Cunningham Highway from North and the North-West as the noise is shielded by the buildings. Most of this traffic hum is distant Heavy Vehicle noise. Most of the traffic here is HVs and cars with camper vans. 2:22 min of Cunningham Highway car noise at 39-54 dBA. 1:45 min of Cunningham Highway H.V. noise at 51-70 dBA. 3:32 min of Distant Truck noise at 41-60 dBA. 5:48 min of Distant traffic noise at 27-50 dBA. 0:26 min of Kaboon St car noise at 49-56 dBA. 0:34 min of bird noise at 48-60 dBA. 0:33 min of neighbour talking noise at 41-45 dBA.

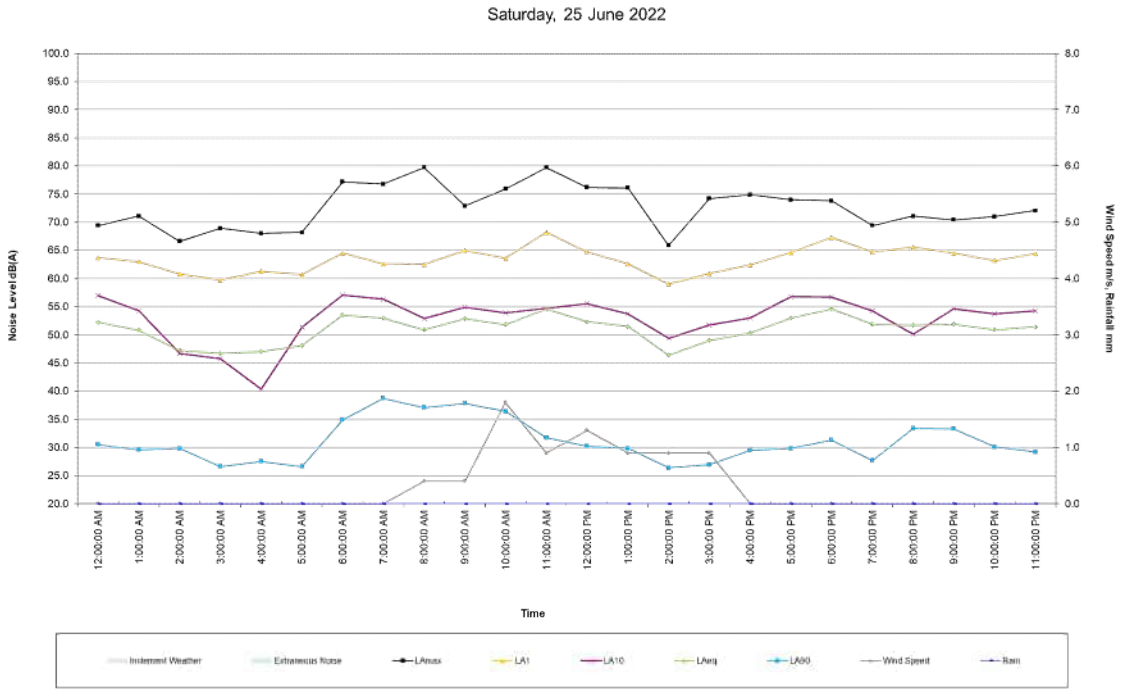
Site Noise and Weather Conditions



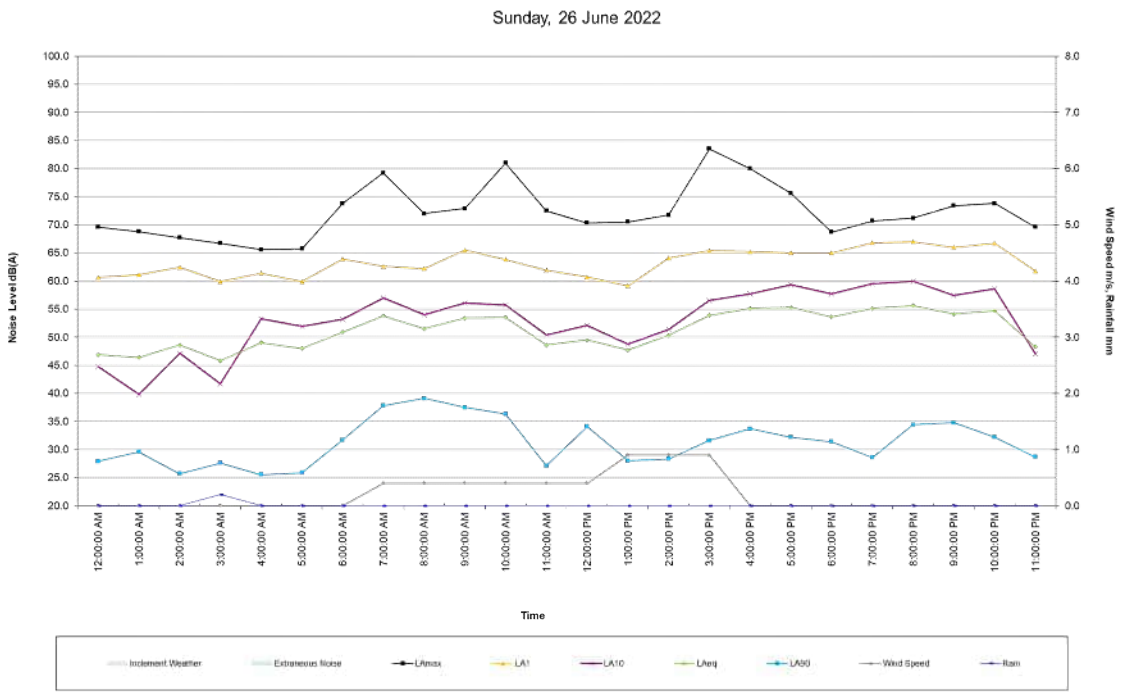


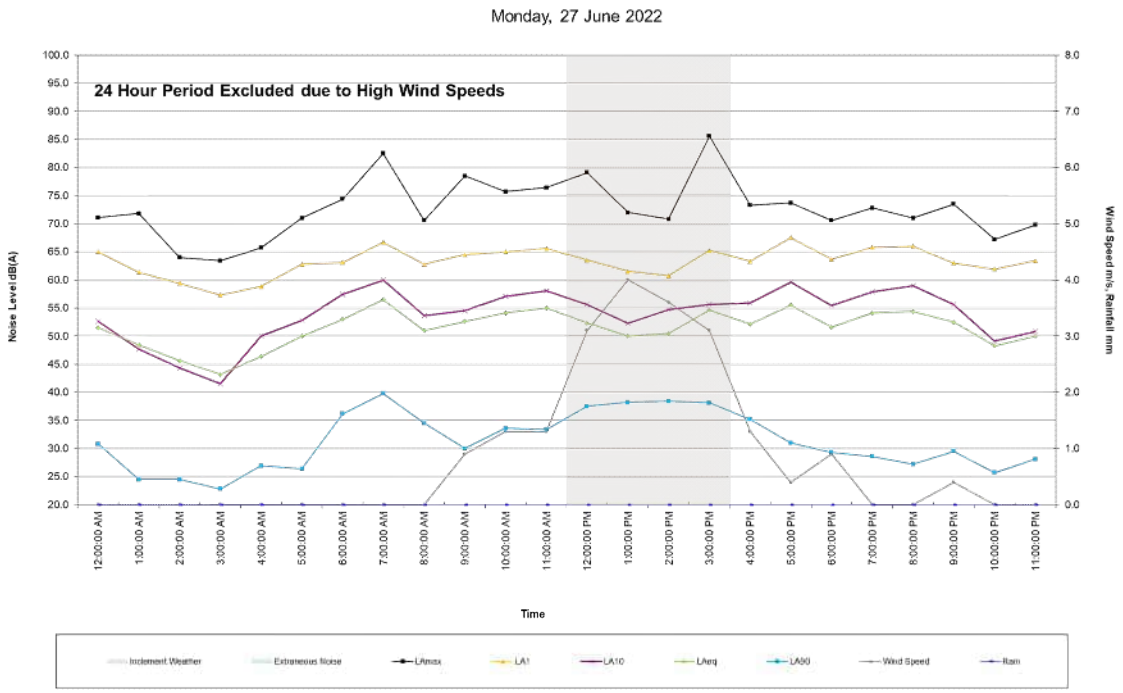
Site Noise and Weather Conditions



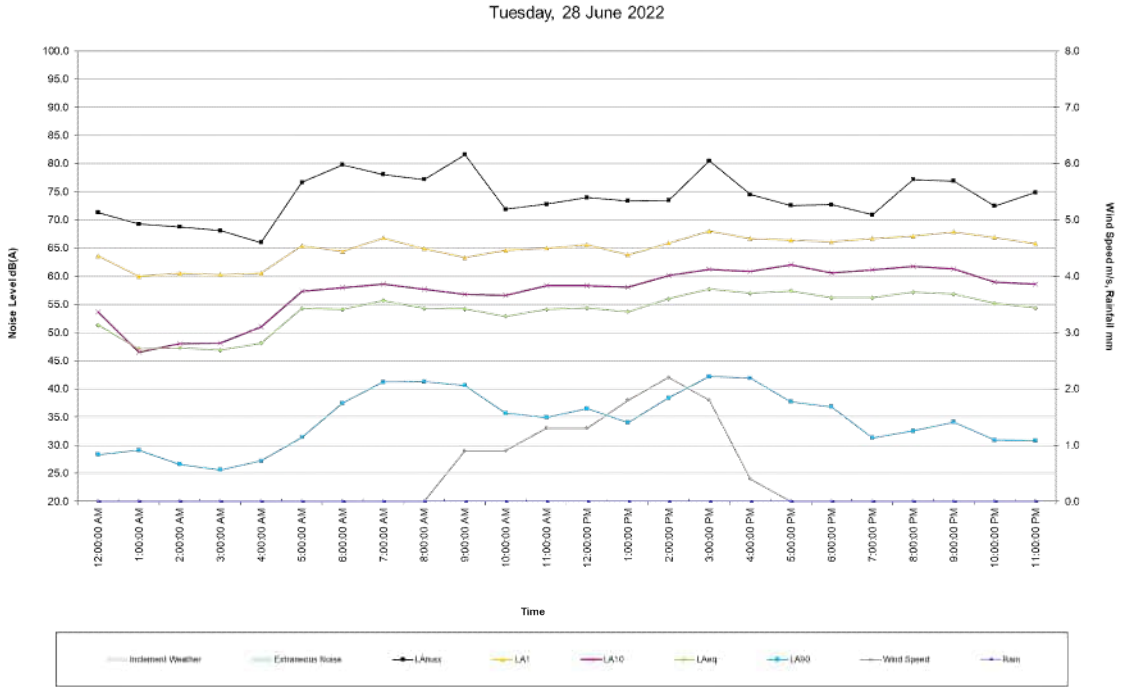


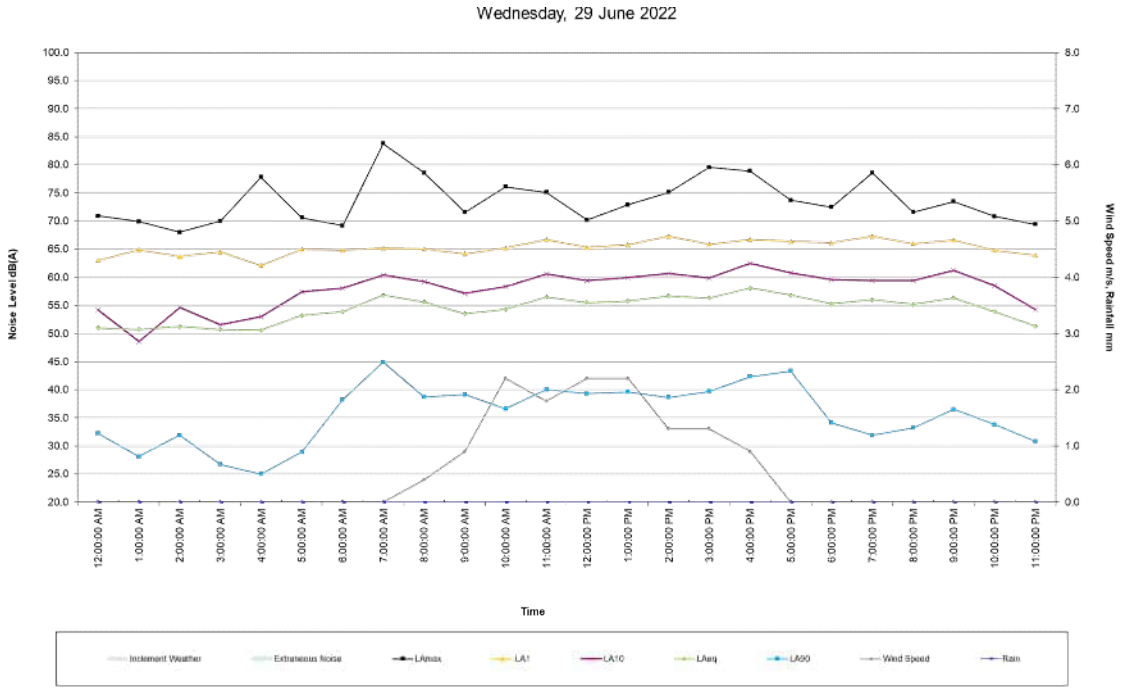
Site Noise and Weather Conditions



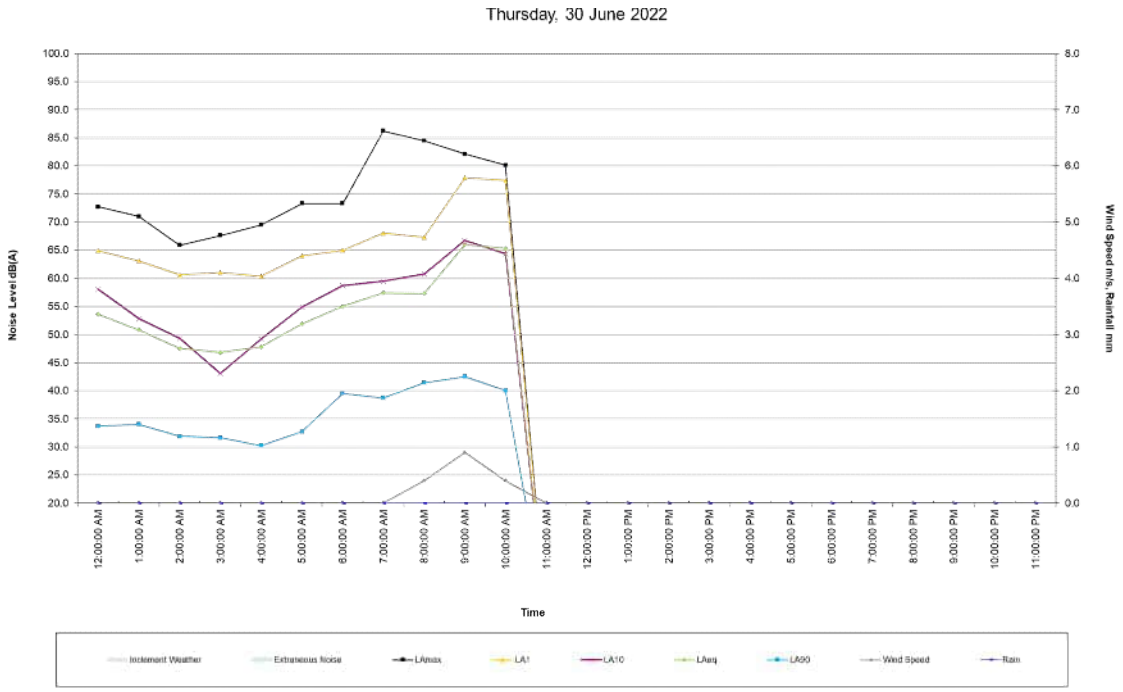


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
22/06/22 09:00	61.4	70.3	67.1	60.5	40.5	30.3	0.0	4.9	ESE	16.1	68	1002	0.0
22/06/22 10:00	55.8	84.0	66.6	59.0	34.0	25.6	0.4	1.8	NW	18.3	56	1001	0.0
22/06/22 11:00	53.0	73.0	64.1	57.7	27.6	20.8	0.4	2.7	NW	19.8	52	1000	0.0
22/06/22 12:00	53.1	70.7	64.7	57.4	31.1	22.5	0.9	3.6	WNW	20.8	49	999	0.0
22/06/22 13:00	52.9	73.7	64.4	56.6	31.8	25.2	1.8	4.5	NW	20.8	46	999	0.0
22/06/22 14:00	52.7	74.3	63.7	56.7	31.9	27.5	1.8	4.0	NW	20.8	45	999	0.0
22/06/22 15:00	53.1	77.0	65.5	56.5	30.9	25.4	1.8	4.0	WNW	19.9	48	986	0.0
22/06/22 16:00	54.0	73.9	65.5	57.9	31.1	25.4	0.4	2.2	WNW	17.6	56	982	0.0
22/06/22 17:00	54.3	71.2	64.9	58.5	35.6	31.3	0.0	0.0	---	14.2	68	979	0.0
22/06/22 18:00	54.9	71.7	65.7	59.4	33.9	28.5	0.0	0.0	---	10.7	76	978	0.0
22/06/22 19:00	56.8	76.3	67.3	61.6	33.2	26.2	0.0	0.0	---	11.8	73	979	0.0
22/06/22 20:00	54.1	70.3	65.8	57.7	32.2	24.8	0.0	0.0	---	9.4	80	980	0.0
22/06/22 21:00	57.9	74.7	69.7	62.3	34.7	29.2	0.0	0.0	---	7.4	85	981	0.0
22/06/22 22:00	55.8	71.2	67.3	60.9	33.7	29.0	0.0	0.0	---	6.1	89	982	0.0
22/06/22 23:00	53.6	72.5	65.2	58.0	34.0	29.3	0.0	0.0	---	4.9	91	983	0.0
23/06/22 0:00	52.3	71.0	64.3	56.1	32.4	28.2	0.0	0.0	---	4.2	93	985	0.0
23/06/22 1:00	47.6	67.5	61.6	45.8	30.0	25.5	0.0	0.0	---	3.9	93	987	0.0
23/06/22 2:00	51.3	73.6	63.6	53.3	31.3	24.1	0.0	0.0	---	3.1	94	988	0.0
23/06/22 3:00	48.6	68.9	63.3	43.4	28.8	24.2	0.0	0.0	---	2.5	94	989	0.0
23/06/22 4:00	52.7	73.4	64.6	56.3	28.9	22.1	0.0	0.0	---	2.4	95	991	0.0
23/06/22 5:00	52.3	70.7	63.4	57.0	27.5	21.3	0.0	0.0	---	1.6	94	993	0.0
23/06/22 6:00	54.8	71.7	65.6	59.2	35.7	25.9	0.0	0.0	---	2.2	95	996	0.0
23/06/22 7:00	54.9	72.6	65.7	58.7	40.5	32.6	0.0	0.9	ESE	6.2	93	1008	0.0
23/06/22 8:00	55.2	81.2	66.8	58.4	37.9	32.0	0.0	0.9	ESE	10.8	83	1004	0.0
23/06/22 9:00	54.7	74.2	66.7	58.3	37.4	31.1	0.0	1.3	SE	14.1	72	1003	0.0
23/06/22 10:00	54.9	74.2	66.4	59.3	34.3	28.7	0.0	1.8	NW	16.0	61	1003	0.0
23/06/22 11:00	56.4	83.7	66.9	59.5	32.5	24.5	0.4	2.2	NW	18.6	48	1001	0.0
23/06/22 12:00	52.2	69.0	64.4	56.3	28.2	23.5	0.9	3.1	NW	19.3	35	1000	0.0
23/06/22 13:00	48.2	65.4	60.4	51.9	26.5	21.4	1.3	3.6	W	19.7	40	999	0.0
23/06/22 14:00	52.8	71.0	64.3	57.1	30.8	22.8	1.3	3.6	NW	19.8	39	999	0.0
23/06/22 15:00	53.6	75.0	65.2	57.4	30.9	23.5	1.3	3.1	NW	18.7	40	984	0.0
23/06/22 16:00	53.2	77.9	65.1	56.3	28.5	22.2	0.0	2.2	NW	15.2	50	978	0.0
23/06/22 17:00	54.7	75.3	65.0	59.7	32.2	24.8	0.0	0.0	---	10.3	69	974	0.0
23/06/22 18:00	55.6	72.4	66.3	60.2	31.3	24.2	0.0	0.0	---	8.3	77	974	0.0
23/06/22 19:00	55.3	70.4	65.8	60.1	29.6	23.9	0.0	0.4	NNE	6.7	85	975	0.0
23/06/22 20:00	56.8	71.5	66.1	62.0	34.8	25.5	0.0	0.0	---	5.3	88	975	0.0
23/06/22 21:00	56.9	72.0	67.2	62.0	33.5	25.6	0.0	0.0	---	4.4	90	977	0.0
23/06/22 22:00	54.6	70.7	66.3	59.8	31.5	22.7	0.0	0.0	---	3.6	91	979	0.0
23/06/22 23:00	52.6	72.6	65.1	55.8	31.0	25.1	0.0	0.4	NNE	3.3	92	981	0.0
24/06/22 0:00	52.8	73.0	66.0	54.4	26.6	20.1	0.0	0.4	NNE	2.9	92	983	0.0
24/06/22 1:00	45.7	66.9	60.1	40.7	25.8	20.5	0.0	0.4	NNE	2.2	93	984	0.0
24/06/22 2:00	50.2	69.8	63.1	52.4	28.8	21.6	0.0	0.4	NNE	2.0	93	986	0.0
24/06/22 3:00	49.5	72.7	61.6	51.2	30.3	23.8	0.0	0.4	NNE	1.8	94	988	0.0
24/06/22 4:00	52.9	69.4	64.7	57.8	27.8	22.0	0.0	0.4	NNE	1.3	94	989	0.0
24/06/22 5:00	51.1	69.3	62.6	55.3	24.9	19.8	0.0	0.4	NNW	1.1	94	991	0.2
24/06/22 6:00	54.8	74.5	65.7	58.7	34.4	23.1	0.0	0.4	NNE	0.9	94	994	0.0
24/06/22 7:00	53.9	72.8	64.2	57.1	40.8	27.2	0.0	0.9	ESE	4.9	92	1007	0.0
24/06/22 8:00	51.9	70.2	62.5	54.7	38.7	29.2	0.4	1.3	SE	8.8	80	1002	0.0
24/06/22 9:00	54.7	75.0	66.1	58.7	37.5	31.6	0.4	1.3	SE	13.1	64	1001	0.0
24/06/22 10:00	54.4	82.9	64.7	58.1	36.3	29.1	0.4	2.2	SE	16.4	56	1000	0.0
24/06/22 11:00	52.4	70.5	64.6	55.3	34.2	25.1	1.3	4.0	NW	16.8	51	999	0.0
24/06/22 12:00	50.2	69.5	63.3	52.6	27.3	21.1	1.3	3.6	NW	18.5	43	998	0.0
24/06/22 13:00	48.7	69.6	60.6	50.5	29.7	23.0	1.3	4.0	NW	18.6	41	998	0.0
24/06/22 14:00	48.8	65.9	60.4	52.7	28.5	23.8	0.9	4.0	NW	19.1	43	997	0.0
24/06/22 15:00	51.4	71.1	63.5	54.9	29.3	23.9	0.9	2.7	NW	17.9	45	984	0.0
24/06/22 16:00	52.8	77.3	65.2	55.2	29.5	21.0	0.4	1.8	NW	14.4	56	978	0.0
24/06/22 17:00	53.4	75.9	64.8	57.1	30.3	24.0	0.0	1.8	WSW	11.0	72	975	0.0
24/06/22 18:00	56.2	79.8	67.5	58.9	33.7	27.9	0.0	0.4	NNE	8.8	77	975	0.0
24/06/22 19:00	55.3	73.8	66.7	59.4	30.1	23.0	0.0	0.0	---	6.8	86	976	0.0
24/06/22 20:00	53.7	67.9	63.8	58.7	32.0	23.4	0.0	0.0	---	5.3	89	977	0.0
24/06/22 21:00	53.7	69.5	65.6	57.5	34.1	25.9	0.0	0.0	---	4.7	91	978	0.0
24/06/22 22:00	52.1	70.2	64.0	55.6	34.1	26.1	0.0	0.4	NNE	3.6	91	980	0.0
24/06/22 23:00	52.2	73.0	64.1	56.4	28.8	20.7	0.0	0.4	N	3.1	92	983	0.0
25/06/22 0:00	52.2	69.4	63.7	57.0	30.5	24.7	0.0	0.4	ESE	2.9	93	984	0.0
25/06/22 1:00	50.8	71.1	63.0	54.3	29.6	23.2	0.0	0.4	ESE	2.4	93	985	0.0
25/06/22 2:00	47.2	66.6	60.8	46.7	29.8	24.9	0.0	0.4	ESE	2.6	94	988	0.0
25/06/22 3:00	46.7	68.9	59.7	45.8	26.6	20.5	0.0	0.4	ENE	2.1	94	989	0.0
25/06/22 4:00	47.0	68.0	61.3	40.4	27.5	22.1	0.0	0.9	ESE	1.8	94	991	0.0
25/06/22 5:00	48.1	68.2	60.7	51.4	26.6	20.5	0.0	0.4	ESE	1.6	94	993	0.0
25/06/22 6:00	53.5	77.2	64.5	57.1	34.9	22.6	0.0	0.4	ESE	1.4	95	995	0.0
25/06/22 7:00	53.0	76.8	62.6	56.3	38.7	28.1	0.0	1.3	ESE	5.3	92	1006	0.0
25/06/22 8:00	50.9	79.7	62.5	52.9	37.1	28.7	0.4	1.3	ESE	9.5	79	1002	0.0
25/06/22 9:00	52.9	72.9	65.0	54.9	37.8	31.6	0.4	2.2	ESE	13.7	67	1001	0.0
25/06/22 10:00	51.8	75.9	63.6	53.9	36.4	25.5	1.8	4.5	WSW	16.4	54	1001	0.0
25/06/22 11:00	54.6	79.7	68.2	54.7	31.7	21.7	0.9	4.0	WSW	18.1	52	1000	0.0
25/06/22 12:00	52.3	76.2	64.7	55.5	30.2	24.6	1.3	4.0	NW	19.0	44	999	0.0
25/06/22 13:00	51.5	76.1	62.6	53.7	29.8	21.9	0.9	4.0	W	19.7	42	998	0.0
25/06/22 14:00	46.4	65.9	59.0	49.4	26.4	19.4	0.9	3.1	NW	19.7	40	998	0.0
25/06/22 15:00	49.0	74.2	60.9	51.7	26.9	22.3	0.9	2.2	NW	18.7	42	984	0.0
25/06/22 16:00	50.3	74.9	62.4	53.0	29.5	22.1	0.0	1.3	NNW	14.6	57	977	0.0
25/06/22 17:00	53.0	74.0	64.6	56.8	29.8	20.2	0.0	0.0	---	10.1	71	972	0.0
25/06/22 18:00	54.6	73.8	67.3	56.7	31.3	22.9	0.0	0.4	N	8.2	81	972	0.0
25/06/22 19:00	51.9	69.4	64.7	54.3	27.7	21.8	0.0	0.4	NNW	6.7	86	973	0.0
25/06/22 20:00	51.7	71.1	65.6	50.1	33.4	26.4	0.0	0.4	NNE	5.6	89	974	0.0
25/06/22 21:00	51.9	70.4	64.5	54.6	33.3	25.2	0.0	0.4	NNE	5.1	90	976	0.0
25/06/22 22:00	50.9	71.0	63.2	53.7	30.1	23.2	0.0	0.4	E	4.6	90	978	0.0
25/06/22 23:00	51.4	72.1	64.4	54.3	29.2	22.7	0.0	0.4	E	3.9	91	979	0.0
26/06/22 0:00	46.9	69.6	60.6	44.8	27.9	20.4	0.0	0.4	E	3.8	92	982	0.0
26/06/22 1:00	46.4	68.8	61.1	39.8	29.6	23.6	0.0	0.9	SSE	3.9	93	984	0.0
26/06/22 2:00	48.6	67.7	62.4	47.1	25.7	19.4	0.0	0.4	SSE	3.0	93	985	0.0
26/06/22 3:00	45.8	66.7	59.9	41.7	27.6	19.4	0.0	0.4	SSE	2.3	94	986	0.2
26/06/22 4:00	49.0	65.6	61.4	53.3	25.5	20.6	0.0	0.4	SE	1.6	94	987	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
26/06/22 5:00	48.0	65.7	59.9	51.9	25.9	19.5	0.0	0.9	SE	1.6	95	990	0.0
26/06/22 6:00	50.9	73.8	63.9	53.2	31.7	22.3	0.0	0.9	SE	1.6	94	993	0.0
26/06/22 7:00	53.8	79.2	62.6	57.0	37.8	28.0	0.4	1.3	WSW	5.9	92	1009	0.0
26/06/22 8:00	51.5	72.0	62.2	54.0	39.1	29.5	0.4	1.3	ESE	9.9	77	1004	0.0
26/06/22 9:00	53.4	72.9	65.5	56.1	37.5	30.8	0.4	2.2	ESE	13.8	65	1003	0.0
26/06/22 10:00	53.5	81.0	63.8	55.7	36.3	22.7	0.4	1.8	ESE	17.7	51	1002	0.0
26/06/22 11:00	48.6	72.5	61.9	50.4	27.1	20.0	0.4	2.2	NW	19.2	42	1001	0.0
26/06/22 12:00	49.5	70.3	60.7	52.1	34.1	27.1	0.4	2.7	WNW	20.2	41	1000	0.0
26/06/22 13:00	47.7	70.5	59.1	48.8	28.0	22.1	0.9	4.0	NW	19.8	38	1000	0.0
26/06/22 14:00	50.3	71.7	64.1	51.4	28.3	22.7	0.9	3.6	NW	19.7	39	1000	0.0
26/06/22 15:00	53.9	83.5	65.4	56.5	31.6	20.8	0.9	2.2	WNW	18.1	43	986	0.0
26/06/22 16:00	55.1	80.0	65.2	57.7	33.7	23.9	0.0	2.2	W	14.9	56	979	0.0
26/06/22 17:00	55.3	75.6	65.0	59.3	32.2	23.4	0.0	0.4	NNW	12.7	58	976	0.0
26/06/22 18:00	53.6	68.7	65.0	57.7	31.4	23.2	0.0	0.0	---	8.3	73	975	0.0
26/06/22 19:00	55.1	70.7	66.8	59.5	28.6	21.1	0.0	0.0	---	7.2	83	975	0.0
26/06/22 20:00	55.6	71.2	67.0	60.0	34.4	28.9	0.0	0.4	NNW	6.9	85	978	0.0
26/06/22 21:00	54.1	73.4	66.0	57.4	34.8	29.2	0.0	0.4	NNE	6.2	86	980	0.0
26/06/22 22:00	54.7	73.8	66.7	58.6	32.2	26.1	0.0	0.4	NE	5.4	88	981	0.0
26/06/22 23:00	48.3	69.6	61.8	47.0	28.7	22.6	0.0	0.0	---	4.3	90	982	0.0
27/06/22 0:00	51.5	71.1	65.0	52.6	30.8	25.0	0.0	0.4	ESE	4.2	91	984	0.0
27/06/22 1:00	48.4	71.8	61.4	47.7	24.5	19.8	0.0	0.4	ESE	4.9	91	988	0.0
27/06/22 2:00	45.6	64.0	59.4	44.3	24.5	18.7	0.0	0.4	ESE	4.9	90	990	0.0
27/06/22 3:00	43.2	63.4	57.3	41.5	22.8	18.3	0.0	0.4	N	4.8	91	992	0.0
27/06/22 4:00	46.4	65.7	58.8	50.0	26.9	22.6	0.0	0.4	NNE	3.8	91	991	0.0
27/06/22 5:00	50.0	71.0	62.8	52.8	26.4	20.1	0.0	0.0	---	3.1	93	991	0.0
27/06/22 6:00	53.0	74.4	63.1	57.4	36.2	27.6	0.0	0.4	NNE	2.3	93	992	0.0
27/06/22 7:00	56.5	82.5	66.7	60.0	39.8	29.9	0.0	0.4	ENE	7.3	90	1008	0.0
27/06/22 8:00	51.0	70.6	62.8	53.6	34.5	27.3	0.0	0.9	WSW	11.0	74	1004	0.0
27/06/22 9:00	52.6	78.5	64.5	54.5	30.0	25.2	0.9	3.1	NW	12.7	68	1003	0.0
27/06/22 10:00	54.1	75.7	65.0	57.1	33.6	25.7	1.3	5.4	W	16.1	57	1002	0.0
27/06/22 11:00	55.0	76.4	65.6	58.1	33.4	27.0	1.3	4.0	W	17.6	52	1000	0.0
27/06/22 12:00	52.3	79.1	63.5	55.6	37.5	28.3	3.1	7.6	WNW	19.0	45	1000	0.0
27/06/22 13:00	50.0	72.0	61.5	52.3	38.2	33.2	4.0	7.6	NW	18.2	44	1000	0.0
27/06/22 14:00	50.4	70.8	60.7	54.7	38.4	34.0	3.6	8.9	NW	17.7	40	999	0.0
27/06/22 15:00	54.6	85.6	65.2	55.6	38.1	32.8	3.1	7.6	NW	16.5	42	988	0.0
27/06/22 16:00	52.1	73.3	63.3	55.9	35.2	28.8	1.3	4.0	NW	14.4	50	984	0.0
27/06/22 17:00	55.5	73.7	67.5	59.6	31.0	24.4	0.4	2.2	NNW	12.2	57	982	0.0
27/06/22 18:00	51.6	70.6	63.7	55.4	29.3	25.4	0.9	2.2	NW	11.4	58	983	0.0
27/06/22 19:00	54.1	72.8	65.8	57.9	28.6	21.9	0.0	2.2	WNW	9.2	65	982	0.0
27/06/22 20:00	54.4	71.0	66.0	59.0	27.2	22.3	0.0	0.9	NNW	8.4	68	984	0.0
27/06/22 21:00	52.5	73.5	63.0	55.6	29.5	24.4	0.4	1.3	NNW	7.7	71	986	0.0
27/06/22 22:00	48.3	67.2	61.9	49.1	25.7	21.5	0.0	0.9	NNW	5.6	76	986	0.0
27/06/22 23:00	50.0	69.8	63.4	50.8	28.1	22.8	0.0	0.9	NNW	4.4	82	987	0.0
28/06/22 0:00	51.3	71.3	63.6	53.6	28.3	22.5	0.0	0.4	ENE	2.6	87	987	0.0
28/06/22 1:00	47.1	69.3	60.0	46.5	29.1	22.9	0.0	0.9	ENE	1.6	90	989	0.0
28/06/22 2:00	47.3	68.8	60.5	48.0	26.6	21.0	0.0	0.0	---	0.7	91	990	0.0
28/06/22 3:00	46.9	68.1	60.3	48.1	25.6	21.7	0.0	0.4	N	0.2	92	991	0.0
28/06/22 4:00	48.1	66.0	60.5	51.0	27.2	21.4	0.0	0.9	E	-0.4	93	993	0.0
28/06/22 5:00	54.3	76.7	65.4	57.3	31.4	22.1	0.0	0.4	NNE	-1.1	93	995	0.0
28/06/22 6:00	54.1	79.8	64.4	58.0	37.5	23.8	0.0	0.0	---	-0.5	94	998	0.0
28/06/22 7:00	55.7	78.1	66.8	58.6	41.2	30.3	0.0	0.9	E	4.3	90	1009	0.0
28/06/22 8:00	54.3	77.2	64.9	57.7	41.3	30.9	0.0	0.9	E	8.9	76	1005	0.0
28/06/22 9:00	54.2	81.6	63.3	56.8	40.6	32.7	0.9	2.7	W	12.4	58	1004	0.0
28/06/22 10:00	52.9	71.9	64.6	56.6	35.7	27.7	0.9	3.1	WSW	15.9	49	1003	0.0
28/06/22 11:00	54.1	72.8	65.0	58.3	34.9	23.8	1.3	3.6	WSW	17.4	47	1002	0.0
28/06/22 12:00	54.4	74.0	65.6	58.3	36.5	24.0	1.3	4.9	WSW	18.9	41	1002	0.0
28/06/22 13:00	53.7	73.4	63.8	58.1	34.0	22.3	1.8	5.8	WSW	19.1	38	1001	0.0
28/06/22 14:00	56.0	73.5	65.9	60.1	38.4	28.4	2.2	4.9	WSW	19.2	37	1000	0.0
28/06/22 15:00	57.7	80.5	68.0	61.2	42.2	30.5	1.8	4.5	WSW	18.1	39	997	0.0
28/06/22 16:00	57.0	74.5	66.7	60.9	41.9	29.4	0.4	2.7	WSW	14.8	49	993	0.0
28/06/22 17:00	57.4	72.6	66.4	62.0	37.7	23.9	0.0	0.4	NNE	10.4	65	991	0.0
28/06/22 18:00	56.2	72.7	66.1	60.6	36.8	26.4	0.0	2.2	ESE	10.8	67	993	0.0
28/06/22 19:00	56.2	70.9	66.7	61.1	31.3	22.8	0.0	0.9	ENE	9.1	73	994	0.0
28/06/22 20:00	57.2	77.2	67.1	61.8	32.5	25.0	0.0	0.4	E	7.1	78	996	0.0
28/06/22 21:00	56.8	76.9	67.9	61.3	34.1	27.0	0.0	0.4	ENE	6.6	85	998	0.0
28/06/22 22:00	55.2	72.5	66.9	59.0	30.9	22.0	0.0	0.4	WSW	6.8	83	1003	0.0
28/06/22 23:00	54.4	74.9	65.8	58.6	30.8	23.9	0.0	0.9	ESE	6.2	85	1004	0.0
29/06/22 0:00	51.0	70.9	63.0	54.2	32.2	27.2	0.0	0.4	E	4.7	88	1004	0.0
29/06/22 1:00	50.7	69.9	64.9	48.6	28.1	20.6	0.0	0.4	ENE	4.4	91	1004	0.0
29/06/22 2:00	51.2	68.0	63.7	54.6	31.9	20.0	0.0	0.4	NNE	3.7	92	1003	0.0
29/06/22 3:00	50.7	70.0	64.5	51.6	26.7	20.1	0.0	0.4	NNE	2.4	93	1003	0.0
29/06/22 4:00	50.6	77.8	62.1	53.0	25.0	18.4	0.0	0.4	NNE	2.3	93	1004	0.0
29/06/22 5:00	53.2	70.6	65.0	57.4	28.9	20.9	0.0	1.3	WSW	2.2	93	1004	0.0
29/06/22 6:00	53.9	69.2	64.8	58.1	38.2	27.9	0.0	1.3	NE	2.7	94	1005	0.0
29/06/22 7:00	56.8	83.8	65.2	60.4	44.9	31.2	0.0	1.3	ESE	7.6	91	1006	0.0
29/06/22 8:00	55.6	78.6	65.1	59.2	38.7	30.3	0.4	2.2	W	11.7	73	1004	0.0
29/06/22 9:00	53.5	71.6	64.2	57.2	39.1	32.9	0.9	2.7	WSW	16.1	62	1004	0.0
29/06/22 10:00	54.3	76.1	65.2	58.3	36.6	26.3	2.2	5.8	ESE	16.7	61	1003	0.0
29/06/22 11:00	56.5	75.1	66.7	60.6	40.0	30.4	1.8	5.4	ESE	17.4	59	1002	0.0
29/06/22 12:00	55.5	70.2	65.3	59.4	39.3	31.1	2.2	5.4	ESE	17.2	59	1001	0.0
29/06/22 13:00	55.8	72.9	65.8	60.0	39.6	28.2	2.2	4.9	ESE	17.8	58	1000	0.0
29/06/22 14:00	56.7	75.1	67.3	60.7	38.6	28.3	1.3	3.6	ESE	17.0	62	996	0.0
29/06/22 15:00	56.3	79.6	65.9	59.9	39.7	28.2	1.3	3.6	ESE	16.0	68	996	0.0
29/06/22 16:00	58.1	78.9	66.7	62.5	42.3	32.3	0.9	3.1	ESE	14.9	73	997	0.0
29/06/22 17:00	56.8	73.7	66.4	60.8	43.3	32.4	0.0	0.9	ESE	13.7	76	998	0.0
29/06/22 18:00	55.3	72.5	66.1	59.6	34.1	28.7	0.0	0.4	E	12.3	80	999	0.0
29/06/22 19:00	56.0	78.6	67.3	59.4	31.9	25.4	0.0	0.4	NE	11.3	85	1001	0.0
29/06/22 20:00	55.2	71.6	66.0	59.4	33.2	25.4	0.0	0.0	---	10.6	86	1001	0.0
29/06/22 21:00	56.3	73.5	66.6	61.2	36.5	30.6	0.0	0.0	---	10.7	88	1001	0.0
29/06/22 22:00	53.9	70.8	64.8	58.5	33.8	27.2	0.0	1.8	ESE	10.9	87	1001	0.0
29/06/22 23:00	51.3	69.4	63.9	54.3	30.8	23.8	0.0	0.9	S	10.6	87	1001	0.0
30/06/22 0:00	53.6	72.7	64.9	58.1	33.7	29.0	0.0	0.4	ESE	10.4	86	1000	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
30/06/22 1:00	50.8	71.0	63.1	52.8	34.0	29.1	0.0	0.9	ESE	9.7	88	1000	0.0
30/06/22 2:00	47.5	65.9	60.6	49.3	31.9	25.0	0.0	0.0	---	9.1	90	1000	0.0
30/06/22 3:00	46.8	67.6	61.0	43.1	31.6	25.0	0.0	0.9	E	9.2	91	1000	0.0
30/06/22 4:00	47.8	69.5	60.4	49.2	30.2	23.9	0.0	0.9	ENE	8.2	90	1000	0.0
30/06/22 5:00	51.9	73.3	64.0	54.9	32.7	26.0	0.0	0.9	NW	8.2	92	1001	0.0
30/06/22 6:00	55.0	73.3	65.0	58.7	39.5	25.2	0.0	0.0	---	8.5	93	1002	0.0
30/06/22 7:00	57.4	86.2	68.0	59.5	38.7	29.1	0.0	0.9	S	10.7	89	1002	0.0
30/06/22 8:00	57.3	84.5	67.3	60.8	41.4	31.5	0.4	1.8	ESE	12.7	81	1002	0.0
30/06/22 9:00	66.0	82.1	77.9	66.7	42.5	32.4	0.9	2.2	ESE	14.6	76	1001	0.0
30/06/22 10:00	65.3	80.1	77.4	64.4	40.0	27.8	0.4	1.3	E	16.7	69	1001	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP11

Address	6 Taloom Street	**Monitoring Start**	22/06/2022	**Dominant Road**	Cunningham Highway
Suburb	Yelarbon	**Monitoring Finish**	30/06/2022	**Dist. to Road (m)**	18.6
District	Goondiwindi	**Mic. Height (m)**	1.9	**Start Cal. (dB(A))**	94.0
Latitude	-28.572980°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	93.8
Longitude	150.751249°	**Monitor Serial**	11098	**Operator**	LAN
Lot No.	103Y5691	**Measurement**	Free Field	**Sample Interval**	1 hour

Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
63.0	**64.3**	**67.2**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Wednesday, 22 June 2022	-^	-^	-^
Thursday, 23 June 2022	63.4	64.5	67.8
Friday, 24 June 2022	61.8	63.1	65.5
Saturday, 25 June 2022	59.4	61.4	64.2
Sunday, 26 June 2022	60.3	61.4	64.1
Monday, 27 June 2022	-*	-*	-*
Tuesday, 28 June 2022	63.6	64.9	68.1

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos

Attended Measurement Summary

Attended Measurement #1: Wednesday, 22 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
10:42 AM	10:57 AM	Attended	63.8	35.3	85.7	76.0	66.0	41.5
10:00 AM	11:00 AM	Logger	64.1	37.4	88.0	76.5	66.9	43.5

Comments

Traffic on Taloom Street/Cunningham Highway is the dominant noise source. There is a bump in the road at around 25m that causes the trucks traillers to emit loud noises. Other noises are birds and background traffic hum.

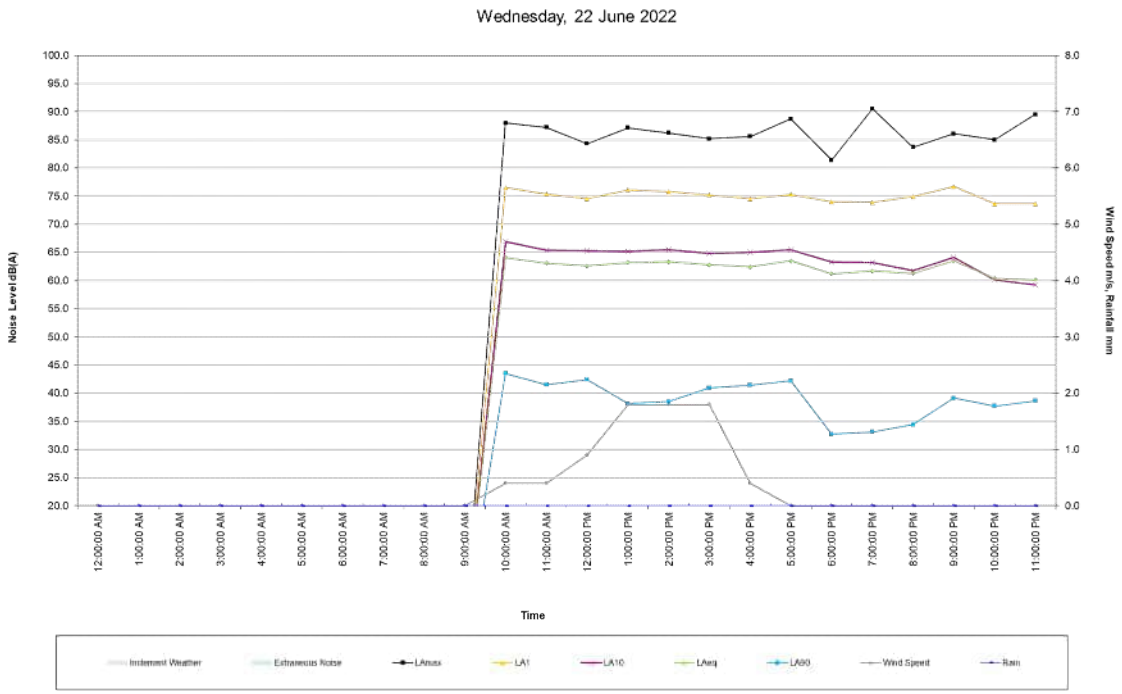
Attended Measurement #2: Wednesday, 29 June 2022

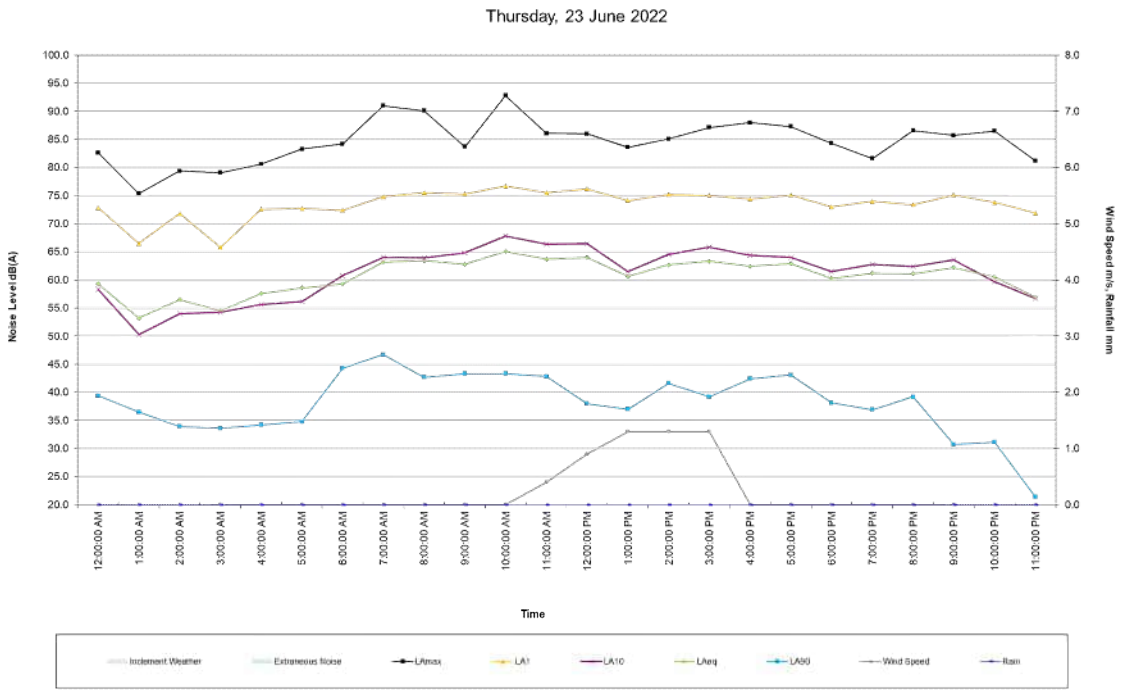
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
5:14 PM	5:29 PM	Attended	74.4	30.4	87.3	62.4	62.8	39.0
5:00 PM	6:00 PM	Logger	63.2	30.3	87.7	75.9	64.7	40.6

Comments

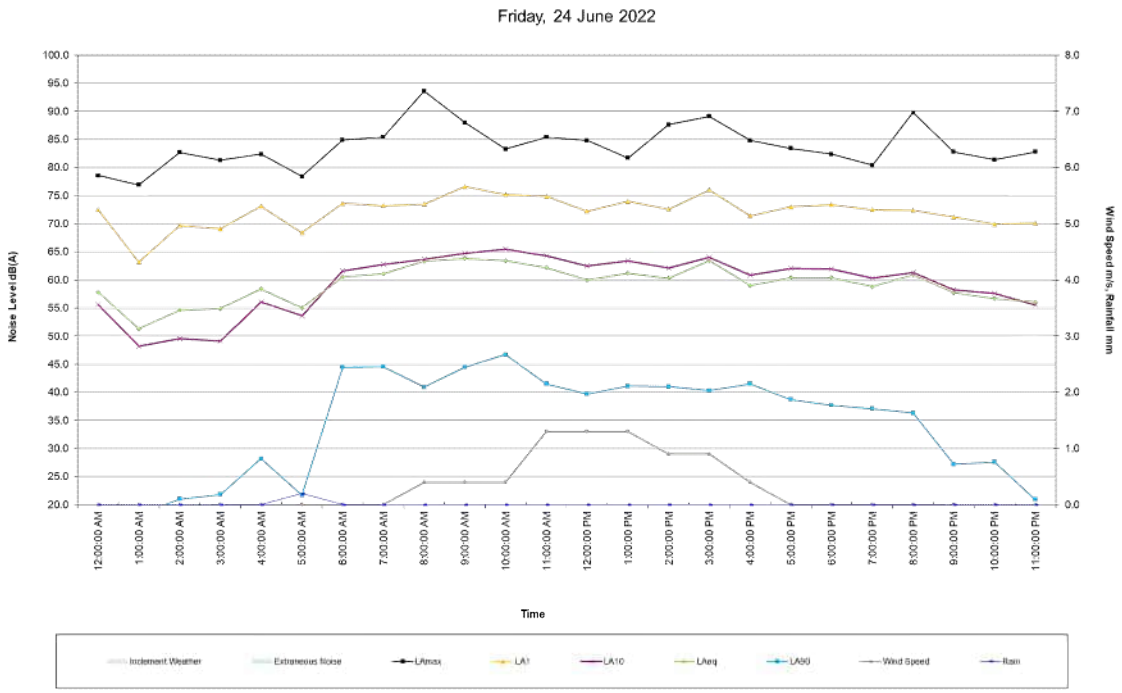
Traffic from Cunningham Highway is the dominant noise source. Most of the noise is heavy vehicle nois. Heavy truck noise has been caused by bump on the road on Cunningham Highway, which makes all the carriages jump and make a loud noise on impact. 1:12 min of Cunningham Highway car noise at 52-65 dBA. 1:00 min of Cunningham Highway H.V. noise at 62-83 dBA. 6:16 min of Distant traffic noise at 33-58 dBA. 1:49 min of distant H.V. noise at 38-63 dBA. 4:33 min of bird noise at 36-67 dBA. 0:10 min of industrial noise at 51 dBA.

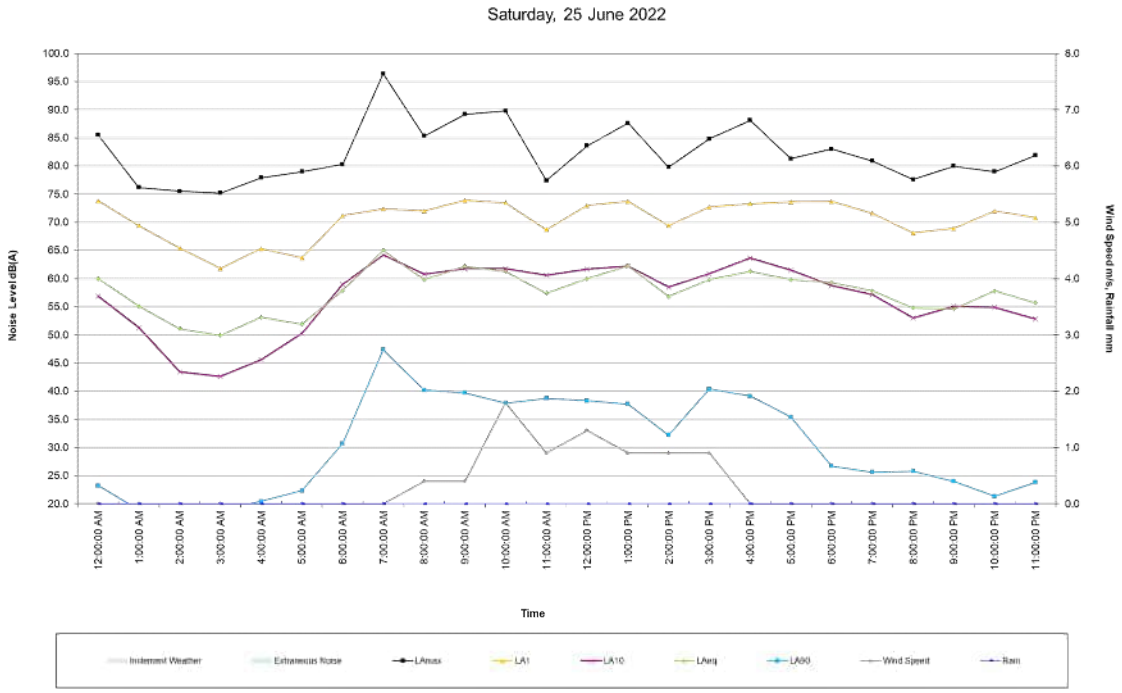
Site Noise and Weather Conditions



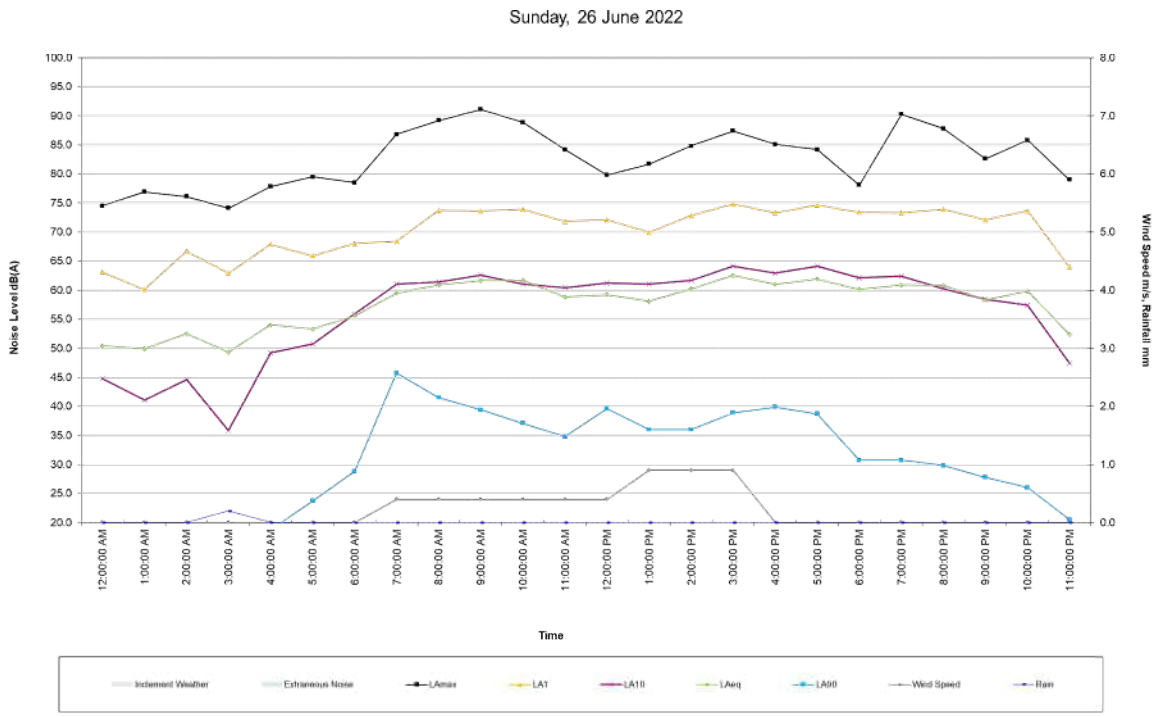


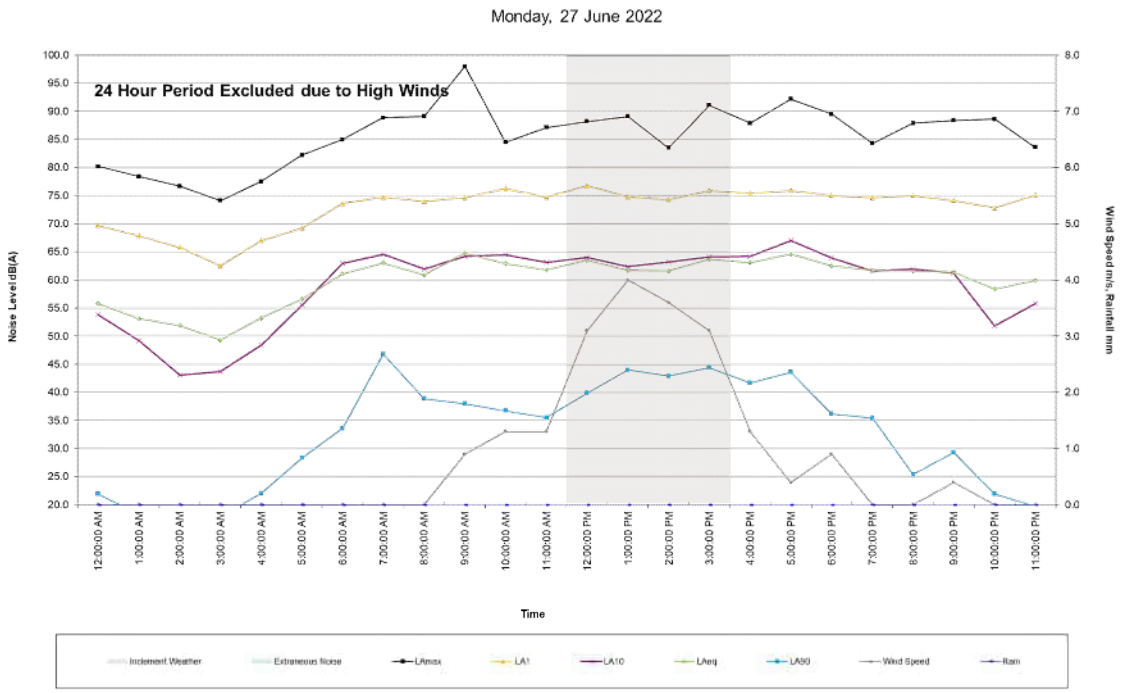
Site Noise and Weather Conditions



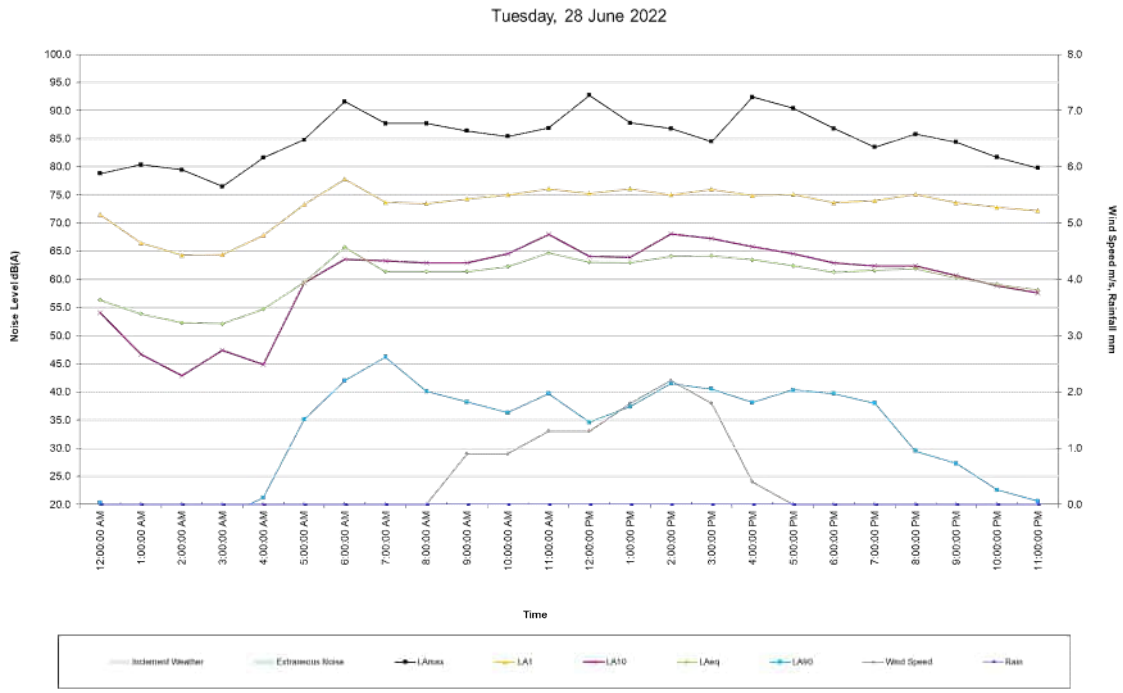


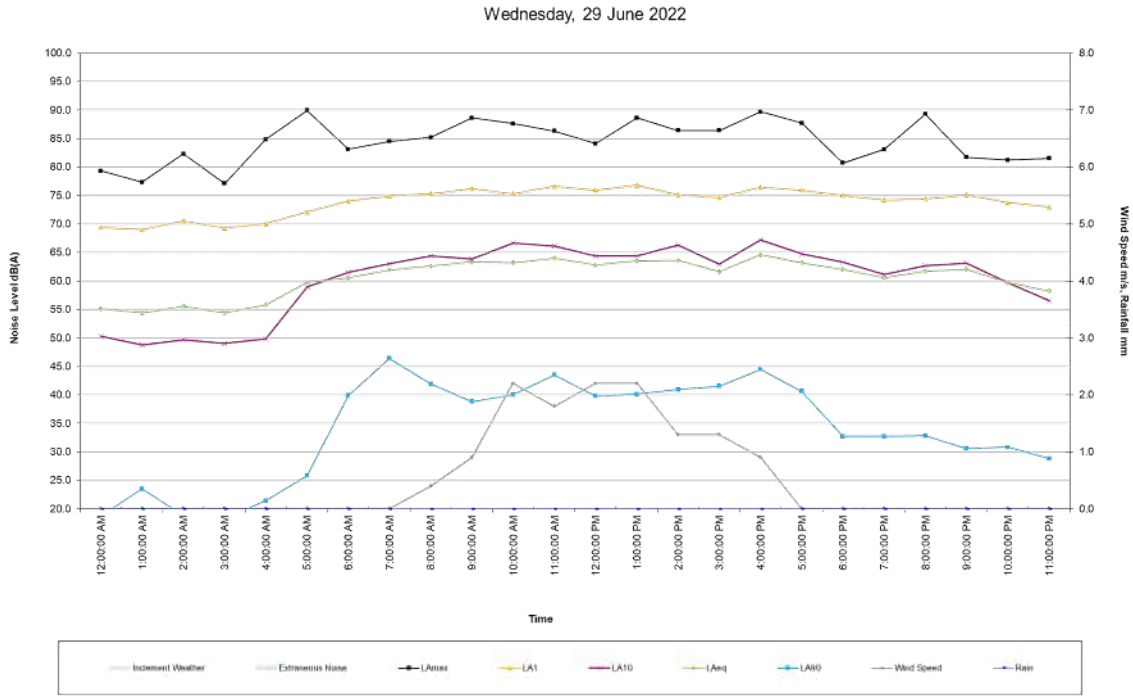
Site Noise and Weather Conditions



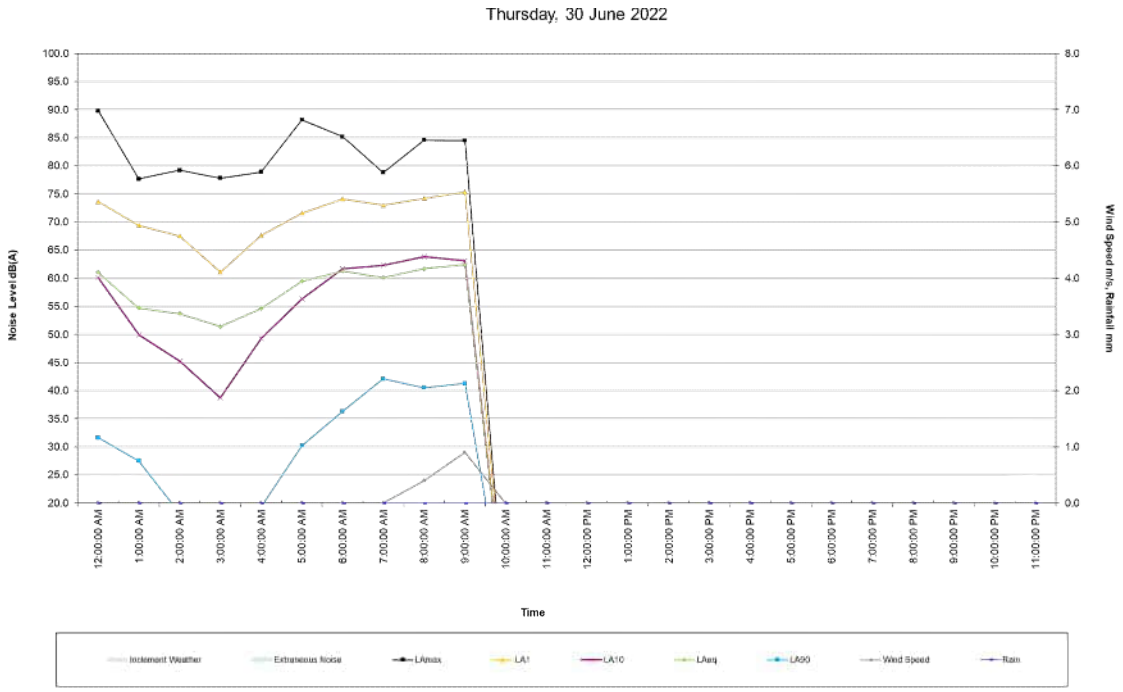


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
22/06/22 10:00	64.1	88.0	76.5	66.9	43.5	37.4	0.4	1.8	NW	18.3	56	1001	0.0
22/06/22 11:00	63.1	87.2	75.4	65.4	41.5	36.4	0.4	2.7	NW	19.8	52	1000	0.0
22/06/22 12:00	62.6	84.3	74.5	65.3	42.4	37.0	0.9	3.6	WNW	20.8	49	999	0.0
22/06/22 13:00	63.2	87.1	76.1	65.2	38.1	30.8	1.8	4.5	NW	20.8	46	999	0.0
22/06/22 14:00	63.3	86.2	75.8	65.5	38.5	29.6	1.8	4.0	NW	20.8	45	999	0.0
22/06/22 15:00	62.8	85.2	75.2	64.8	40.9	29.4	1.8	4.0	WNW	19.9	48	986	0.0
22/06/22 16:00	62.4	85.6	74.5	65.0	41.4	27.2	0.4	2.2	WNW	17.6	56	982	0.0
22/06/22 17:00	63.5	88.7	75.3	65.5	42.2	30.7	0.0	0.0	---	14.2	68	979	0.0
22/06/22 18:00	61.2	81.4	74.0	63.3	32.7	27.5	0.0	0.0	---	10.7	76	978	0.0
22/06/22 19:00	61.7	90.5	73.9	63.2	33.1	28.1	0.0	0.0	---	11.8	73	979	0.0
22/06/22 20:00	61.3	83.7	74.9	61.8	34.4	31.1	0.0	0.0	---	9.4	80	980	0.0
22/06/22 21:00	63.5	86.1	76.7	64.1	39.1	36.7	0.0	0.0	---	7.4	85	981	0.0
22/06/22 22:00	60.4	85.0	73.6	60.1	37.7	36.0	0.0	0.0	---	6.1	89	982	0.0
22/06/22 23:00	60.1	89.5	73.6	59.2	38.6	36.8	0.0	0.0	---	4.9	91	983	0.0
23/06/22 0:00	59.3	82.6	72.8	58.3	39.4	38.3	0.0	0.0	---	4.2	93	985	0.0
23/06/22 1:00	53.2	75.4	66.5	50.3	36.5	35.3	0.0	0.0	---	3.9	93	987	0.0
23/06/22 2:00	56.5	79.4	71.8	54.0	33.9	33.2	0.0	0.0	---	3.1	94	988	0.0
23/06/22 3:00	54.5	79.1	65.8	54.3	33.6	33.0	0.0	0.0	---	2.5	94	989	0.0
23/06/22 4:00	57.6	80.6	72.6	55.6	34.2	33.4	0.0	0.0	---	2.4	95	991	0.0
23/06/22 5:00	58.6	83.3	72.7	56.2	34.8	33.7	0.0	0.0	---	1.6	94	993	0.0
23/06/22 6:00	59.3	84.2	72.4	60.8	44.3	37.2	0.0	0.0	---	2.2	95	996	0.0
23/06/22 7:00	63.2	91.0	74.8	64.0	46.7	38.1	0.0	0.9	ESE	6.2	93	1008	0.0
23/06/22 8:00	63.4	90.1	75.5	63.9	42.7	36.1	0.0	0.9	ESE	10.8	83	1004	0.0
23/06/22 9:00	62.8	83.7	75.3	64.8	43.3	35.0	0.0	1.3	SE	14.1	72	1003	0.0
23/06/22 10:00	65.1	92.8	76.7	67.8	43.3	35.4	0.0	1.8	NW	16.0	61	1003	0.0
23/06/22 11:00	63.7	86.1	75.5	66.4	42.8	30.9	0.4	2.2	NW	18.6	48	1001	0.0
23/06/22 12:00	64.0	86.0	76.2	66.5	38.0	35.3	0.9	3.1	NW	19.3	35	1000	0.0
23/06/22 13:00	60.6	83.6	74.1	61.5	37.0	34.8	1.3	3.6	W	19.7	40	999	0.0
23/06/22 14:00	62.7	85.1	75.2	64.6	41.6	30.8	1.3	3.6	NW	19.8	39	999	0.0
23/06/22 15:00	63.3	87.1	75.0	65.8	39.2	31.2	1.3	3.1	NW	18.7	40	984	0.0
23/06/22 16:00	62.4	88.0	74.4	64.4	42.4	31.8	0.0	2.2	NW	15.2	50	978	0.0
23/06/22 17:00	62.9	87.3	75.1	64.0	43.1	35.9	0.0	0.0	---	10.3	69	974	0.0
23/06/22 18:00	60.3	84.3	73.0	61.5	38.1	35.7	0.0	0.0	---	8.3	77	974	0.0
23/06/22 19:00	61.2	81.6	74.0	62.8	36.9	35.7	0.0	0.4	NNE	6.7	85	975	0.0
23/06/22 20:00	61.1	86.6	73.4	62.4	39.2	28.2	0.0	0.0	---	5.3	88	975	0.0
23/06/22 21:00	62.2	85.7	75.1	63.6	30.7	26.6	0.0	0.0	---	4.4	90	977	0.0
23/06/22 22:00	60.5	86.5	73.8	59.7	31.1	27.2	0.0	0.0	---	3.6	91	979	0.0
23/06/22 23:00	56.9	81.2	71.9	56.7	21.4	18.6	0.0	0.4	NNE	3.3	92	981	0.0
24/06/22 0:00	57.8	78.6	72.5	55.6	19.8	17.8	0.0	0.4	NNE	2.9	92	983	0.0
24/06/22 1:00	51.3	76.9	63.2	48.2	18.2	17.4	0.0	0.4	NNE	2.2	93	984	0.0
24/06/22 2:00	54.6	82.7	69.7	49.6	21.0	19.8	0.0	0.4	NNE	2.0	93	986	0.0
24/06/22 3:00	54.9	81.3	69.1	49.1	21.8	20.6	0.0	0.4	NNE	1.8	94	988	0.0
24/06/22 4:00	58.4	82.4	73.1	56.1	28.2	22.3	0.0	0.4	NNE	1.3	94	989	0.0
24/06/22 5:00	55.0	78.4	68.4	53.6	21.7	18.2	0.0	0.4	NNW	1.1	94	991	0.2
24/06/22 6:00	60.5	84.9	73.6	61.6	44.5	33.1	0.0	0.4	NNE	0.9	94	994	0.0
24/06/22 7:00	61.1	85.4	73.2	62.8	44.6	36.9	0.0	0.9	ESE	4.9	92	1007	0.0
24/06/22 8:00	63.3	93.6	73.5	63.7	40.9	33.5	0.4	1.3	SE	8.8	80	1002	0.0
24/06/22 9:00	63.8	88.0	76.6	64.7	44.5	40.3	0.4	1.3	SE	13.1	64	1001	0.0
24/06/22 10:00	63.4	83.3	75.2	65.5	46.7	38.5	0.4	2.2	SE	16.4	56	1000	0.0
24/06/22 11:00	62.2	85.4	74.9	64.3	41.5	35.9	1.3	4.0	NW	16.8	51	999	0.0
24/06/22 12:00	60.0	84.8	72.2	62.5	39.7	35.6	1.3	3.6	NW	18.5	43	998	0.0
24/06/22 13:00	61.2	81.7	74.0	63.4	41.1	36.0	1.3	4.0	NW	18.6	41	998	0.0
24/06/22 14:00	60.3	87.6	72.6	62.1	41.0	32.4	0.9	4.0	NW	19.1	43	997	0.0
24/06/22 15:00	63.4	89.1	76.0	64.0	40.3	28.3	0.9	2.7	NW	17.9	45	984	0.0
24/06/22 16:00	59.0	84.8	71.4	60.9	41.5	28.4	0.4	1.8	NW	14.4	56	978	0.0
24/06/22 17:00	60.4	83.4	73.0	62.0	38.7	35.7	0.0	1.8	WSW	11.0	72	975	0.0
24/06/22 18:00	60.4	82.4	73.4	61.9	37.7	35.7	0.0	0.4	NNE	8.8	77	975	0.0
24/06/22 19:00	58.8	80.4	72.5	60.3	37.1	35.5	0.0	0.0	---	6.8	86	976	0.0
24/06/22 20:00	60.9	89.8	72.4	61.3	36.3	27.9	0.0	0.0	---	5.3	89	977	0.0
24/06/22 21:00	57.7	82.8	71.2	58.2	27.2	22.5	0.0	0.0	---	4.7	91	978	0.0
24/06/22 22:00	56.7	81.4	69.9	57.6	27.6	21.5	0.0	0.4	NNE	3.6	91	980	0.0
24/06/22 23:00	56.1	82.8	70.1	55.5	20.9	17.9	0.0	0.4	N	3.1	92	983	0.0
25/06/22 0:00	60.0	85.5	73.8	56.9	23.2	19.4	0.0	0.4	ESE	2.9	93	984	0.0
25/06/22 1:00	55.1	76.2	69.4	51.3	18.9	17.5	0.0	0.4	ESE	2.4	93	985	0.0
25/06/22 2:00	51.1	75.5	65.4	43.4	18.8	17.3	0.0	0.4	ESE	2.6	94	988	0.0
25/06/22 3:00	49.9	75.2	61.8	42.6	18.8	17.7	0.0	0.4	ENE	2.1	94	989	0.0
25/06/22 4:00	53.1	77.9	65.3	45.6	20.4	18.4	0.0	0.9	ESE	1.8	94	991	0.0
25/06/22 5:00	51.9	79.0	63.7	50.3	22.3	18.1	0.0	0.4	ESE	1.6	94	993	0.0
25/06/22 6:00	57.9	80.3	71.2	59.0	30.7	24.3	0.0	0.4	ESE	1.4	95	995	0.0
25/06/22 7:00	65.0	96.4	72.4	64.2	47.4	35.6	0.0	1.3	ESE	5.3	92	1006	0.0
25/06/22 8:00	59.8	85.3	72.0	60.8	40.2	31.4	0.4	1.3	ESE	9.5	79	1002	0.0
25/06/22 9:00	62.2	89.2	73.9	61.8	39.7	30.9	0.4	2.2	ESE	13.7	67	1001	0.0
25/06/22 10:00	61.3	89.8	73.5	61.8	37.9	30.5	1.8	4.5	WSW	16.4	54	1001	0.0
25/06/22 11:00	57.4	77.4	68.7	60.6	38.7	30.1	0.9	4.0	WSW	18.1	52	1000	0.0
25/06/22 12:00	60.0	83.6	73.0	61.7	38.3	29.8	1.3	4.0	NW	19.0	44	999	0.0
25/06/22 13:00	62.3	87.6	73.7	62.2	37.7	26.9	0.9	4.0	W	19.7	42	998	0.0
25/06/22 14:00	56.8	79.8	69.4	58.5	32.2	24.5	0.9	3.1	NW	19.7	40	998	0.0
25/06/22 15:00	59.8	84.8	72.7	60.9	40.4	29.6	0.9	2.2	NW	18.7	42	984	0.0
25/06/22 16:00	61.3	88.1	73.3	63.7	39.1	29.2	0.0	1.3	NNW	14.6	57	977	0.0
25/06/22 17:00	59.8	81.3	73.6	61.5	35.4	24.4	0.0	0.0	---	10.1	71	972	0.0
25/06/22 18:00	59.3	83.0	73.7	58.8	26.7	23.7	0.0	0.4	N	8.2	81	972	0.0
25/06/22 19:00	57.8	80.9	71.6	57.2	25.6	23.7	0.0	0.4	NNW	6.7	86	973	0.0
25/06/22 20:00	54.8	77.6	68.1	53.0	25.8	23.1	0.0	0.4	NNE	5.6	89	974	0.0
25/06/22 21:00	54.6	80.0	68.9	55.1	24.0	21.4	0.0	0.4	NNE	5.1	90	976	0.0
25/06/22 22:00	57.8	79.0	72.0	54.9	21.3	17.8	0.0	0.4	E	4.6	90	978	0.0
25/06/22 23:00	55.7	81.9	70.8	52.8	23.8	18.2	0.0	0.4	E	3.9	91	979	0.0
26/06/22 0:00	50.4	74.5	63.1	44.8	18.8	17.3	0.0	0.4	E	3.8	92	982	0.0
26/06/22 1:00	49.9	76.9	60.1	41.1	19.0	17.2	0.0	0.9	SSE	3.9	93	984	0.0
26/06/22 2:00	52.5	76.1	66.7	44.6	19.2	18.1	0.0	0.4	SSE	3.0	93	985	0.0
26/06/22 3:00	49.3	74.1	62.9	35.8	17.3	16.9	0.0	0.4	SSE	2.3	94	986	0.2
26/06/22 4:00	54.0	77.8	67.9	49.2	18.7	17.4	0.0	0.4	SE	1.6	94	987	0.0
26/06/22 5:00	53.3	79.5	65.9	50.7	23.7	20.0	0.0	0.9	SE	1.6	95	990	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
26/06/22 6:00	55.6	78.5	68.0	55.9	28.8	25.6	0.0	0.9	SE	1.6	94	993	0.0
26/06/22 7:00	59.5	86.8	68.4	61.0	45.7	36.7	0.4	1.3	WSW	5.9	92	1009	0.0
26/06/22 8:00	60.9	89.2	73.7	61.4	41.5	35.1	0.4	1.3	ESE	9.9	77	1004	0.0
26/06/22 9:00	61.6	91.1	73.6	62.6	39.4	32.7	0.4	2.2	ESE	13.8	65	1003	0.0
26/06/22 10:00	61.7	88.9	73.9	61.0	37.1	28.3	0.4	1.8	ESE	17.7	51	1002	0.0
26/06/22 11:00	58.8	84.2	71.8	60.4	34.8	26.0	0.4	2.2	NW	19.2	42	1001	0.0
26/06/22 12:00	59.2	79.8	72.1	61.2	39.6	26.3	0.4	2.7	WNW	20.2	41	1000	0.0
26/06/22 13:00	58.1	81.7	69.9	61.0	36.0	26.3	0.9	4.0	NW	19.8	38	1000	0.0
26/06/22 14:00	60.2	84.8	72.8	61.7	36.0	28.7	0.9	3.6	NW	19.7	39	1000	0.0
26/06/22 15:00	62.5	87.4	74.8	64.1	38.9	30.7	0.9	2.2	WNW	18.1	43	986	0.0
26/06/22 16:00	61.0	85.1	73.3	62.9	39.9	30.7	0.0	2.2	W	14.9	56	979	0.0
26/06/22 17:00	61.9	84.2	74.6	64.1	38.7	31.1	0.0	0.4	NNW	12.7	58	976	0.0
26/06/22 18:00	60.1	78.1	73.4	62.1	30.7	24.1	0.0	0.0	---	8.3	73	975	0.0
26/06/22 19:00	60.9	90.3	73.3	62.4	30.7	24.1	0.0	0.0	---	7.2	83	975	0.0
26/06/22 20:00	60.8	87.8	73.9	60.2	29.8	27.1	0.0	0.4	NNW	6.9	85	978	0.0
26/06/22 21:00	58.3	82.6	72.1	58.4	27.8	25.9	0.0	0.4	NNE	6.2	86	980	0.0
26/06/22 22:00	59.8	85.8	73.6	57.4	26.0	18.4	0.0	0.4	NE	5.4	88	981	0.0
26/06/22 23:00	52.4	79.0	64.0	47.4	20.5	17.4	0.0	0.0	---	4.3	90	982	0.0
27/06/22 0:00	55.8	80.2	69.7	53.8	21.9	19.7	0.0	0.4	ESE	4.2	91	984	0.0
27/06/22 1:00	53.1	78.4	67.9	49.2	18.3	17.2	0.0	0.4	ESE	4.9	91	988	0.0
27/06/22 2:00	51.9	76.7	65.8	43.1	18.2	17.1	0.0	0.4	ESE	4.9	90	990	0.0
27/06/22 3:00	49.3	74.1	62.5	43.7	17.9	17.1	0.0	0.4	N	4.8	91	992	0.0
27/06/22 4:00	53.2	77.5	67.0	48.4	22.0	17.6	0.0	0.4	NNE	3.8	91	991	0.0
27/06/22 5:00	56.6	82.2	69.2	55.5	28.3	25.1	0.0	0.0	---	3.1	93	991	0.0
27/06/22 6:00	61.1	85.0	73.6	62.9	33.6	27.2	0.0	0.4	NNE	2.3	93	992	0.0
27/06/22 7:00	63.0	88.9	74.7	64.6	46.8	38.5	0.0	0.4	ENE	7.3	90	1008	0.0
27/06/22 8:00	60.9	89.1	74.0	61.9	38.9	30.4	0.0	0.9	WSW	11.0	74	1004	0.0
27/06/22 9:00	64.8	98.0	74.6	64.2	38.0	30.0	0.9	3.1	NW	12.7	68	1003	0.0
27/06/22 10:00	62.9	84.5	76.3	64.5	36.7	28.5	1.3	5.4	W	16.1	57	1002	0.0
27/06/22 11:00	61.8	87.1	74.7	63.1	35.5	27.3	1.3	4.0	W	17.6	52	1000	0.0
27/06/22 12:00	63.5	88.2	76.8	64.0	39.9	28.7	3.1	7.6	WNW	19.0	45	1000	0.0
27/06/22 13:00	61.7	89.1	74.8	62.4	44.0	39.2	4.0	7.6	NW	18.2	44	1000	0.0
27/06/22 14:00	61.6	83.5	74.3	63.2	42.9	37.7	3.6	8.9	NW	17.7	40	999	0.0
27/06/22 15:00	63.7	91.1	75.9	64.1	44.4	37.4	3.1	7.6	NW	16.5	42	988	0.0
27/06/22 16:00	63.1	87.9	75.4	64.2	41.7	33.1	1.3	4.0	NW	14.4	50	984	0.0
27/06/22 17:00	64.6	92.2	75.9	67.0	43.6	37.0	0.4	2.2	NNW	12.2	57	982	0.0
27/06/22 18:00	62.5	89.5	75.0	63.9	36.2	35.0	0.9	2.2	NW	11.4	58	983	0.0
27/06/22 19:00	61.7	84.3	74.6	61.6	35.4	21.9	0.0	2.2	WNW	9.2	65	982	0.0
27/06/22 20:00	61.6	87.9	75.0	61.9	25.4	21.4	0.0	0.9	NNW	8.4	68	984	0.0
27/06/22 21:00	61.4	88.4	74.1	61.2	29.3	23.3	0.4	1.3	NNW	7.7	71	986	0.0
27/06/22 22:00	58.4	88.6	72.8	51.8	21.9	17.6	0.0	0.9	NNW	5.6	76	986	0.0
27/06/22 23:00	59.9	83.6	75.1	55.8	19.7	17.3	0.0	0.9	NNW	4.4	82	987	0.0
28/06/22 0:00	56.3	78.8	71.5	54.1	20.3	17.8	0.0	0.4	ENE	2.6	87	987	0.0
28/06/22 1:00	53.9	80.4	66.5	46.7	17.6	17.1	0.0	0.9	ENE	1.6	90	989	0.0
28/06/22 2:00	52.3	79.5	64.3	42.9	17.4	17.1	0.0	0.0	---	0.7	91	990	0.0
28/06/22 3:00	52.1	76.5	64.4	47.4	17.8	17.1	0.0	0.4	N	0.2	92	991	0.0
28/06/22 4:00	54.7	81.6	67.8	44.9	21.2	17.6	0.0	0.9	E	-0.4	93	993	0.0
28/06/22 5:00	59.5	84.8	73.3	59.4	35.1	27.4	0.0	0.4	NNE	-1.1	93	995	0.0
28/06/22 6:00	65.7	91.6	77.8	63.6	42.0	28.6	0.0	0.0	---	-0.5	94	998	0.0
28/06/22 7:00	61.4	87.7	73.7	63.3	46.2	36.8	0.0	0.9	E	4.3	90	1009	0.0
28/06/22 8:00	61.4	87.7	73.5	62.9	40.1	31.5	0.0	0.9	E	8.9	76	1005	0.0
28/06/22 9:00	61.4	86.4	74.3	62.9	38.2	31.3	0.9	2.7	W	12.4	58	1004	0.0
28/06/22 10:00	62.3	85.4	75.0	64.6	36.3	29.0	0.9	3.1	WSW	15.9	49	1003	0.0
28/06/22 11:00	64.7	86.9	76.1	68.0	39.7	30.0	1.3	3.6	WSW	17.4	47	1002	0.0
28/06/22 12:00	63.1	92.7	75.3	64.1	34.6	27.9	1.3	4.9	WSW	18.9	41	1002	0.0
28/06/22 13:00	63.0	87.8	76.1	63.9	37.4	28.2	1.8	5.8	WSW	19.1	38	1001	0.0
28/06/22 14:00	64.1	86.8	75.0	68.1	41.5	30.5	2.2	4.9	WSW	19.2	37	1000	0.0
28/06/22 15:00	64.2	84.5	76.0	67.3	40.5	32.0	1.8	4.5	WSW	18.1	39	997	0.0
28/06/22 16:00	63.5	92.4	74.9	65.8	38.1	31.0	0.4	2.7	WSW	14.8	49	993	0.0
28/06/22 17:00	62.4	90.4	75.1	64.6	40.4	31.4	0.0	0.4	NNE	10.4	65	991	0.0
28/06/22 18:00	61.3	86.8	73.6	62.9	39.7	36.1	0.0	2.2	ESE	10.8	67	993	0.0
28/06/22 19:00	61.6	83.5	74.0	62.4	38.0	36.1	0.0	0.9	ENE	9.1	73	994	0.0
28/06/22 20:00	61.9	85.8	75.1	62.4	29.5	24.1	0.0	0.4	E	7.1	78	996	0.0
28/06/22 21:00	60.3	84.4	73.6	60.7	27.3	20.5	0.0	0.4	ENE	6.6	85	998	0.0
28/06/22 22:00	59.1	81.7	72.8	58.9	22.6	18.4	0.0	0.4	WSW	6.8	83	1003	0.0
28/06/22 23:00	58.1	79.8	72.2	57.6	20.6	18.1	0.0	0.9	ESE	6.2	85	1004	0.0
29/06/22 0:00	55.1	79.3	69.4	50.3	18.7	17.4	0.0	0.4	E	4.7	88	1004	0.0
29/06/22 1:00	54.4	77.3	69.0	48.8	23.5	18.9	0.0	0.4	ENE	4.4	91	1004	0.0
29/06/22 2:00	55.5	82.3	70.5	49.7	18.8	17.2	0.0	0.4	NNE	3.7	92	1003	0.0
29/06/22 3:00	54.4	77.1	69.3	49.0	18.2	17.3	0.0	0.4	NNE	2.4	93	1003	0.0
29/06/22 4:00	55.8	84.8	70.0	49.8	21.4	17.2	0.0	0.4	NNE	2.3	93	1004	0.0
29/06/22 5:00	59.7	89.9	72.1	59.0	25.8	19.1	0.0	1.3	WSW	2.2	93	1004	0.0
29/06/22 6:00	60.5	83.1	74.0	61.5	39.9	30.4	0.0	1.3	NE	2.7	94	1005	0.0
29/06/22 7:00	61.9	84.5	74.9	63.0	46.4	38.6	0.0	1.3	ESE	7.6	91	1006	0.0
29/06/22 8:00	62.6	85.2	75.3	64.4	41.9	33.0	0.4	2.2	W	11.7	73	1004	0.0
29/06/22 9:00	63.3	88.6	76.2	63.8	38.8	30.7	0.9	2.7	WSW	16.1	62	1004	0.0
29/06/22 10:00	63.2	87.6	75.3	66.6	40.0	31.9	2.2	5.8	ESE	16.7	61	1003	0.0
29/06/22 11:00	64.0	86.3	76.6	66.1	43.5	36.7	1.8	5.4	ESE	17.4	59	1002	0.0
29/06/22 12:00	62.8	84.1	75.9	64.4	39.8	33.2	2.2	5.4	ESE	17.2	59	1001	0.0
29/06/22 13:00	63.5	88.6	76.8	64.4	40.1	34.5	2.2	4.9	ESE	17.8	58	1000	0.0
29/06/22 14:00	63.6	86.4	75.1	66.3	40.9	35.1	1.3	3.6	ESE	17.0	62	996	0.0
29/06/22 15:00	61.6	86.4	74.6	62.9	41.5	35.2	1.3	3.6	ESE	16.0	68	996	0.0
29/06/22 16:00	64.6	89.7	76.4	67.2	44.5	35.2	0.9	3.1	ESE	14.9	73	997	0.0
29/06/22 17:00	63.2	87.7	75.9	64.7	40.6	30.3	0.0	0.9	ESE	13.7	76	998	0.0
29/06/22 18:00	62.0	80.7	75.0	63.3	32.7	28.4	0.0	0.4	E	12.3	80	999	0.0
29/06/22 19:00	60.5	83.1	74.2	61.1	32.7	29.5	0.0	0.4	NE	11.3	85	1001	0.0
29/06/22 20:00	61.7	89.3	74.4	62.7	32.8	29.9	0.0	0.0	---	10.6	86	1001	0.0
29/06/22 21:00	62.0	81.7	75.1	63.1	30.6	23.1	0.0	0.0	---	10.7	88	1001	0.0
29/06/22 22:00	59.7	81.2	73.7	59.7	30.8	28.8	0.0	1.8	ESE	10.9	87	1001	0.0
29/06/22 23:00	58.2	81.5	73.0	56.5	28.8	27.0	0.0	0.9	S	10.6	87	1001	0.0
30/06/22 0:00	61.0	89.8	73.6	60.1	31.6	29.0	0.0	0.4	ESE	10.4	86	1000	0.0
30/06/22 1:00	54.7	77.7	69.4	49.9	27.5	24.7	0.0	0.9	ESE	9.7	88	1000	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
30/06/22 2:00	53.7	79.2	67.5	45.2	18.2	17.4	0.0	0.0	---	9.1	90	1000	0.0
30/06/22 3:00	51.4	77.8	61.1	38.7	18.7	17.6	0.0	0.9	E	9.2	91	1000	0.0
30/06/22 4:00	54.6	78.9	67.6	49.3	19.3	17.9	0.0	0.9	ENE	8.2	90	1000	0.0
30/06/22 5:00	59.5	88.2	71.6	56.3	30.2	19.1	0.0	0.9	NW	8.2	92	1001	0.0
30/06/22 6:00	61.3	85.2	74.1	61.7	36.3	26.9	0.0	0.0	---	8.5	93	1002	0.0
30/06/22 7:00	60.1	78.8	73.0	62.3	42.1	31.3	0.0	0.9	S	10.7	89	1002	0.0
30/06/22 8:00	61.7	84.6	74.2	63.8	40.5	31.6	0.4	1.8	ESE	12.7	81	1002	0.0
30/06/22 9:00	62.4	84.5	75.4	63.1	41.3	36.7	0.9	2.2	ESE	14.6	76	1001	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)

Noise Monitoring Data Sheet

Inland Rail B2G

SITE ID
MP12

Address	4 Bengalla Street	**Monitoring Start**	22/06/2022	**Dominant Road**	Cunningham Highway and Wondalli Street
Suburb	Yelarbon	**Monitoring Finish**	30/06/2022	**Dist. to Road (m)**	212 and 25m
District	Goondiwindi	**Mic. Height (m)**	2.7	**Start Cal. (dB(A))**	94.0
Latitude	-28.574593°	**Instrument Type**	01dB Cube	**Post Cal. (dB(A))**	94.3
Longitude	150.750222°	**Monitor Serial**	11100	**Operator**	LAN
Lot No.	1501Y56917	**Measurement**	Facade	**Sample Interval**	1 hour

Daily Noise Level Summary

$L_{A10(18h)}$ dB(A) Avg. Weekday 6am-12am	$L_{A10(12h)}$ dB(A) Avg. Weekday 6am-6pm	$L_{A10(1h)}$ dB(A) Avg. Weekday Peak Hour
52.0	**51.8**	**57.2**

Date	$L_{A10(18h)}$ dB(A)	$L_{A10(12h)}$ dB(A)	$L_{A10(1h\ peak)}$ dB(A)
Wednesday, 22 June 2022	-^	-^	-^
Thursday, 23 June 2022	53.5	52.6	58.4
Friday, 24 June 2022	51.8	50.9	57.5
Saturday, 25 June 2022	51.2	51.4	55.6
Sunday, 26 June 2022	50.6	50.6	56.7
Monday, 27 June 2022	-*	-*	-*
Tuesday, 28 June 2022	50.7	50.2	56.2

^ Measurement period incomplete. * Measurement excluded due to weather impacts or extraneous noise.

Site Aerial Imagery

Site Photos

Attended Measurement Summary

Attended Measurement #1: Wednesday, 22 June 2022

Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
11:49 AM	12:04 PM	Attended	53.8	28.4	75.0	67.6	51.0	34.3
11:00 AM	12:00 PM	Logger	54.6	30.9	79.2	68.3	52.1	35.4

Comments

Traffic on Wondalli St (Yelarbon Keetah Road) infrequent. Distant traffic on Cunningham Highway. Infrequent traffic on Kera Street. Resident talking briefly.

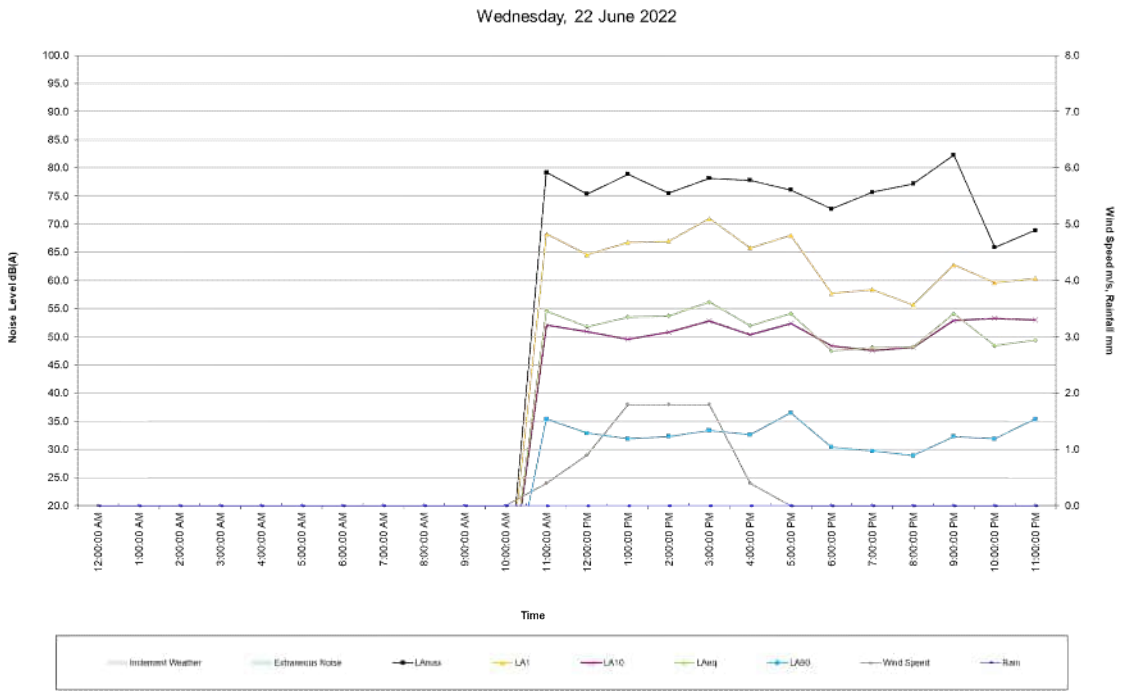
Attended Measurement #2: Thursday, 30 June 2022

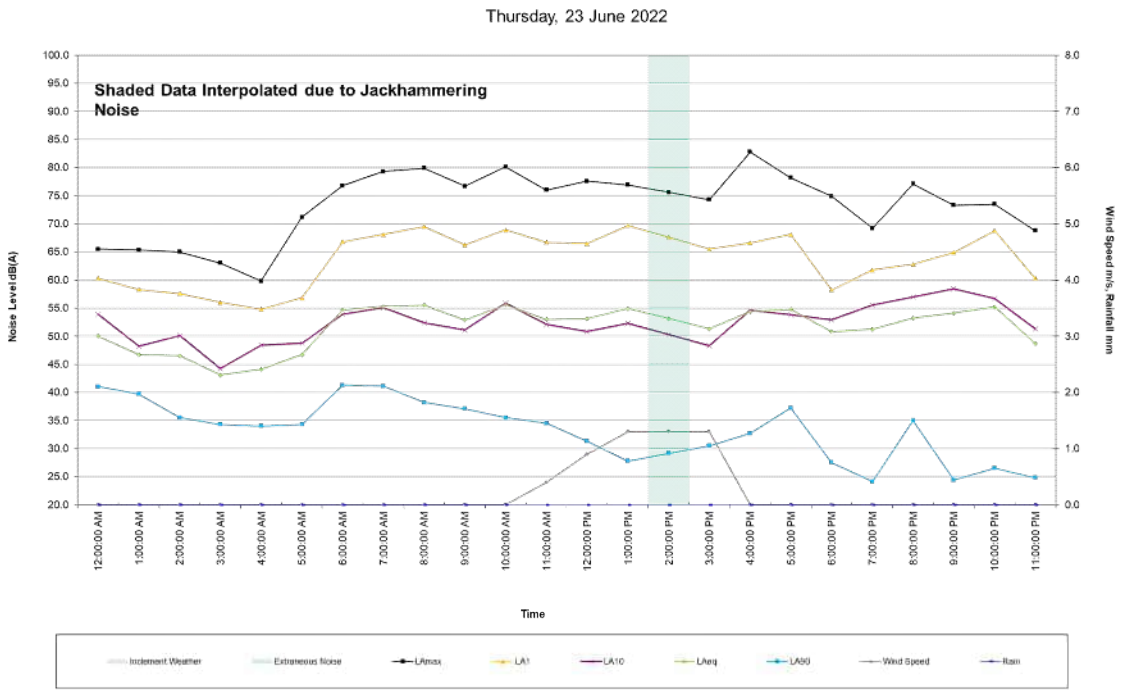
Start Time	End Time	Type	Leq	Lmin	Lmax	L1	L10	L90
8:44 AM	8:59 AM	Attended	58.6	32.8	78.9	73.5	51.4	38.0
8:00 AM	9:00 AM	Logger	54.7	27.8	80.2	66.6	50.8	35.7

Comments

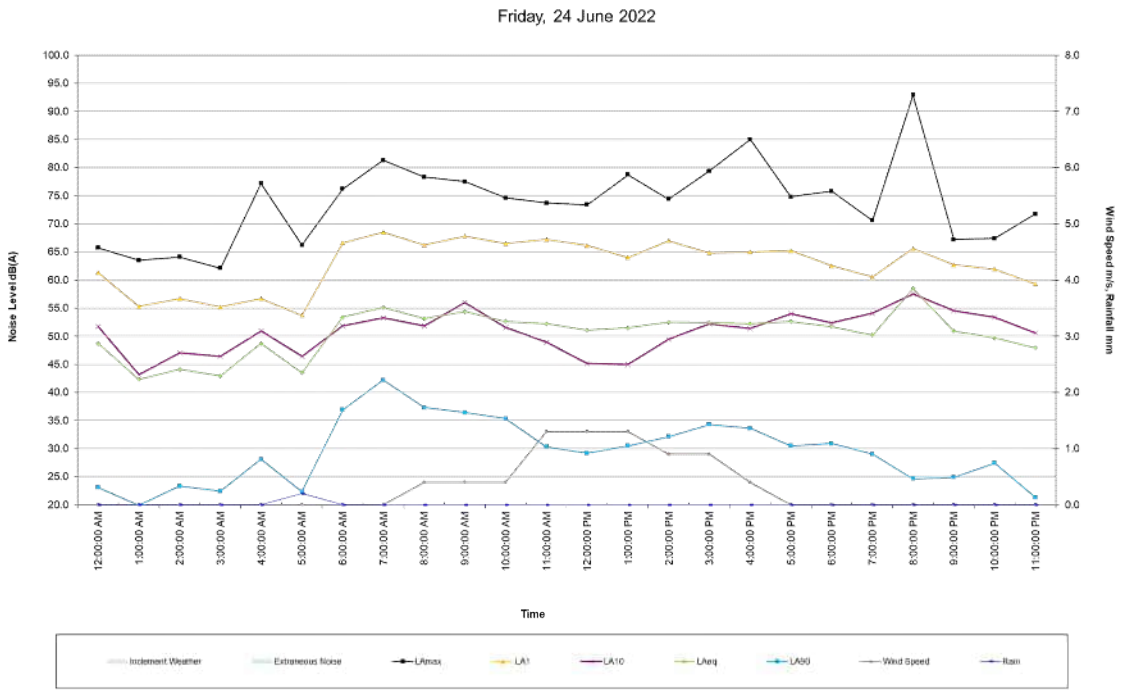
The noise is mostly truck hum noise from Cunningham Highway. Most of this noise comes from the Cunningham Highway from North-West and secondarily from the Cunningham Highway from East. Only 3 truck pass-bys on Wondalli St during measurement and only 1 car. 0:13 min of Wondalli St car noise at 64 dBA. 0:41 min of Wondalli St H.V. noise at 62-78 dBA. 10:58 min of Distant traffic noise from the Cunningham Highway at 38-55 dBA. 0:08 min of Cunningham Highway H.V.s noise at 50-51 dBA.

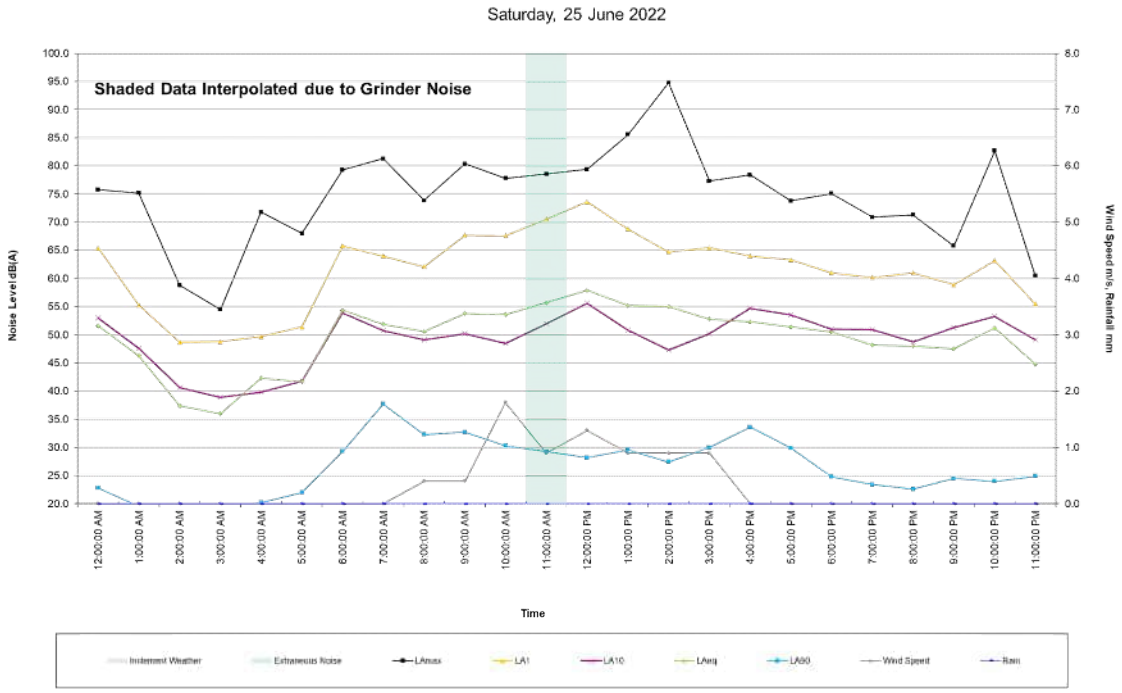
Site Noise and Weather Conditions



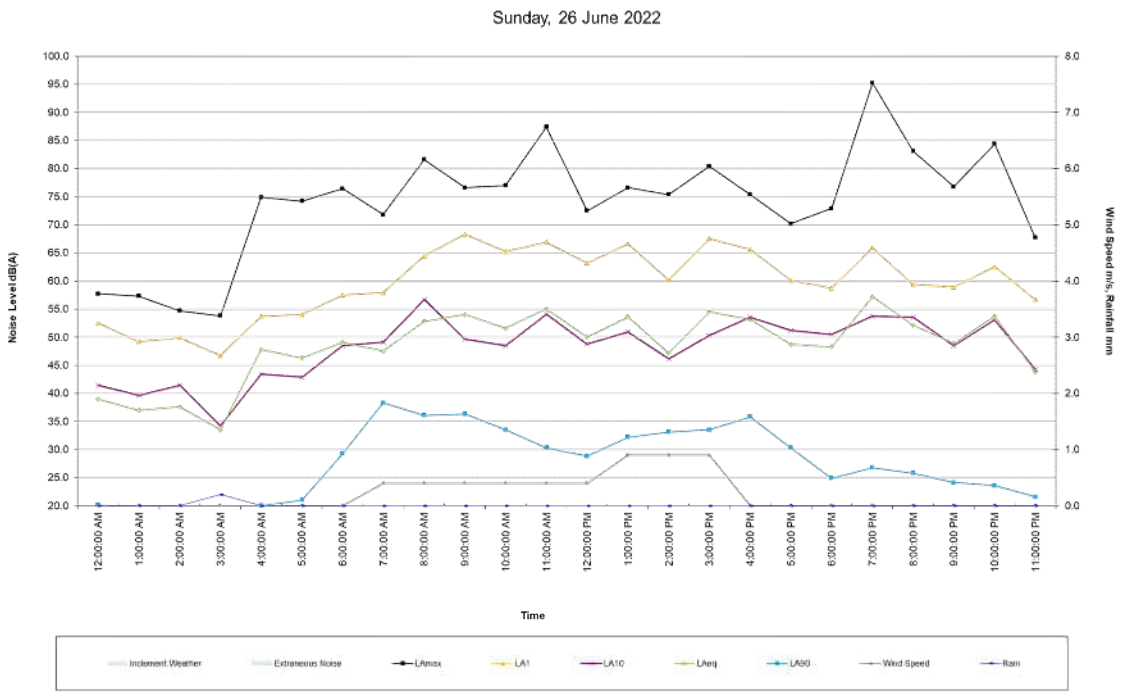


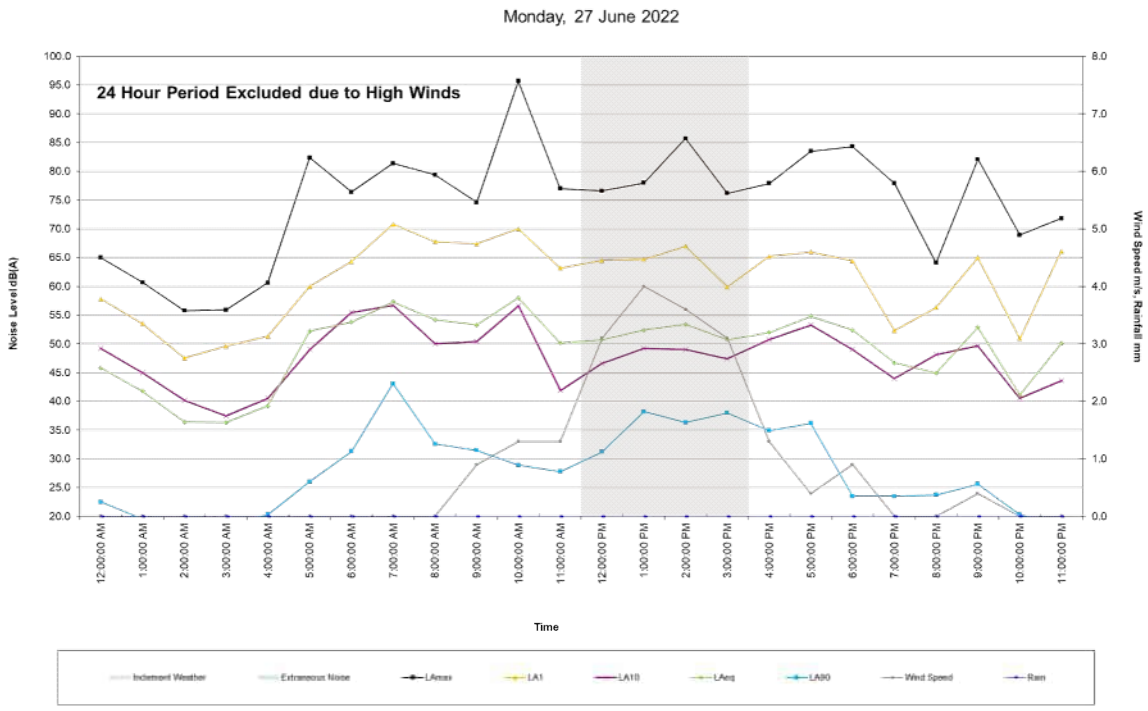
Site Noise and Weather Conditions



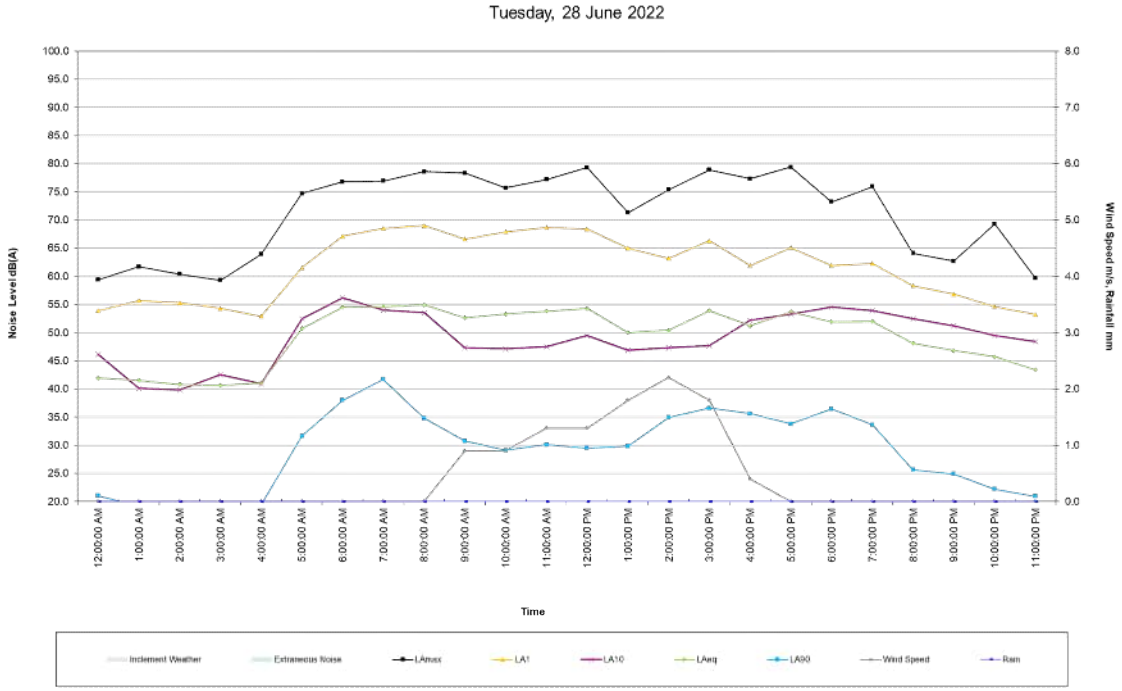


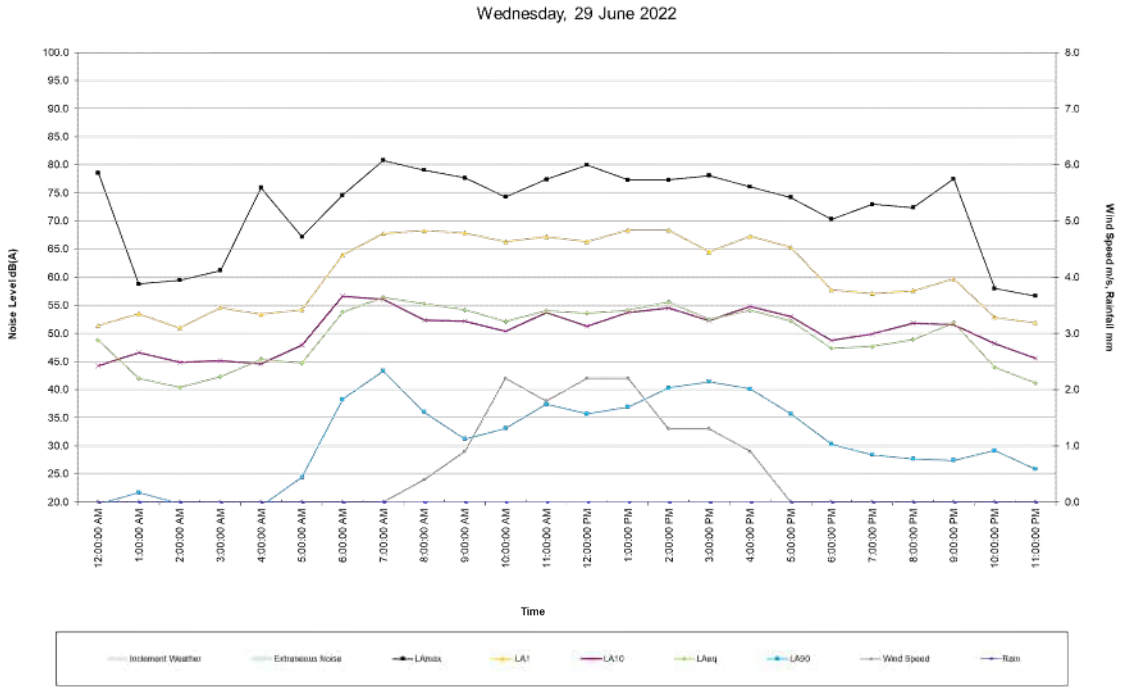
Site Noise and Weather Conditions



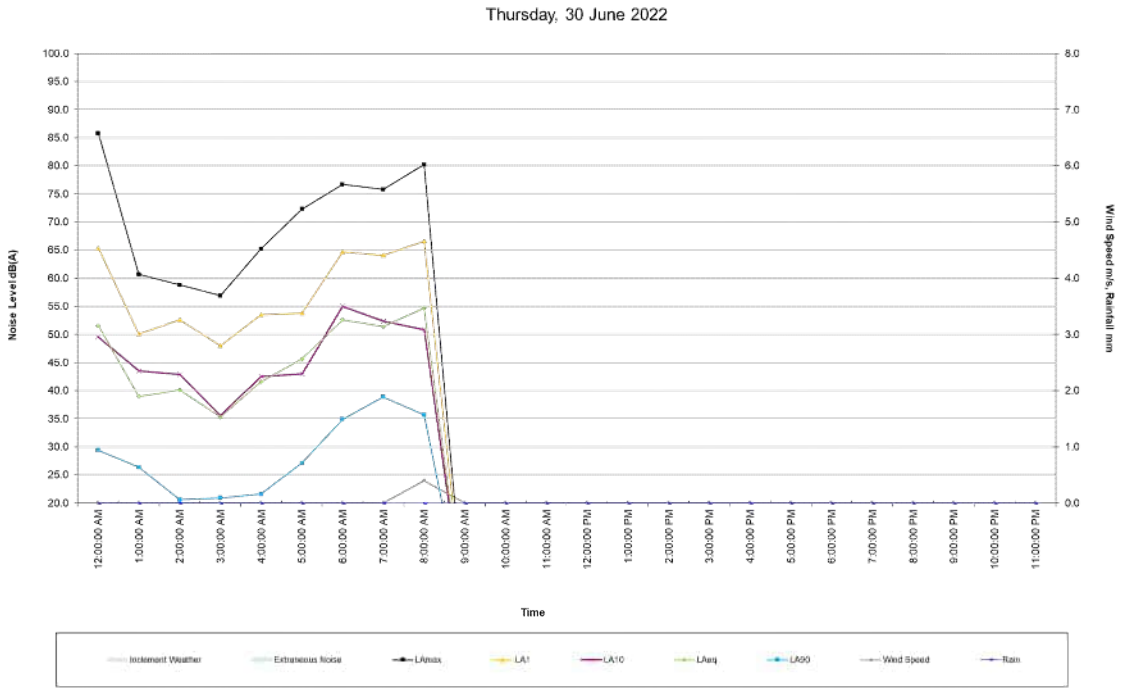


Site Noise and Weather Conditions





Site Noise and Weather Conditions



Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
22/06/22 11:00	54.6	79.2	68.3	52.1	35.4	30.9	0.4	2.7	NW	19.8	52	1000	0.0
22/06/22 12:00	51.8	75.4	64.6	50.9	32.9	27.2	0.9	3.6	WNW	20.8	49	999	0.0
22/06/22 13:00	53.5	78.9	66.8	49.6	31.9	26.6	1.8	4.5	NW	20.8	46	999	0.0
22/06/22 14:00	53.7	75.5	67.0	50.8	32.3	25.4	1.8	4.0	NW	20.8	45	999	0.0
22/06/22 15:00	56.2	78.2	71.0	52.8	33.4	25.7	1.8	4.0	WNW	19.9	48	986	0.0
22/06/22 16:00	52.0	77.8	65.8	50.4	32.6	22.6	0.4	2.2	WNW	17.6	56	982	0.0
22/06/22 17:00	54.1	76.1	68.0	52.4	36.5	31.1	0.0	0.0	---	14.2	68	979	0.0
22/06/22 18:00	47.5	72.7	57.7	48.4	30.4	22.8	0.0	0.0	---	10.7	76	978	0.0
22/06/22 19:00	48.1	75.7	58.4	47.6	29.7	22.8	0.0	0.0	---	11.8	73	979	0.0
22/06/22 20:00	48.2	77.2	55.7	48.1	28.9	23.9	0.0	0.0	---	9.4	80	980	0.0
22/06/22 21:00	54.1	82.3	62.8	52.9	32.3	26.3	0.0	0.0	---	7.4	85	981	0.0
22/06/22 22:00	48.4	65.9	59.6	53.3	31.9	29.2	0.0	0.0	---	6.1	89	982	0.0
22/06/22 23:00	49.4	68.9	60.4	53.0	35.4	31.0	0.0	0.0	---	4.9	91	983	0.0
23/06/22 0:00	50.0	65.5	60.3	53.9	41.0	39.7	0.0	0.0	---	4.2	93	985	0.0
23/06/22 1:00	46.7	65.3	58.3	48.2	39.7	38.6	0.0	0.0	---	3.9	93	987	0.0
23/06/22 2:00	46.5	65.0	57.6	50.1	35.5	33.9	0.0	0.0	---	3.1	94	988	0.0
23/06/22 3:00	43.1	63.0	56.0	44.2	34.3	33.6	0.0	0.0	---	2.5	94	989	0.0
23/06/22 4:00	44.1	59.8	54.8	48.4	34.0	32.6	0.0	0.0	---	2.4	95	991	0.0
23/06/22 5:00	46.7	71.2	56.8	48.8	34.3	33.2	0.0	0.0	---	1.6	94	993	0.0
23/06/22 6:00	54.7	76.8	66.8	53.9	41.3	37.0	0.0	0.0	---	2.2	95	996	0.0
23/06/22 7:00	55.3	79.3	68.1	55.1	41.1	36.7	0.0	0.9	ESE	6.2	93	1008	0.0
23/06/22 8:00	55.5	79.9	69.5	52.4	38.2	36.0	0.0	0.9	ESE	10.8	83	1004	0.0
23/06/22 9:00	52.9	76.7	66.2	51.1	37.1	31.6	0.0	1.3	SE	14.1	72	1003	0.0
23/06/22 10:00	55.6	80.1	68.9	55.9	35.5	27.9	0.0	1.8	NW	16.0	61	1003	0.0
23/06/22 11:00	53.0	76.0	66.7	52.1	34.5	28.6	0.4	2.2	NW	18.6	48	1001	0.0
23/06/22 12:00	53.1	77.6	66.5	50.8	31.3	25.6	0.9	3.1	NW	19.3	35	1000	0.0
23/06/22 13:00	54.9	76.9	69.7	52.3	27.8	24.2	1.3	3.6	W	19.7	40	999	0.0
23/06/22 14:00	53.1	75.6	67.6	50.3	29.2	24.1	1.3	3.6	NW	19.8	39	999	0.0
23/06/22 15:00	51.3	74.3	65.5	48.3	30.5	24.0	1.3	3.1	NW	18.7	40	984	0.0
23/06/22 16:00	54.4	82.8	66.6	54.6	32.7	25.2	0.0	2.2	NW	15.2	50	978	0.0
23/06/22 17:00	54.8	78.2	68.1	53.8	37.2	26.2	0.0	0.0	---	10.3	69	974	0.0
23/06/22 18:00	50.8	74.9	58.2	52.9	27.5	21.7	0.0	0.0	---	8.3	77	974	0.0
23/06/22 19:00	51.2	69.2	61.8	55.5	24.1	21.1	0.0	0.4	NNE	6.7	85	975	0.0
23/06/22 20:00	53.2	77.1	62.8	57.0	35.0	24.0	0.0	0.0	---	5.3	88	975	0.0
23/06/22 21:00	54.1	73.3	64.9	58.4	24.4	20.3	0.0	0.0	---	4.4	90	977	0.0
23/06/22 22:00	55.2	73.5	68.8	56.7	26.5	21.5	0.0	0.0	---	3.6	91	979	0.0
23/06/22 23:00	48.7	68.8	60.3	51.3	24.8	20.8	0.0	0.4	NNE	3.3	92	981	0.0
24/06/22 0:00	48.7	65.7	61.3	51.7	23.1	19.9	0.0	0.4	NNE	2.9	92	983	0.0
24/06/22 1:00	42.3	63.5	55.3	43.2	19.9	19.3	0.0	0.4	NNE	2.2	93	984	0.0
24/06/22 2:00	44.1	64.1	56.7	47.0	23.3	22.3	0.0	0.4	NNE	2.0	93	986	0.0
24/06/22 3:00	42.9	62.1	55.2	46.4	22.4	21.2	0.0	0.4	NNE	1.8	94	988	0.0
24/06/22 4:00	48.7	77.2	56.7	50.9	28.1	21.8	0.0	0.4	NNE	1.3	94	989	0.0
24/06/22 5:00	43.5	66.2	53.7	46.4	22.3	19.4	0.0	0.4	NNW	1.1	94	991	0.2
24/06/22 6:00	53.4	76.2	66.6	51.8	36.9	31.1	0.0	0.4	NNE	0.9	94	994	0.0
24/06/22 7:00	55.1	81.3	68.5	53.3	42.2	37.3	0.0	0.9	ESE	4.9	92	1007	0.0
24/06/22 8:00	53.1	78.3	66.2	51.8	37.3	32.4	0.4	1.3	SE	8.8	80	1002	0.0
24/06/22 9:00	54.4	77.5	67.8	56.0	36.4	31.3	0.4	1.3	SE	13.1	64	1001	0.0
24/06/22 10:00	52.6	74.6	66.5	51.6	35.3	29.6	0.4	2.2	SE	16.4	56	1000	0.0
24/06/22 11:00	52.2	73.7	67.2	48.9	30.3	25.0	1.3	4.0	NW	16.8	51	999	0.0
24/06/22 12:00	51.1	73.4	66.1	45.1	29.2	22.6	1.3	3.6	NW	18.5	43	998	0.0
24/06/22 13:00	51.5	78.7	64.0	45.0	30.5	25.6	1.3	4.0	NW	18.6	41	998	0.0
24/06/22 14:00	52.5	74.4	67.0	49.5	32.1	27.9	0.9	4.0	NW	19.1	43	997	0.0
24/06/22 15:00	52.4	79.4	64.8	52.2	34.3	23.3	0.9	2.7	NW	17.9	45	984	0.0
24/06/22 16:00	52.2	85.0	65.0	51.4	33.6	22.9	0.4	1.8	NW	14.4	56	978	0.0
24/06/22 17:00	52.6	74.8	65.2	54.0	30.5	23.7	0.0	1.8	WSW	11.0	72	975	0.0
24/06/22 18:00	51.7	75.8	62.5	52.4	30.9	24.2	0.0	0.4	NNE	8.8	77	975	0.0
24/06/22 19:00	50.2	70.6	60.5	54.1	29.0	22.0	0.0	0.0	---	6.8	86	976	0.0
24/06/22 20:00	58.5	92.9	65.6	57.5	24.6	21.0	0.0	0.0	---	5.3	89	977	0.0
24/06/22 21:00	50.9	67.2	62.7	54.5	24.9	19.9	0.0	0.0	---	4.7	91	978	0.0
24/06/22 22:00	49.7	67.4	61.9	53.4	27.4	23.0	0.0	0.4	NNE	3.6	91	980	0.0
24/06/22 23:00	47.9	71.7	59.3	50.6	21.3	19.4	0.0	0.4	N	3.1	92	983	0.0
25/06/22 0:00	51.6	75.8	65.4	53.0	22.8	19.4	0.0	0.4	ESE	2.9	93	984	0.0
25/06/22 1:00	46.3	75.2	55.3	47.6	19.5	18.9	0.0	0.4	ESE	2.4	93	985	0.0
25/06/22 2:00	37.4	58.8	48.7	40.6	19.5	18.9	0.0	0.4	ESE	2.6	94	988	0.0
25/06/22 3:00	36.0	54.5	48.8	38.9	19.4	18.7	0.0	0.4	ENE	2.1	94	989	0.0
25/06/22 4:00	42.3	71.8	49.7	39.8	20.2	19.2	0.0	0.9	ESE	1.8	94	991	0.0
25/06/22 5:00	41.7	68.0	51.4	41.8	22.0	19.6	0.0	0.4	ESE	1.6	94	993	0.0
25/06/22 6:00	54.4	79.3	65.8	53.9	29.3	23.2	0.0	0.4	ESE	1.4	95	995	0.0
25/06/22 7:00	51.9	81.3	64.0	50.7	37.7	32.0	0.0	1.3	ESE	5.3	92	1006	0.0
25/06/22 8:00	50.6	73.9	62.1	49.1	32.3	27.3	0.4	1.3	ESE	9.5	79	1002	0.0
25/06/22 9:00	53.8	80.4	67.7	50.2	32.7	28.2	0.4	2.2	ESE	13.7	67	1001	0.0
25/06/22 10:00	53.6	77.8	67.6	48.5	30.3	24.9	1.8	4.5	WSW	16.4	54	1001	0.0
25/06/22 11:00	55.8	78.6	70.6	52.1	29.3	23.7	0.9	4.0	WSW	18.1	52	1000	0.0
25/06/22 12:00	57.9	79.4	73.6	55.6	28.2	22.4	1.3	4.0	NW	19.0	44	999	0.0
25/06/22 13:00	55.2	85.6	68.8	50.8	29.6	22.9	0.9	4.0	W	19.7	42	998	0.0
25/06/22 14:00	55.0	94.8	64.7	47.3	27.4	22.2	0.9	3.1	NW	19.7	40	998	0.0
25/06/22 15:00	52.8	77.3	65.5	50.2	30.0	23.4	0.9	2.2	NW	18.7	42	984	0.0
25/06/22 16:00	52.3	78.4	64.0	54.7	33.6	24.8	0.0	1.3	NNW	14.6	57	977	0.0
25/06/22 17:00	51.4	73.8	63.3	53.5	29.9	21.7	0.0	0.0	---	10.1	71	972	0.0
25/06/22 18:00	50.5	75.1	61.0	51.0	24.8	20.5	0.0	0.4	N	8.2	81	972	0.0
25/06/22 19:00	48.2	70.9	60.2	50.9	23.4	20.8	0.0	0.4	NNW	6.7	86	973	0.0
25/06/22 20:00	48.0	71.3	61.0	48.8	22.6	20.4	0.0	0.4	NNE	5.6	89	974	0.0
25/06/22 21:00	47.5	65.8	58.9	51.3	24.5	21.2	0.0	0.4	NNE	5.1	90	976	0.0
25/06/22 22:00	51.2	82.7	63.2	53.3	24.0	20.6	0.0	0.4	E	4.6	90	978	0.0
25/06/22 23:00	44.8	60.5	55.5	49.1	24.9	19.7	0.0	0.4	E	3.9	91	979	0.0
26/06/22 0:00	39.0	57.7	52.5	41.4	20.1	19.2	0.0	0.4	E	3.8	92	982	0.0
26/06/22 1:00	37.0	57.3	49.2	39.6	19.9	18.9	0.0	0.9	SSE	3.9	93	984	0.0
26/06/22 2:00	37.6	54.7	49.9	41.4	19.7	19.0	0.0	0.4	SSE	3.0	93	985	0.0
26/06/22 3:00	33.5	53.8	46.7	34.2	19.2	18.7	0.0	0.4	SSE	2.3	94	986	0.2
26/06/22 4:00	47.8	74.9	53.7	43.4	20.0	19.1	0.0	0.4	SE	1.6	94	987	0.0
26/06/22 5:00	46.3	74.2	54.0	42.9	21.0	19.3	0.0	0.9	SE	1.6	95	990	0.0
26/06/22 6:00	49.1	76.4	57.5	48.5	29.3	24.0	0.0	0.9	SE	1.6	94	993	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
26/06/22 7:00	47.5	71.8	57.9	49.1	38.3	33.1	0.4	1.3	WSW	5.9	92	1009	0.0
26/06/22 8:00	52.8	81.6	64.4	56.7	36.1	32.3	0.4	1.3	ESE	9.9	77	1004	0.0
26/06/22 9:00	54.0	76.6	68.3	49.7	36.3	30.3	0.4	2.2	ESE	13.8	65	1003	0.0
26/06/22 10:00	51.6	77.0	65.2	48.5	33.5	29.0	0.4	1.8	ESE	17.7	51	1002	0.0
26/06/22 11:00	55.0	87.4	66.9	54.1	30.3	22.9	0.4	2.2	NW	19.2	42	1001	0.0
26/06/22 12:00	50.0	72.5	63.2	48.8	28.8	23.6	0.4	2.7	WNW	20.2	41	1000	0.0
26/06/22 13:00	53.6	76.6	66.6	50.9	32.2	24.1	0.9	4.0	NW	19.8	38	1000	0.0
26/06/22 14:00	47.2	75.4	60.2	46.1	33.1	25.4	0.9	3.6	NW	19.7	39	1000	0.0
26/06/22 15:00	54.5	80.4	67.5	50.3	33.5	22.9	0.9	2.2	WNW	18.1	43	986	0.0
26/06/22 16:00	53.1	75.4	65.6	53.5	35.8	24.7	0.0	2.2	W	14.9	56	979	0.0
26/06/22 17:00	48.7	70.2	60.1	51.2	30.3	23.8	0.0	0.4	NNW	12.7	58	976	0.0
26/06/22 18:00	48.3	72.9	58.7	50.5	24.9	21.1	0.0	0.0	---	8.3	73	975	0.0
26/06/22 19:00	57.2	95.2	65.9	53.7	26.8	22.3	0.0	0.0	---	7.2	83	975	0.0
26/06/22 20:00	52.1	83.1	59.4	53.5	25.8	21.1	0.0	0.4	NNW	6.9	85	978	0.0
26/06/22 21:00	48.9	76.8	58.9	48.5	24.1	20.6	0.0	0.4	NNE	6.2	86	980	0.0
26/06/22 22:00	53.7	84.4	62.5	53.1	23.6	19.5	0.0	0.4	NE	5.4	88	981	0.0
26/06/22 23:00	43.8	67.7	56.7	44.2	21.6	19.2	0.0	0.0	---	4.3	90	982	0.0
27/06/22 0:00	45.8	65.0	57.8	49.2	22.5	20.7	0.0	0.4	ESE	4.2	91	984	0.0
27/06/22 1:00	41.8	60.7	53.5	45.0	19.5	18.8	0.0	0.4	ESE	4.9	91	988	0.0
27/06/22 2:00	36.4	55.8	47.5	40.2	18.9	18.5	0.0	0.4	ESE	4.9	90	990	0.0
27/06/22 3:00	36.3	55.9	49.6	37.5	18.8	18.5	0.0	0.4	N	4.8	91	992	0.0
27/06/22 4:00	39.2	60.6	51.3	40.5	20.3	18.9	0.0	0.4	NNE	3.8	91	991	0.0
27/06/22 5:00	52.2	82.4	60.0	49.0	26.0	20.7	0.0	0.0	---	3.1	93	991	0.0
27/06/22 6:00	53.8	76.4	64.3	55.4	31.3	21.4	0.0	0.4	NNE	2.3	93	992	0.0
27/06/22 7:00	57.3	81.4	70.8	56.7	43.1	37.2	0.0	0.4	ENE	7.3	90	1008	0.0
27/06/22 8:00	54.2	79.4	67.8	50.0	32.6	28.2	0.0	0.9	WSW	11.0	74	1004	0.0
27/06/22 9:00	53.3	74.6	67.4	50.4	31.5	26.5	0.9	3.1	NW	12.7	68	1003	0.0
27/06/22 10:00	58.0	95.7	70.0	56.6	28.9	22.8	1.3	5.4	W	16.1	57	1002	0.0
27/06/22 11:00	50.2	77.0	63.2	41.9	27.8	22.9	1.3	4.0	W	17.6	52	1000	0.0
27/06/22 12:00	50.7	76.6	64.5	46.6	31.2	26.5	3.1	7.6	WNW	19.0	45	1000	0.0
27/06/22 13:00	52.4	78.0	64.7	49.2	38.2	32.6	4.0	7.6	NW	18.2	44	1000	0.0
27/06/22 14:00	53.4	85.7	67.0	49.0	36.3	31.4	3.6	8.9	NW	17.7	40	999	0.0
27/06/22 15:00	50.7	76.2	59.9	47.4	38.0	33.9	3.1	7.6	NW	16.5	42	988	0.0
27/06/22 16:00	52.0	77.9	65.2	50.7	34.9	27.8	1.3	4.0	NW	14.4	50	984	0.0
27/06/22 17:00	54.8	83.5	66.0	53.3	36.2	28.9	0.4	2.2	NNW	12.2	57	982	0.0
27/06/22 18:00	52.4	84.3	64.4	49.0	23.5	20.3	0.9	2.2	NW	11.4	58	983	0.0
27/06/22 19:00	46.7	77.9	52.3	44.0	23.5	19.4	0.0	2.2	WNW	9.2	65	982	0.0
27/06/22 20:00	44.9	64.1	56.3	48.1	23.7	18.8	0.0	0.9	NNW	8.4	68	984	0.0
27/06/22 21:00	52.9	82.1	65.0	49.7	25.6	20.2	0.4	1.3	NNW	7.7	71	986	0.0
27/06/22 22:00	41.1	68.9	50.9	40.5	20.3	18.6	0.0	0.9	NNW	5.6	76	986	0.0
27/06/22 23:00	50.1	71.8	66.1	43.6	18.9	18.1	0.0	0.9	NNW	4.4	82	987	0.0
28/06/22 0:00	41.9	59.4	53.9	46.1	21.0	19.1	0.0	0.4	ENE	2.6	87	987	0.0
28/06/22 1:00	41.5	61.7	55.7	40.1	19.2	18.5	0.0	0.9	ENE	1.6	90	989	0.0
28/06/22 2:00	40.8	60.4	55.3	39.8	18.6	18.3	0.0	0.0	---	0.7	91	990	0.0
28/06/22 3:00	40.6	59.3	54.3	42.5	19.0	18.5	0.0	0.4	N	0.2	92	991	0.0
28/06/22 4:00	41.0	63.9	52.9	40.9	19.4	18.2	0.0	0.9	E	-0.4	93	993	0.0
28/06/22 5:00	50.7	74.7	61.5	52.5	31.6	27.3	0.0	0.4	NNE	-1.1	93	995	0.0
28/06/22 6:00	54.5	76.8	67.1	56.2	38.0	28.7	0.0	0.0	---	-0.5	94	998	0.0
28/06/22 7:00	54.6	76.9	68.5	54.0	41.7	36.0	0.0	0.9	E	4.3	90	1009	0.0
28/06/22 8:00	54.9	78.6	69.0	53.5	34.8	28.6	0.0	0.9	E	8.9	76	1005	0.0
28/06/22 9:00	52.6	78.3	66.6	47.3	30.7	25.6	0.9	2.7	W	12.4	58	1004	0.0
28/06/22 10:00	53.3	75.7	67.9	47.1	29.1	24.4	0.9	3.1	WSW	15.9	49	1003	0.0
28/06/22 11:00	53.8	77.2	68.7	47.5	30.1	25.6	1.3	3.6	WSW	17.4	47	1002	0.0
28/06/22 12:00	54.3	79.3	68.4	49.5	29.5	23.3	1.3	4.9	WSW	18.9	41	1002	0.0
28/06/22 13:00	50.0	71.3	65.0	46.9	29.8	24.9	1.8	5.8	WSW	19.1	38	1001	0.0
28/06/22 14:00	50.4	75.4	63.2	47.3	34.9	27.1	2.2	4.9	WSW	19.2	37	1000	0.0
28/06/22 15:00	53.9	78.9	66.3	47.7	36.6	27.4	1.8	4.5	WSW	18.1	39	997	0.0
28/06/22 16:00	51.2	77.3	61.9	52.2	35.6	28.0	0.4	2.7	WSW	14.8	49	993	0.0
28/06/22 17:00	53.7	79.4	65.1	53.3	33.8	25.9	0.0	0.4	NNE	10.4	65	991	0.0
28/06/22 18:00	51.9	73.2	61.9	54.5	36.4	27.4	0.0	2.2	ESE	10.8	67	993	0.0
28/06/22 19:00	52.0	75.9	62.3	53.9	33.6	26.2	0.0	0.9	ENE	9.1	73	994	0.0
28/06/22 20:00	48.1	64.1	58.3	52.5	25.6	20.4	0.0	0.4	E	7.1	78	996	0.0
28/06/22 21:00	46.8	62.7	56.8	51.2	24.9	20.1	0.0	0.4	ENE	6.6	85	998	0.0
28/06/22 22:00	45.7	69.3	54.6	49.5	22.2	19.8	0.0	0.4	WSW	6.8	83	1003	0.0
28/06/22 23:00	43.4	59.7	53.2	48.4	20.9	19.5	0.0	0.9	ESE	6.2	85	1004	0.0
29/06/22 0:00	48.8	78.6	51.4	44.2	19.6	19.0	0.0	0.4	E	4.7	88	1004	0.0
29/06/22 1:00	42.0	58.8	53.5	46.6	21.7	20.3	0.0	0.4	ENE	4.4	91	1004	0.0
29/06/22 2:00	40.4	59.5	51.0	44.9	19.7	18.9	0.0	0.4	NNE	3.7	92	1003	0.0
29/06/22 3:00	42.3	61.2	54.6	45.1	19.6	19.1	0.0	0.4	NNE	2.4	93	1003	0.0
29/06/22 4:00	45.4	75.9	53.4	44.6	19.3	18.7	0.0	0.4	NNE	2.3	93	1004	0.0
29/06/22 5:00	44.7	67.2	54.2	47.9	24.4	20.0	0.0	1.3	WSW	2.2	93	1004	0.0
29/06/22 6:00	53.8	74.6	64.0	56.6	38.3	31.7	0.0	1.3	NE	2.7	94	1005	0.0
29/06/22 7:00	56.4	80.8	67.8	56.1	43.3	38.4	0.0	1.3	ESE	7.6	91	1006	0.0
29/06/22 8:00	55.3	79.1	68.3	52.4	36.0	30.4	0.4	2.2	W	11.7	73	1004	0.0
29/06/22 9:00	54.2	77.7	67.9	52.2	31.2	25.4	0.9	2.7	WSW	16.1	62	1004	0.0
29/06/22 10:00	52.1	74.3	66.3	50.4	33.1	27.0	2.2	5.8	ESE	16.7	61	1003	0.0
29/06/22 11:00	54.0	77.4	67.2	53.7	37.4	31.6	1.8	5.4	ESE	17.4	59	1002	0.0
29/06/22 12:00	53.6	80.0	66.3	51.3	35.7	31.0	2.2	5.4	ESE	17.2	59	1001	0.0
29/06/22 13:00	54.1	77.3	68.4	53.7	36.9	31.4	2.2	4.9	ESE	17.8	58	1000	0.0
29/06/22 14:00	55.6	77.3	68.4	54.5	40.3	29.9	1.3	3.6	ESE	17.0	62	996	0.0
29/06/22 15:00	52.5	78.1	64.5	52.3	41.4	29.5	1.3	3.6	ESE	16.0	68	996	0.0
29/06/22 16:00	54.1	76.1	67.3	54.8	40.1	33.3	0.9	3.1	ESE	14.9	73	997	0.0
29/06/22 17:00	52.2	74.2	65.3	53.0	35.7	26.8	0.0	0.9	ESE	13.7	76	998	0.0
29/06/22 18:00	47.4	70.3	57.7	48.8	30.3	24.0	0.0	0.4	E	12.3	80	999	0.0
29/06/22 19:00	47.7	73.0	57.1	49.9	28.4	24.2	0.0	0.4	NE	11.3	85	1001	0.0
29/06/22 20:00	48.9	72.4	57.6	51.8	27.7	24.3	0.0	0.0	---	10.6	86	1001	0.0
29/06/22 21:00	51.9	77.5	59.7	51.6	27.4	23.1	0.0	0.0	---	10.7	88	1001	0.0
29/06/22 22:00	44.0	58.0	52.9	48.2	29.2	26.1	0.0	1.8	ESE	10.9	87	1001	0.0
29/06/22 23:00	41.2	56.7	51.9	45.6	25.9	24.2	0.0	0.9	S	10.6	87	1001	0.0
30/06/22 0:00	51.6	85.8	65.4	49.6	29.4	26.4	0.0	0.4	ESE	10.4	86	1000	0.0
30/06/22 1:00	39.0	60.7	50.1	43.5	26.4	23.7	0.0	0.9	ESE	9.7	88	1000	0.0
30/06/22 2:00	40.1	58.8	52.6	42.9	20.6	20.1	0.0	0.0	---	9.1	90	1000	0.0

Site Noise and Weather Conditions

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)
30/06/22 3:00	35.3	56.9	48.0	35.6	20.9	20.2	0.0	0.9	E	9.2	91	1000	0.0
30/06/22 4:00	41.6	65.2	53.5	42.5	21.6	20.3	0.0	0.9	ENE	8.2	90	1000	0.0
30/06/22 5:00	45.6	72.3	53.8	43.0	27.1	20.8	0.0	0.9	NW	8.2	92	1001	0.0
30/06/22 6:00	52.6	76.7	64.7	55.0	34.9	27.6	0.0	0.0	---	8.5	93	1002	0.0
30/06/22 7:00	51.4	75.8	64.1	52.4	38.9	31.6	0.0	0.9	S	10.7	89	1002	0.0
30/06/22 8:00	54.7	80.2	66.6	50.8	35.7	27.8	0.4	1.8	ESE	12.7	81	1002	0.0

Start Time	$L_{Aeq(1h)}$ dB(A)	$L_{Amax(1h)}$ dB(A)	$L_{A1(1h)}$ dB(A)	$L_{A10(1h)}$ dB(A)	$L_{A90(1h)}$ dB(A)	$L_{Amin(1h)}$ dB(A)	Avg. Wind Speed (m/s)	Max Wind Speed (m/s)	Wind Direction	Temperature (°C)	Humidity (%)	Air Pressure (hPa)	Rain (mm)

C.2.6 Calibration certificates

Ecotech

ACOEM Group

Doc ID: EMS 1403
Rev Date: 5/11/18

Calibration Report

TR-REP-10552.xls

ISSUED FOR :

AECOM AUSTRALIA PTY LTD

Level 8
540 Wickham Street
Fortitude Valley
4006 Queensland
Australia

Name and location of the laboratory of tests:
Ecotech - 1492 Ferntree Gully Road, Knoxfield VIC 3180- Australia

TESTED INSTRUMENT
Designation : Integrator Sound Level Meter

Manufacturer : 01dB

Type : DUO

Serial number : 10585

Identification number : 90-3110
SWR : 24901

Date of issue : 13/04/2022

This report includes 10 pages

The measurements are performed according to the IEC 61672-3, Electroacoustics, - Sound level meters – Part 3: Periodic tests.

REPORT APPROVED BY

Leigh Seymour

Authorised Signatory

X

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CERTIFICATE OF CALIBRATION

CERTIFICATE NO: SLM 29255

EQUIPMENT TESTED: Sound Level Meter

Manufacturer:	01dB		
Type No:	Cube	**Serial No:**	10745
Mic. Type:	GRAS 40CD	**Serial No:**	224073
Pre-Amp. Type:	PRE22N	**Serial No:**	11112
Filter Type:	1/3 Octave	**Test No:**	FILT 6364

Owner: AECOM Australia Pty Ltd
Level 8, 540 Wickham Street
Fortitude Valley QLD 4006

Tests Performed: IEC 61672-3:2013, IEC 1260:1995, & AS/NZS 4476:1997

Comments: All Test passed for Class 1.
(See over for details)

CONDITIONS OF TEST:

Ambient Pressure	1001	hPa ±1 hPa	**Date of Receipt :**	13/04/2021
Temperature	22	°C ±1° C	**Date of Calibration :**	14/04/2021
Relative Humidity	44	% ±5%	**Date of Issue :**	16/04/2021

Acu-Vib Test Procedure: AVP10 (SLM) & AVP06 (Filters)

CHECKED BY: ..... **AUTHORISED SIGNATURE:** .....

Hein Soe

Accredited for compliance with ISO/IEC 17025 - Calibration

Results of the tests, calibration and/or measurements included in this document are traceable to SI units through reference equipment that has been calibrated by the Australian National Measurement Institute or other NATA accredited laboratories demonstrating traceability.

This report applies only to the item identified in the report and may not be reproduced in part.

The uncertainties quoted are calculated in accordance with the methods of the ISO Guide to the Uncertainty of Measurement and quoted at a coverage factor of 2 with a confidence interval of approximately 95%.

NATA
WORLD RECOGNISED ACCREDITATION
Accredited Lab No. 9262
Acoustic and Vibration Measurements

Acu-Vib Electronics
CALIBRATIONS SALES RENTALS REPAIRS

Head Office & Calibration Laboratory
Unit 14, 22 Hudson Ave. Castle Hill NSW 2154
(02) 9680 8133
www.acu-vib.com.au

Ecotech

ACOEM Group

Doc ID: EMS 1404
Rev Date: 5/11/18

Tests report

TR-REP-10553.xls

ISSUED FOR :

AECOM AUSTRALIA PTY LTD

Level 8
540 Wickham Street
Fortitude Valley
4006 Queensland
Australia

Name and location of the laboratory of tests:
Ecotech - 1492 Ferntree Gully Road, Knoxfield VIC 3180- Australia

TESTED INSTRUMENT
Designation : Integrator Sound Level Meter

Manufacturer : 01dB

Type : CUBE

Serial number : 10835

Identification number : 90-3321
SWR : 24902

Date of issue : 13/04/2022

This report includes 10 pages

The measurements are performed according to the IEC 61672-3, Electroacoustics, - Sound level meters – Part 3: Periodic tests.

REPORT APPROVED BY

Leigh Seymour

Authorised Signatory

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CERTIFICATE OF CALIBRATION

CERTIFICATE NO: SLM 29252

EQUIPMENT TESTED: Sound Level Meter

Manufacturer:	01dB		
Type No:	Cube	**Serial No:**	11096
Mic. Type:	GRAS 40CD	**Serial No:**	260780
Pre-Amp. Type:	PRE22N	**Serial No:**	1610392
Filter Type:	1/3 Octave	**Test No:**	FILT 6370

Owner: AECOM Australia Pty Ltd
Level 8, 540 Wickham Street
Fortitude Valley QLD 4006

Tests Performed: IEC 61672-3:2013, IEC 1260:1995, & AS/NZS 4476:1997

Comments: All Test passed for Class 1.
(See over for details)

CONDITIONS OF TEST:

Ambient Pressure	1004	hPa ±1 hPa	**Date of Receipt :**	13/04/2021
Temperature	22	°C ±1° C	**Date of Calibration :**	14/04/2021
Relative Humidity	44	% ±5%	**Date of Issue :**	16/04/2021

Acu-Vib Test Procedure: AVP10 (SLM) & AVP06 (Filters)

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Hein Soe

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Head Office & Calibration Laboratory
Unit 14, 22 Hudson Ave. Castle Hill NSW 2154
(02) 9680 8133
www.acu-vib.com.au

CERTIFICATE OF CALIBRATION

CERTIFICATE NO: SLM 29253

EQUIPMENT TESTED: Sound Level Meter

Manufacturer:	01dB		
Type No:	Cube	**Serial No:**	11098
Mic. Type:	GRAS 40CD	**Serial No:**	260787
Pre-Amp. Type:	PRE22N	**Serial No:**	1610394
Filter Type:	1/3 Octave	**Test No:**	FILT 6365

Owner: AECOM Australia Pty Ltd
Level 8, 540 Wickham Street
Fortitude Valley QLD 4006

Tests Performed: IEC 61672-3:2013, IEC 1260:1995, & AS/NZS 4476:1997

Comments: All Test passed for Class 1.
(See over for details)

CONDITIONS OF TEST:

Ambient Pressure	1004	hPa ±1 hPa	**Date of Receipt :**	13/04/2021
Temperature	22	°C ±1° C	**Date of Calibration :**	14/04/2021
Relative Humidity	45	% ±5%	**Date of Issue :**	16/04/2021

Acu-Vib Test Procedure: AVP10 (SLM) & AVP06 (Filters)

CHECKED BY: ..... **AUTHORISED SIGNATURE:** .....

Hein Soe

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The uncertainties quoted are calculated in accordance with the methods of the ISO Guide to the Uncertainty of Measurement and quoted at a coverage factor of 2 with a confidence interval of approximately 95%.

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Acoustic and Vibration Measurements

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Head Office & Calibration Laboratory
Unit 14, 22 Hudson Ave. Castle Hill NSW 2154
(02) 9680 8133
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Ecotech

ACOEM Group

Doc ID: EMS 1404
Rev Date: 5/11/18

Tests report

TR-REP-10516.xls

ISSUED FOR :

AECOM AUSTRALIA PTY LTD

Level 8
540 Wickham Street
Fortitude Valley
4006 Queensland
Australia

Name and location of the laboratory of tests:
Ecotech - 1492 Ferntree Gully Road, Knoxfield VIC 3180- Australia

TESTED INSTRUMENT

Designation : Integrator Sound Level Meter

Manufacturer : 01dB

Type : CUBE

Serial number : 11100

Identification number : 90-3369
SWR : 024183

Date of issue : 16/09/2021

This report includes 10 pages

The measurements are performed according to the IEC 61672-3, Electroacoustics, - Sound level meters – Part 3: Periodic tests.

REPORT APPROVED BY

Leigh Seymour

Authorised Signatory

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Ecotech

ACOEM Group

Doc ID: EMS 1404
Rev Date: 5/11/18

Tests report

TR-REP-10528.xls

ISSUED FOR :

AECOM AUSTRALIA PTY LTD

Level 8
540 Wickham Street
Fortitude Valley
4006 Queensland
Australia

Name and location of the laboratory of tests:
Ecotech - 1492 Ferntree Gully Road, Knoxfield VIC 3180- Australia

TESTED INSTRUMENT
Designation : Integrator Sound Level Meter

Manufacturer : 01dB

Type : CUBE

Serial number : 11107

Identification number : 90-3373
SWR : 024410

Date of issue : 28/10/2021

This report includes 10 pages

The measurements are performed according to the IEC 61672-3, Electroacoustics, - Sound level meters – Part 3: Periodic tests.

REPORT APPROVED BY

Leigh Seymour

Authorised Signatory

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CERTIFICATE OF CALIBRATION

Certificate Number: 4988 **NATA Accreditation No: 20688**

Customer: **AECOM Australia Pty Ltd**
Level 8, 540 Wickham Street
Fortitude Valley, QLD 4006

Test Object:	**Manufacturer:**	**Model:**	**Serial No:**	**ID:**
Sound Level Meter	Brüel & Kjær	2250	3009335	4988
Microphone	Brüel & Kjær	4189	3005389	4988
Preamplifier	Brüel & Kjær	ZC0032	23892	4988
Calibrator	None	-	-	-
Connecting Cable	None	-	-	-

Information:

Test Configuration:	Microphone on Preamp
Instrument Manual:	B&K 2250 User Manual
Firmware Version:	4.7.5.226
Class of Instrument:	Class 1
Source of Correction Data:	Brüel & Kjær
Reference Level:	114 dB
Reference Level Range:	55 - 130 dB

Environmental Conditions:	**Pressure**	**Temperature**	**Relative Humidity**
Reference Conditions:	101.325 kPa	23.0 °C	50.0 % RH
Conditions Before Measurement:	101.01 kPa	24.3 °C	54.9 % RH
Conditions After Measurement:	100.89 kPa	23.4 °C	49.8 % RH

The laboratory environmental conditions remained within the acceptable limits as defined in IEC 61672.3 and IEC 61260 throughout the calibration test.

The measurements are performed according to the *IEC 61672 Sound level meters – Part 3: Periodic tests (2013)*, and *DIN 45657 Sound Level Meters – Requirements for Special Applications (2015).* Where applicable testing has also been completed in accordance with *IEC 61260 Electroacoustics – Octave-band and fractional-octave-band filters (2016)*.

This certificate only relates to the test object calibrated. This certificate shall only be reproduced in full with the permission of Calibre Technology.

Accredited for compliance with ISO/IEC 17025 - Calibration.
The results of the tests, calibrations and/or measurements included in this document are traceable to the International System of Units (SI) via international or Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

Date of Calibration: 09/02/22
Date of Issue: 10/02/22
Authorised Signatory:

Claire Richardson

Ecotech

ACOEM Group

Doc ID: EMS 1403
Rev Date: 5/11/18

Calibration Report

TR-REP-10504.xls

ISSUED FOR :

AECOM AUSTRALIA PTY LTD

Level 8
540 Wickham Street

4006 Fortitude Valley
Australia

Name and location of the laboratory of tests:
Ecotech - 1492 Ferntree Gully Road, Knoxfield VIC 3180- Australia

TESTED INSTRUMENT

Designation : Integrator Sound Level Meter

Manufacturer : 01dB

Type : DUO

Serial number : 12072

Identification number : 90-3368
SWR : 024143

Date of issue : 16/08/2021

This report includes 10 pages

The measurements are performed according to the IEC 61672-3, Electroacoustics, - Sound level meters – Part 3: Periodic tests.

REPORT APPROVED BY

Leigh Seymour

Authorised Signatory

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THE CALIBRE TECHNOLOGY
ACOUSTIC & VIBRATION CALIBRATION CENTRE

CERTIFICATE OF CALIBRATION

Certificate Number: **5098** **NATA Accreditation No: 20688**

Customer: **AECOM Australia Pty Ltd**
Level 8, 540 Wickham Street
Fortitude Valley, QLD 4006

Test Object:	**Calibrator**
Manufacturer:	**Quest**
Model:	**QC-20**
Serial No:	**QF3020010**
Class:	**1**
Adapter Make & Model:	**Quest O56-990**

Environmental Conditions:	**Pressure**	**Temperature**	**Relative Humidity**
Reference Conditions:	101.325 kPa	23.0 °C	50.0 % RH
Measurement Conditions:	101.393 kPa	24.2 °C	46.4 % RH

Measurement Results:	**Level**	**Frequency**	**THD + Noise**
1:	94.19 dB	994.14 Hz	1.40 %
2:	94.19 dB	994.08 Hz	1.30 %
3:	94.19 dB	994.14 Hz	1.20 %
Result (Average):	94.19 dB	994.12 Hz	1.30 %
Expanded Uncertainty:	0.06 dB	0.99 Hz	0.32 %
Degree of Freedom:	>100	>100	>100
Coverage Factor:	2.00	2.00	2.00
Pre-adjustment Level:	93.73 dB		

Measurement Results:	**Level**	**Frequency**	**THD + Noise**
1:	114.17 dB	994.14 Hz	1.40 %
2:	114.17 dB	994.08 Hz	1.30 %
3:	114.17 dB	994.14 Hz	1.20 %
Result (Average):	114.17 dB	994.12 Hz	1.30 %
Expanded Uncertainty:	0.06 dB	0.99 Hz	0.32 %
Degree of Freedom:	>100	>100	>100
Coverage Factor:	2.00	2.00	2.00
Pre-adjustment Level:	113.69 dB		

Measurement Results:	**Level**	**Frequency**	**THD + Noise**
1:	93.98 dB	249.37 Hz	1.10 %
2:	93.98 dB	249.36 Hz	1.20 %
3:	93.98 dB	249.35 Hz	1.10 %
Result (Average):	93.98 dB	249.36 Hz	1.13 %
Expanded Uncertainty:	0.06 dB	0.25 Hz	0.31 %
Degree of Freedom:	>100	>100	>100
Coverage Factor:	2.00	2.00	2.00

Measurement Results:	**Level**	**Frequency**	**THD + Noise**
1:	113.81 dB	249.38 Hz	0.50 %
2:	113.82 dB	249.38 Hz	0.50 %
3:	113.82 dB	249.38 Hz	0.50 %
Result (Average):	113.82 dB	249.38 Hz	0.50 %
Expanded Uncertainty:	0.06 dB	0.25 Hz	0.30 %
Degree of Freedom:	>100	>100	>100
Coverage Factor:	2.00	2.00	2.00

The stated level is relative to 20µPa and is valid at measurement conditions.
Tested when received – adjustments required to comply with tolerances in IEC 60942.

This certificate only relates to the test object calibrated. This certificate shall only be reproduced in full with the permission of Calibre Technology.

Accredited for Compliance with ISO/IEC 17025 - Calibration
The results of the tests, calibrations and/or measurements included in this document are traceable to the International System of Units (SI) via International and Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

Date of Calibration: 14/03/22
Date of Issue: 14/03/22
Authorised Signatory:

Claire Richardson

Ecotech

ACOEM Group

Doc ID: EMS 1403
Rev Date: 5/11/18

Calibration Report

TR-REP-10504.xls

ISSUED FOR :

AECOM AUSTRALIA PTY LTD

Level 8
540 Wickham Street

4006 Fortitude Valley
Australia

Name and location of the laboratory of tests:
Ecotech - 1492 Ferntree Gully Road, Knoxfield VIC 3180- Australia

TESTED INSTRUMENT

Designation : Integrator Sound Level Meter

Manufacturer : 01dB

Type : DUO

Serial number : 12072

Identification number : 90-3368
SWR : 024143

Date of issue : 16/08/2021

This report includes 10 pages

The measurements are performed according to the IEC 61672-3, Electroacoustics, - Sound level meters – Part 3: Periodic tests.

REPORT APPROVED BY

Leigh Seymour

Authorised Signatory

X

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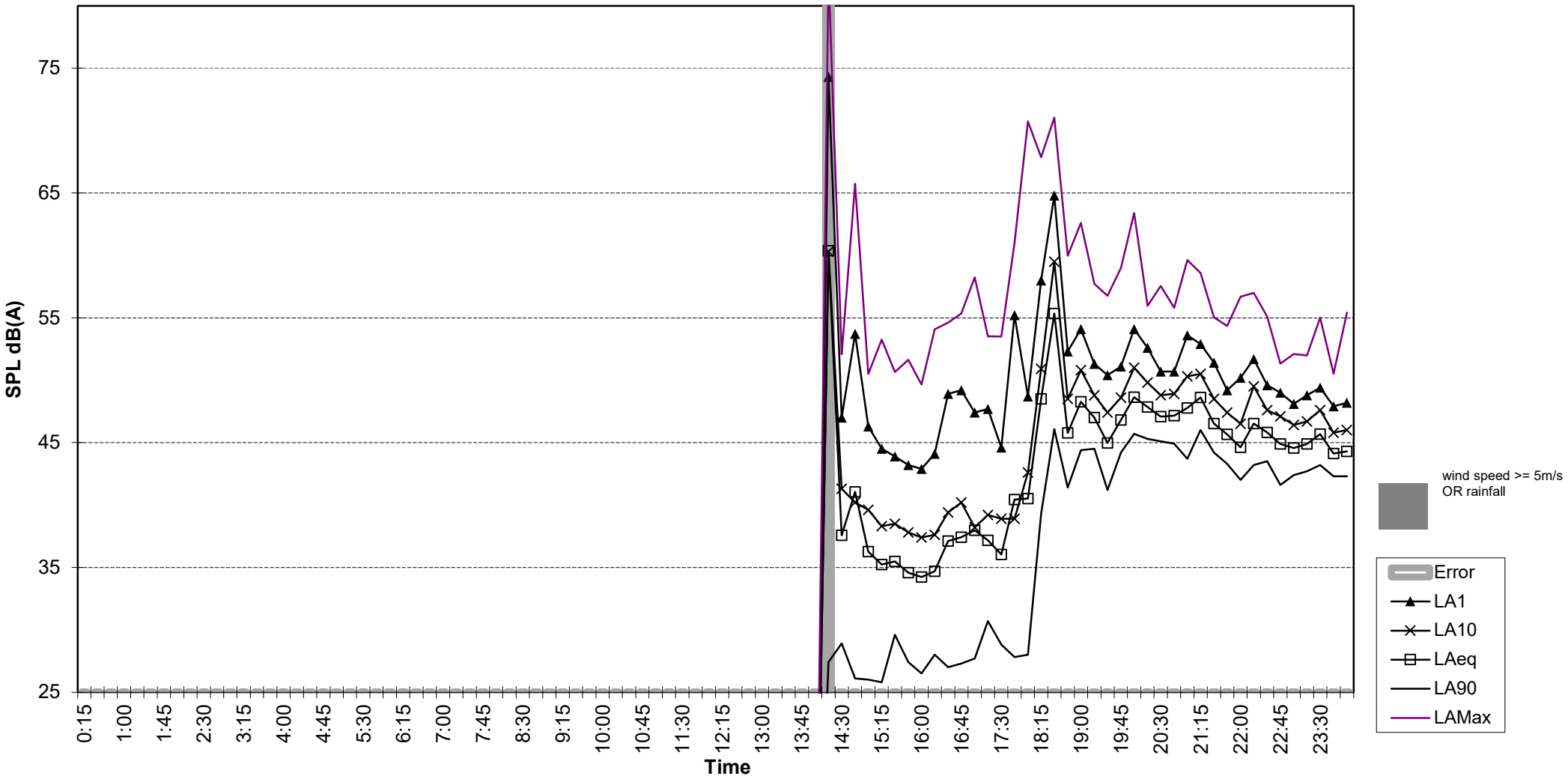
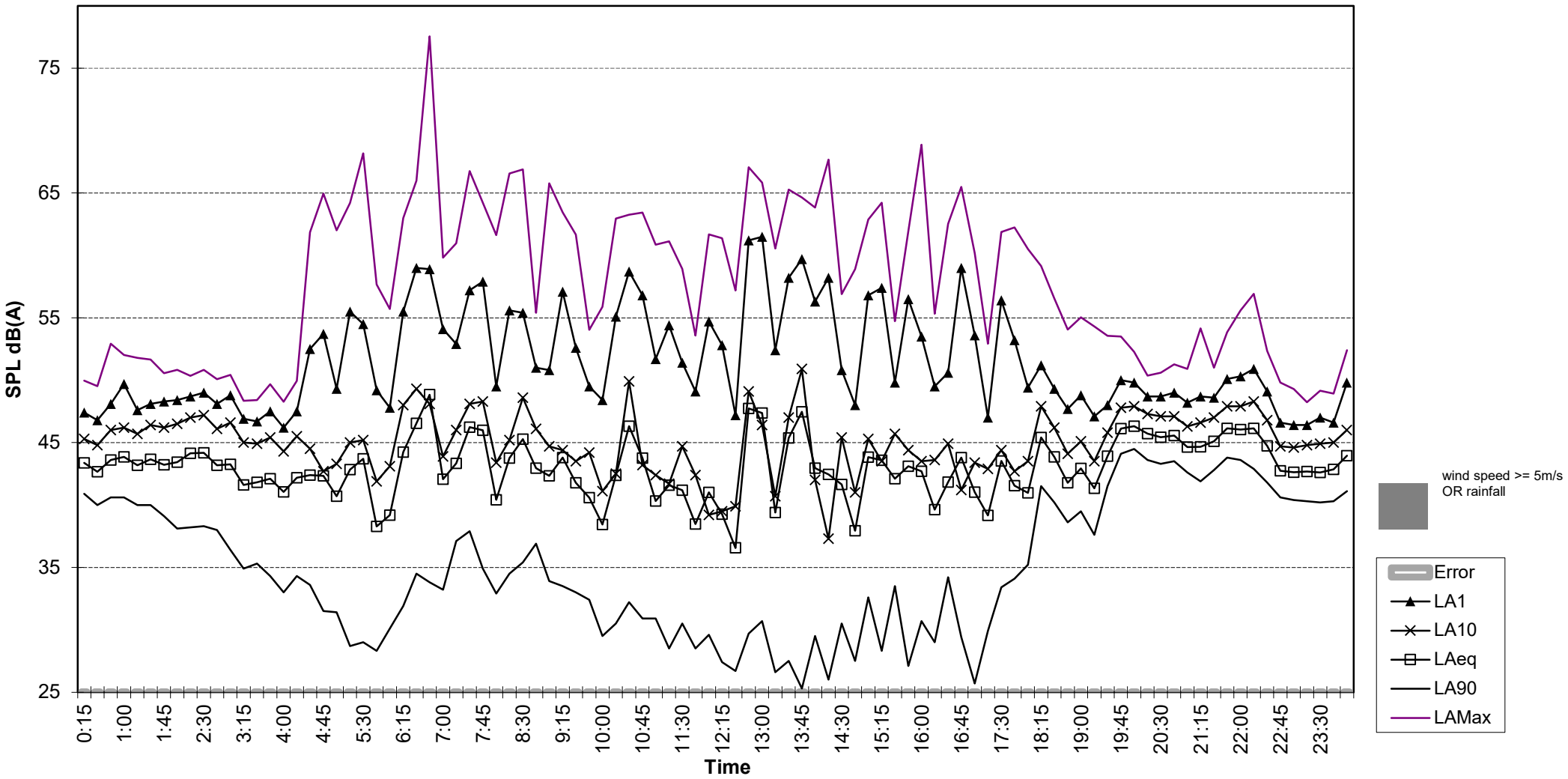
BP01 - Borrow Pit Site 12

Lot 111 Millmerran Inglewood Rd, Clontarf QLD 4357
Measured Noise Levels - Tuesday 10/01/2023

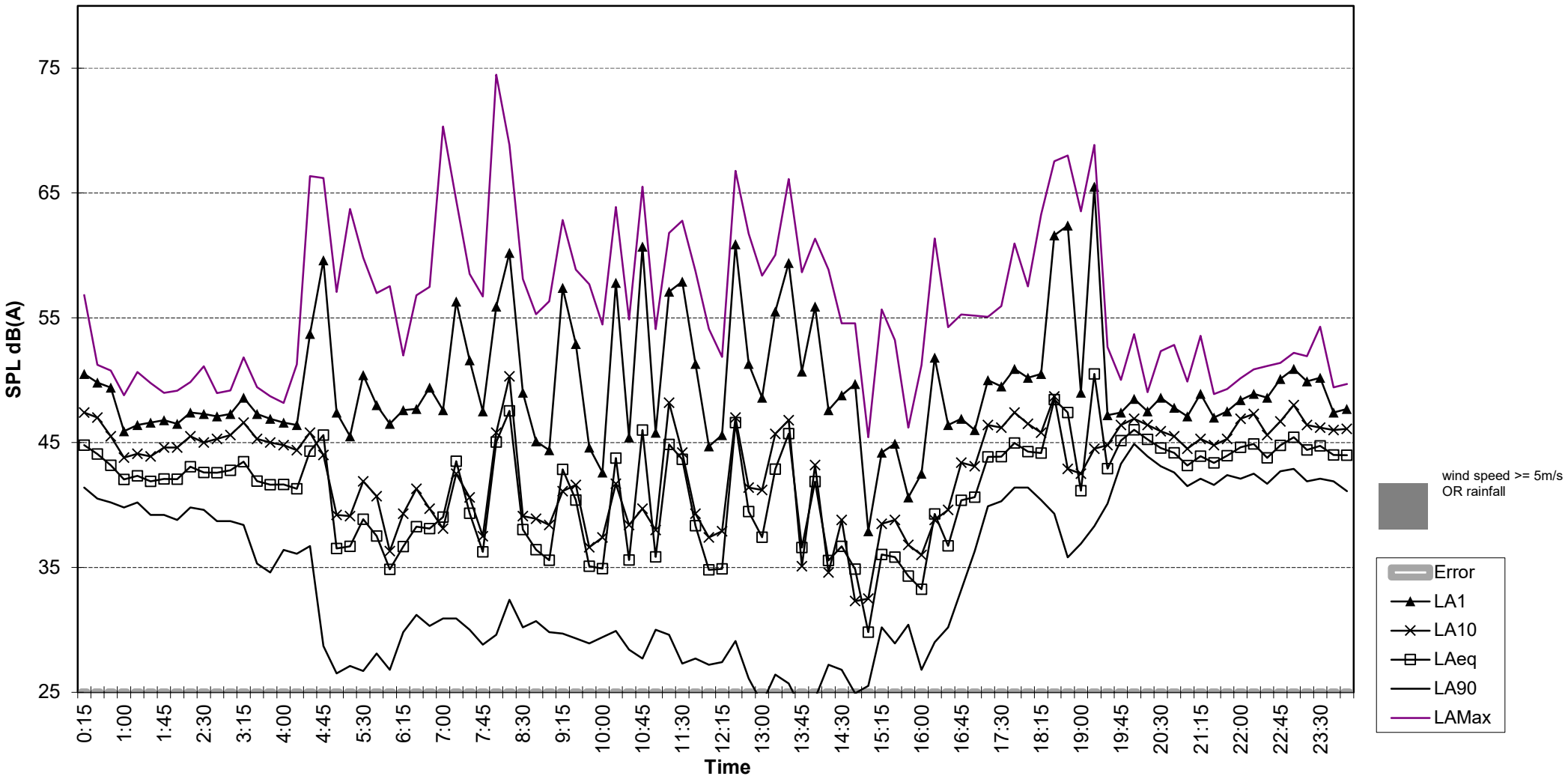
Larson Davis 831 - Serial number 0001639



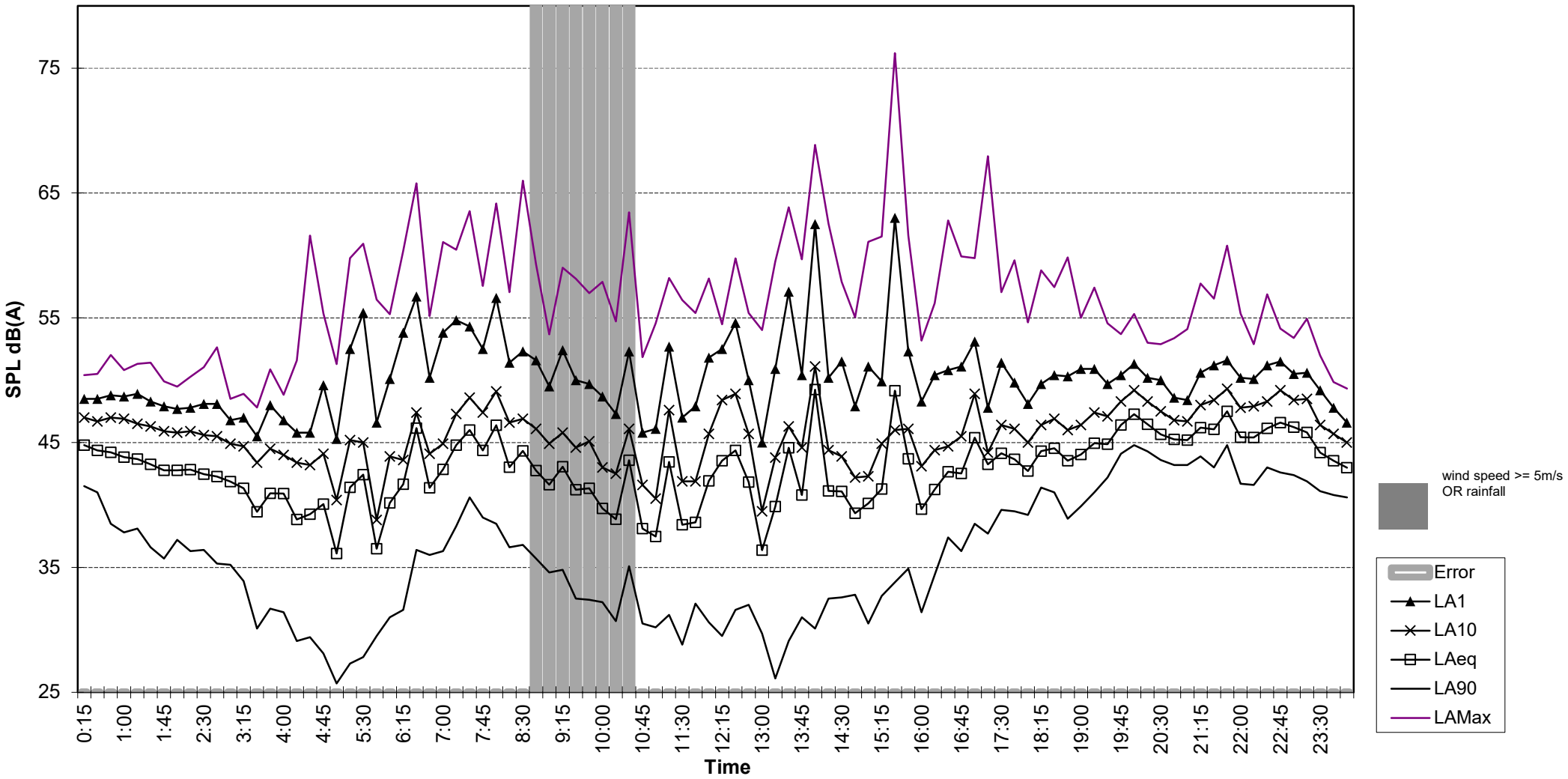
Lot 111 Millmerran Inglewood Rd, Clontarf QLD 4357
Measured Noise Levels - Wednesday 11/01/2023



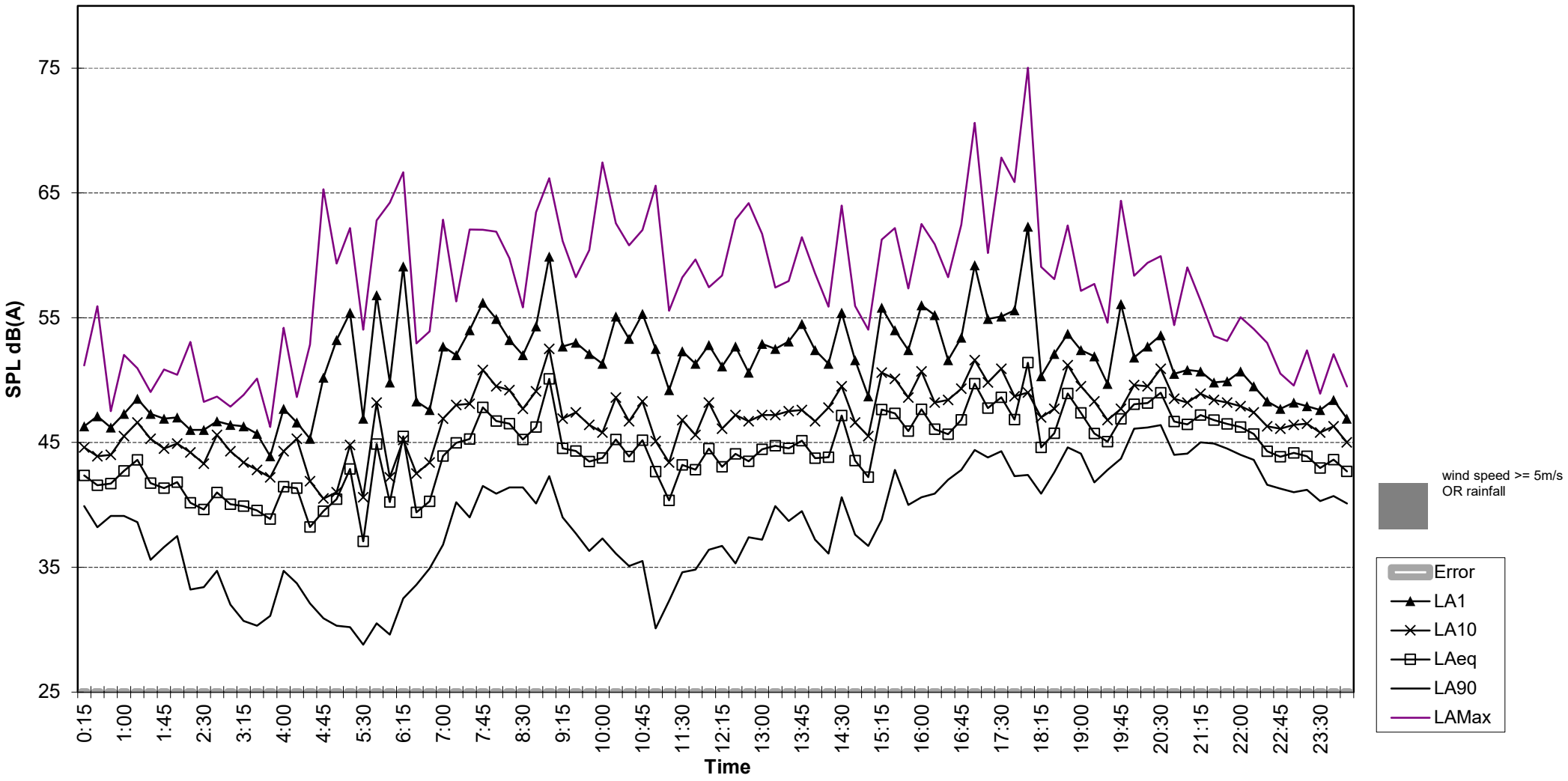
Lot 111 Millmerran Inglewood Rd, Clontarf QLD 4357
Measured Noise Levels - Thursday 12/01/2023



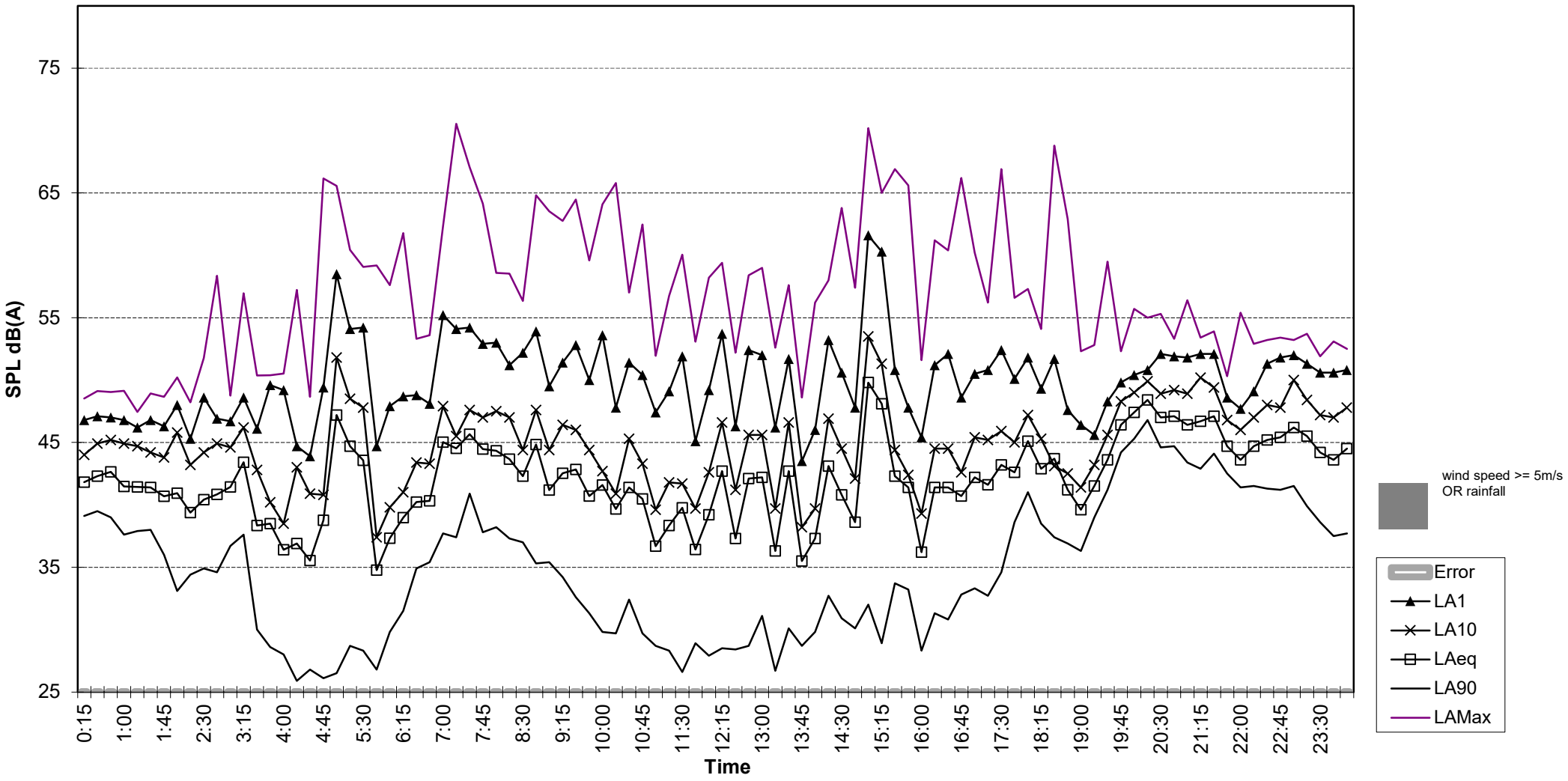
Lot 111 Millmerran Inglewood Rd, Clontarf QLD 4357
Measured Noise Levels - Friday 13/01/2023



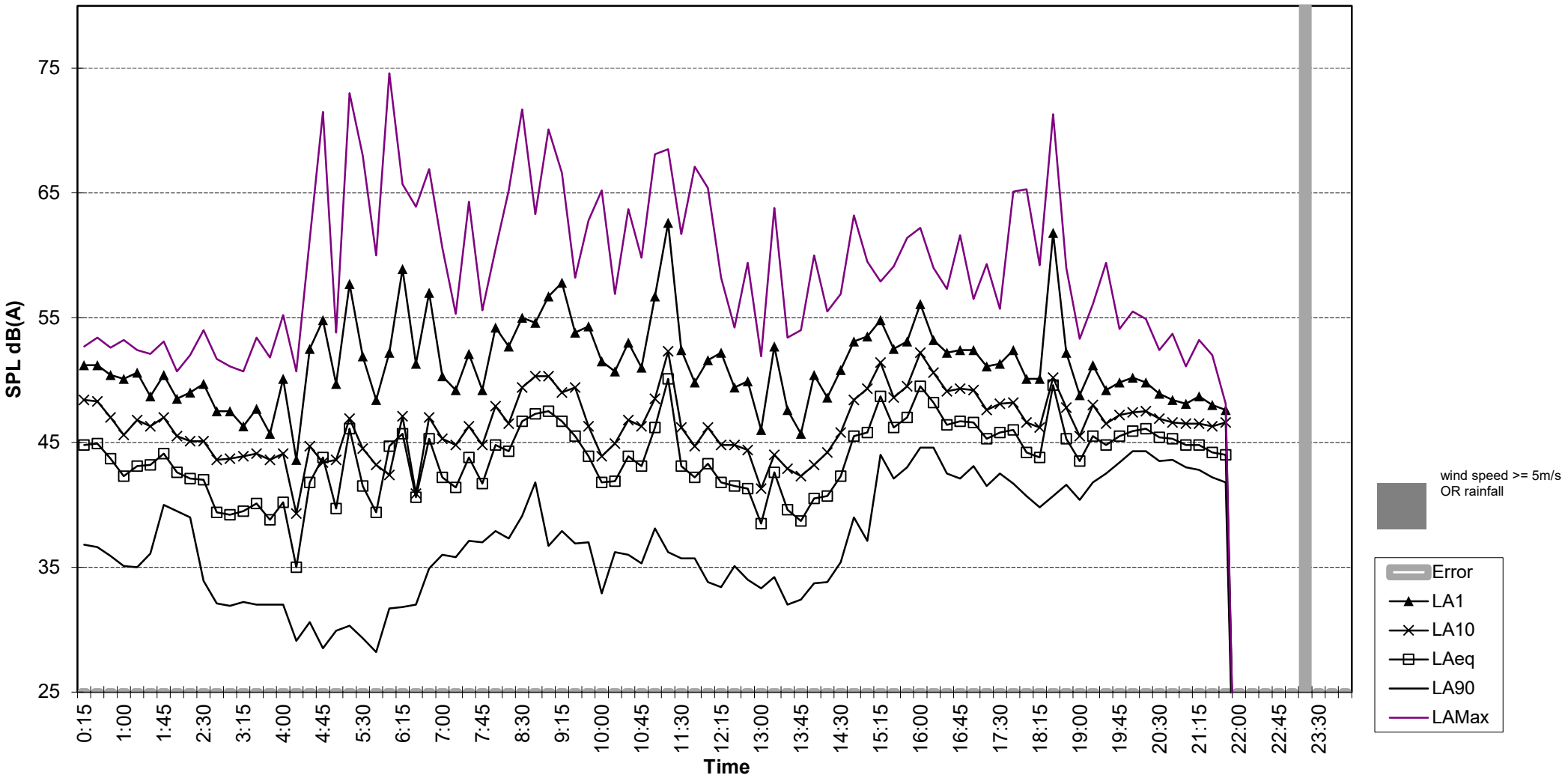
Lot 111 Millmerran Inglewood Rd, Clontarf QLD 4357
Measured Noise Levels - Saturday 14/01/2023



Lot 111 Millmerran Inglewood Rd, Clontarf QLD 4357
Measured Noise Levels - Sunday 15/01/2023

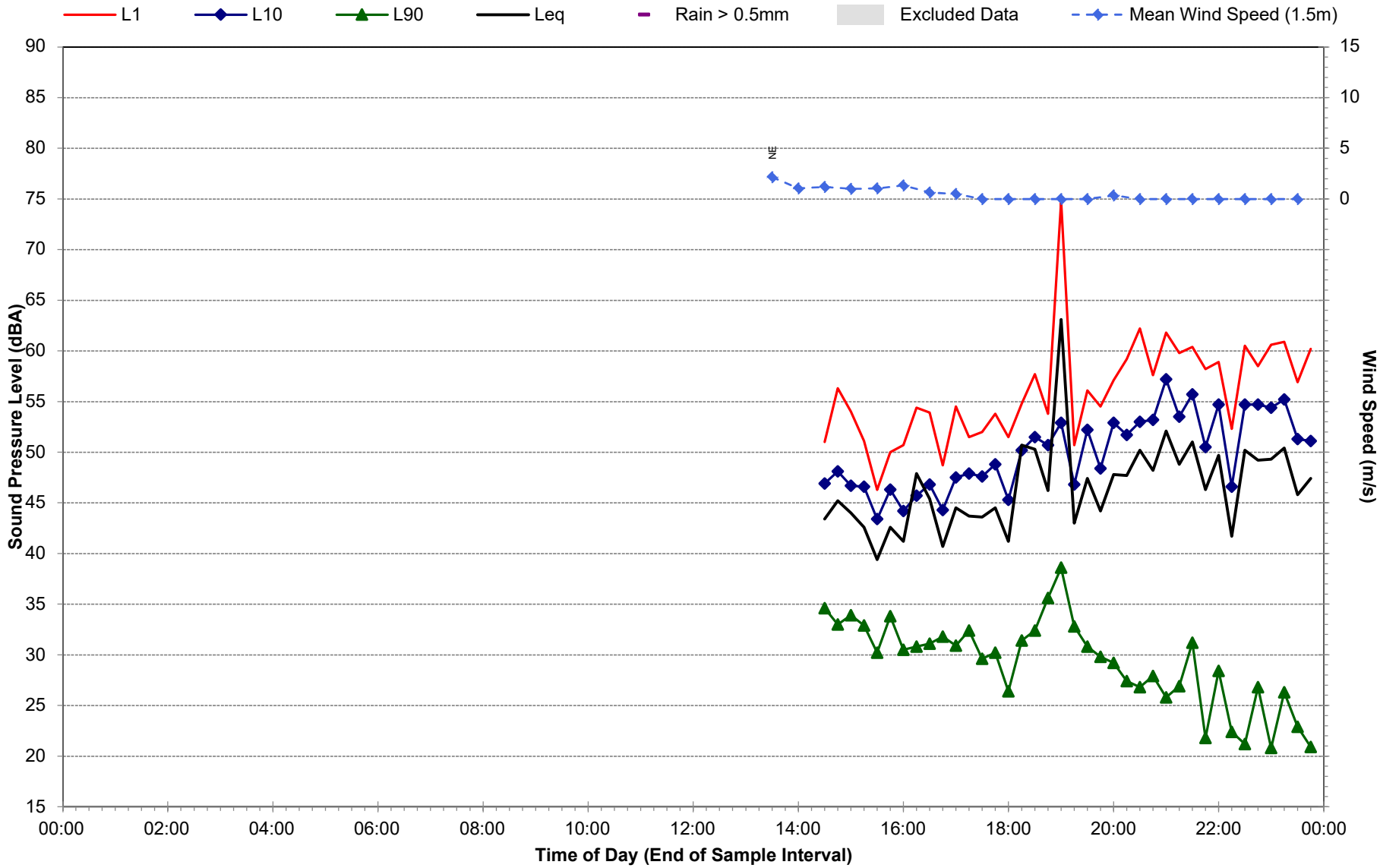


Lot 111 Millmerran Inglewood Rd, Clontarf QLD 4357
Measured Noise Levels - Monday 16/01/2023



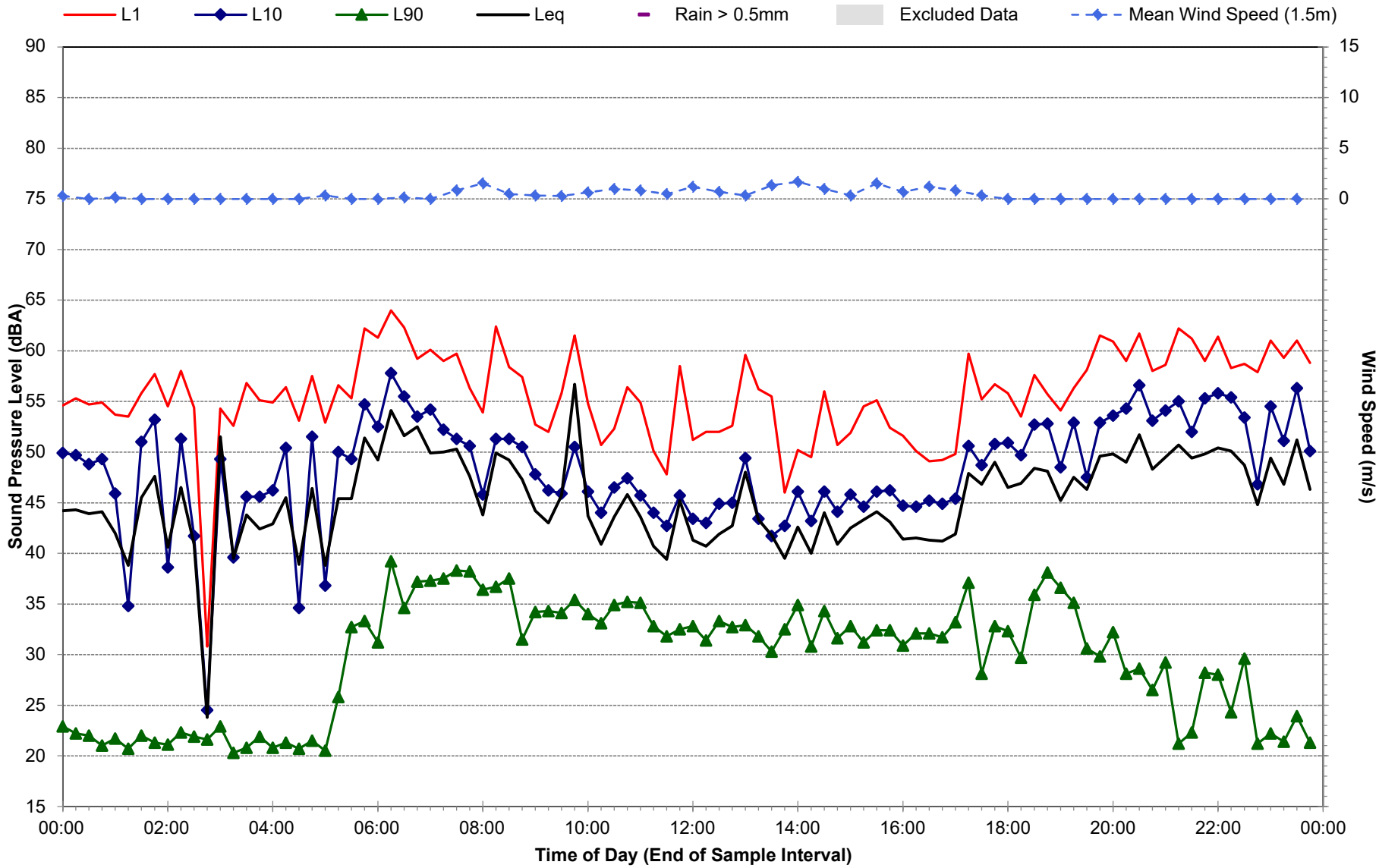
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Tuesday, 19 September 2023



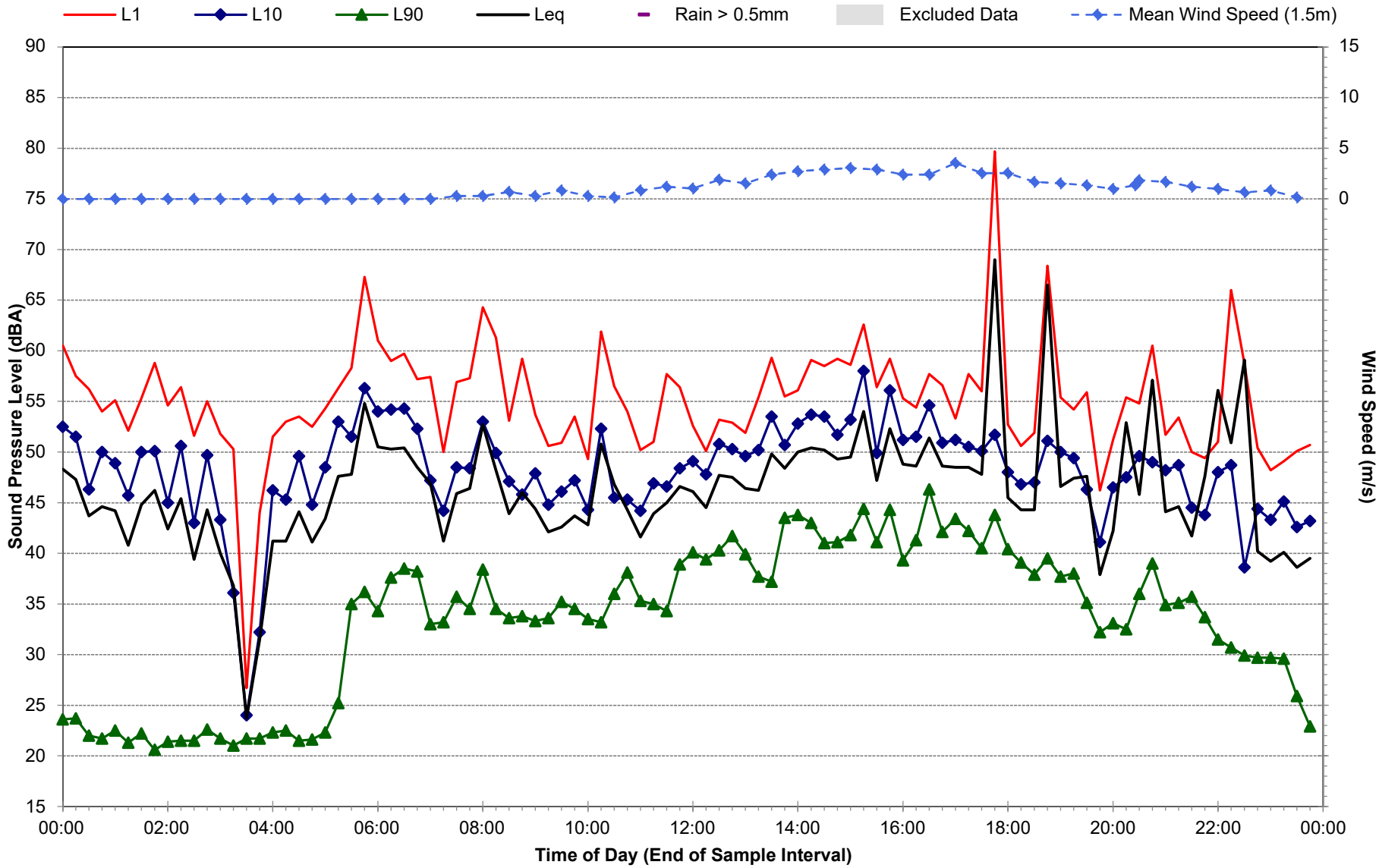
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Wednesday, 20 September 2023



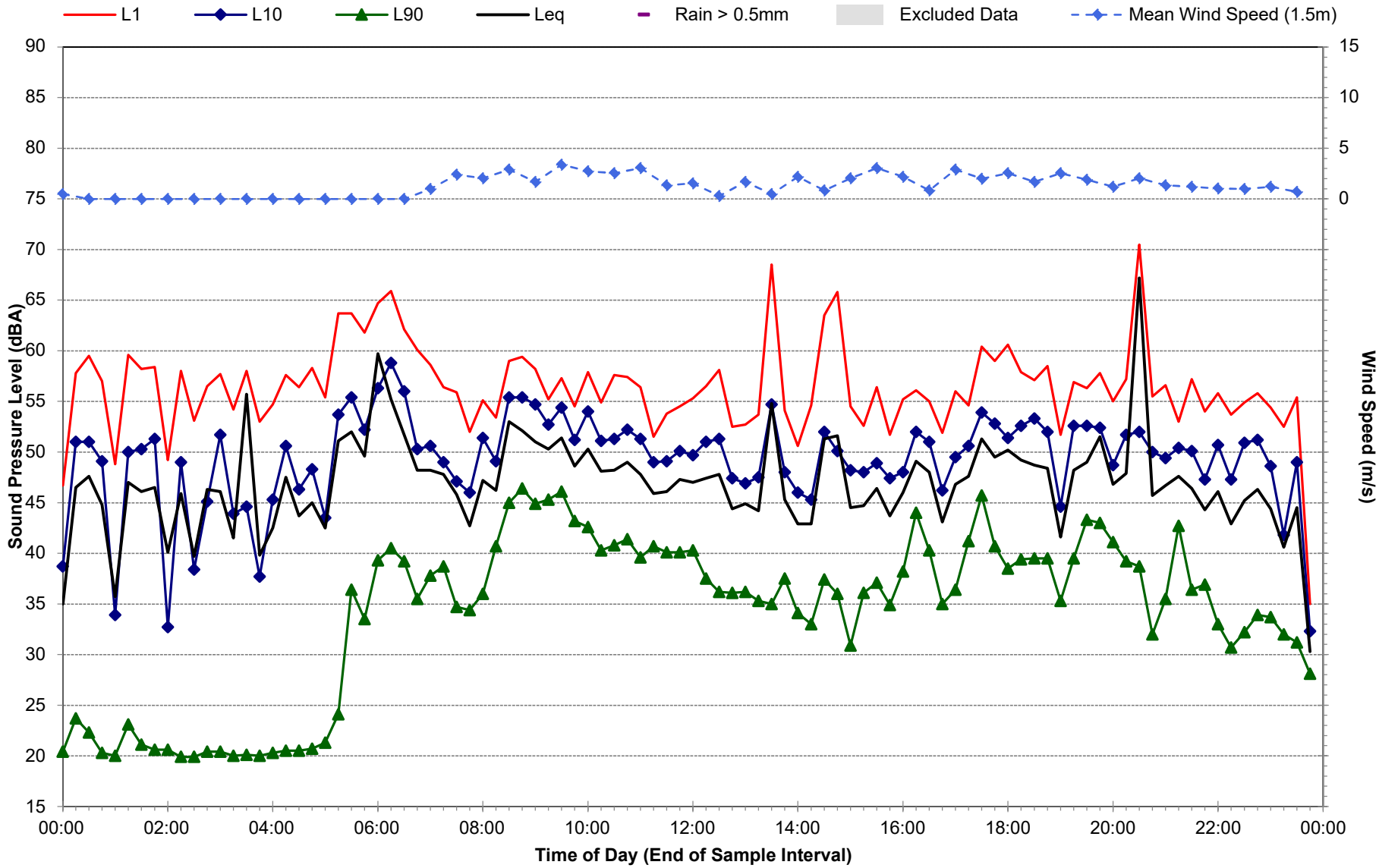
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Thursday, 21 September 2023



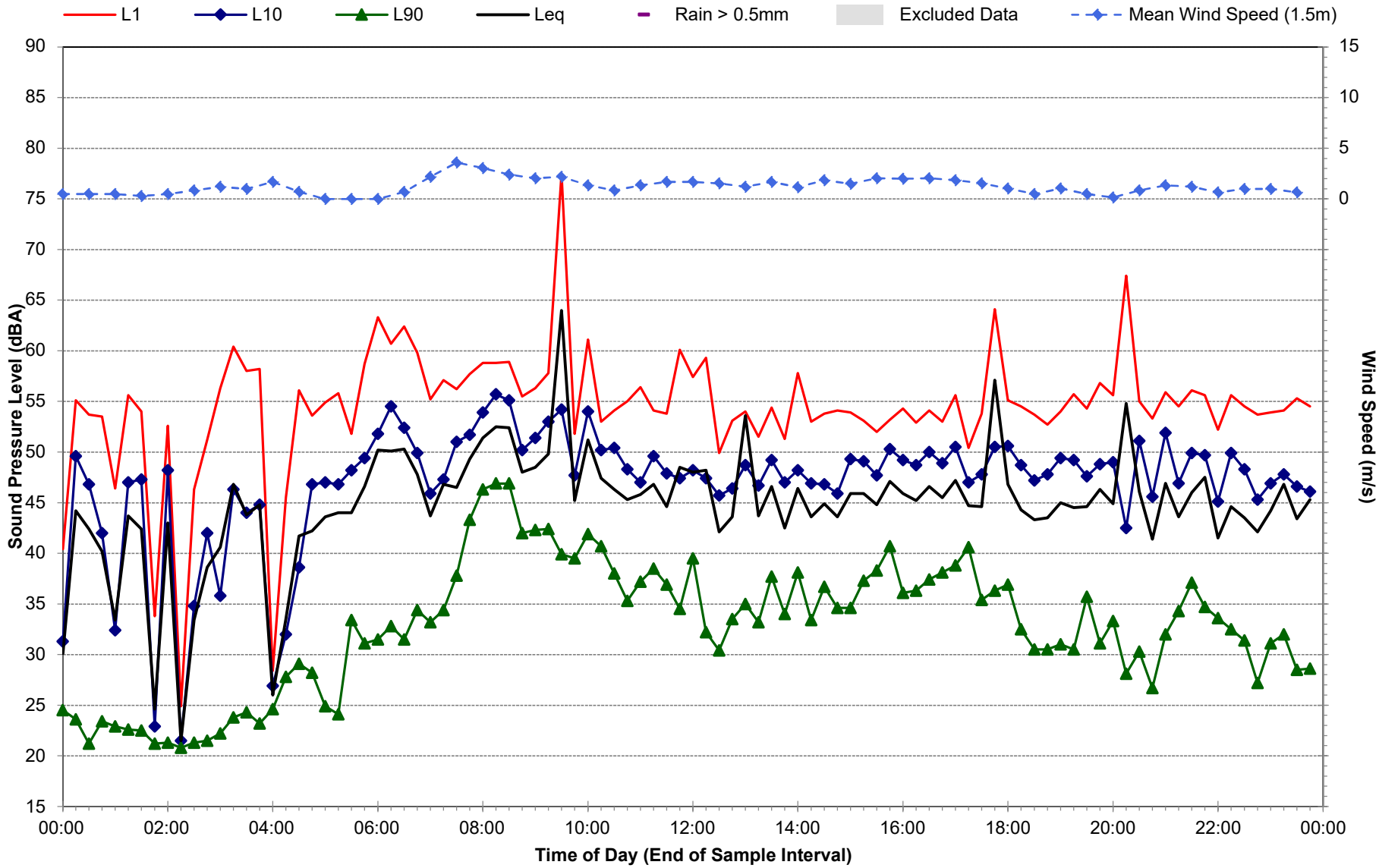
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Friday, 22 September 2023



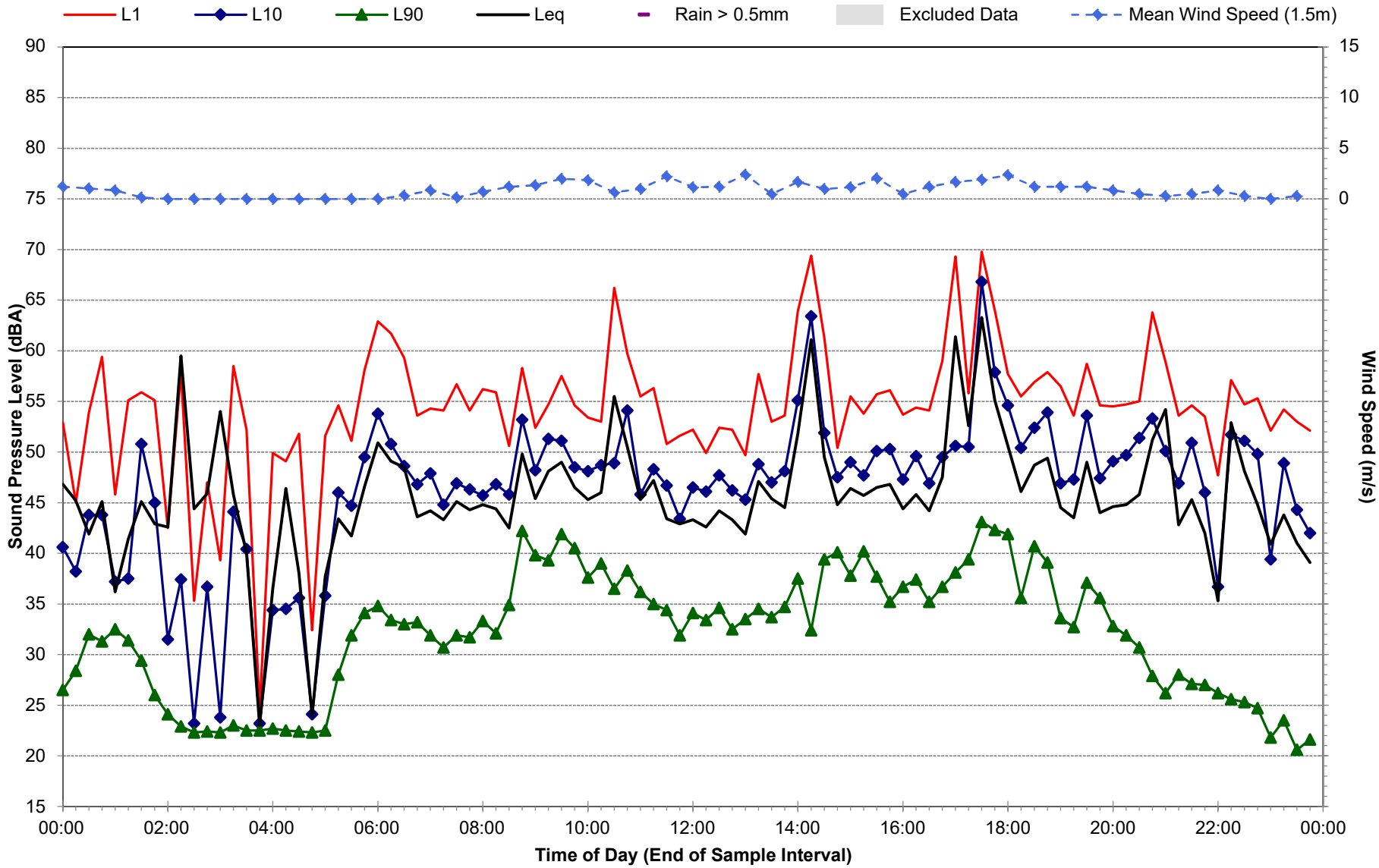
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Saturday, 23 September 2023



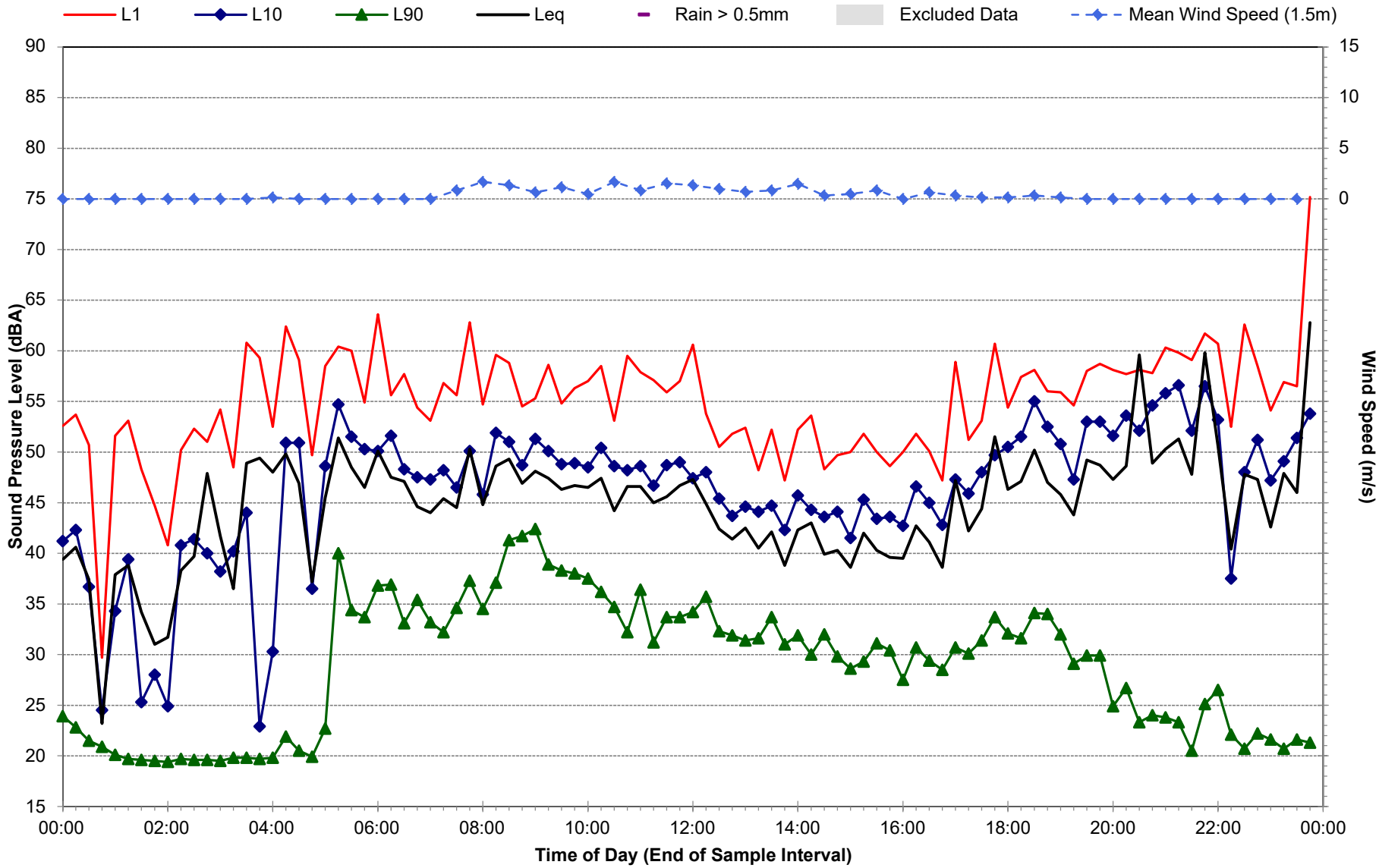
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Sunday, 24 September 2023



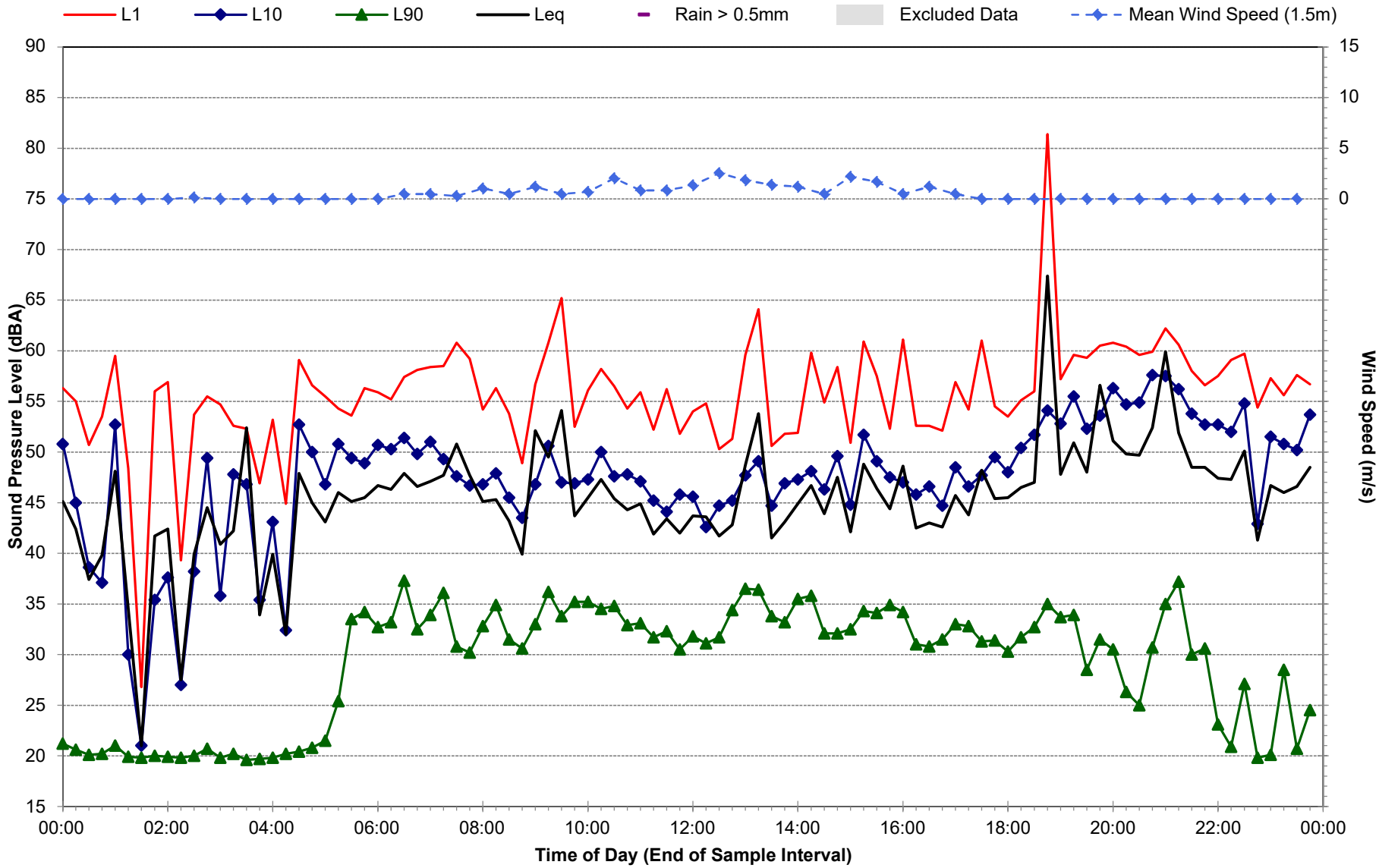
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Monday, 25 September 2023



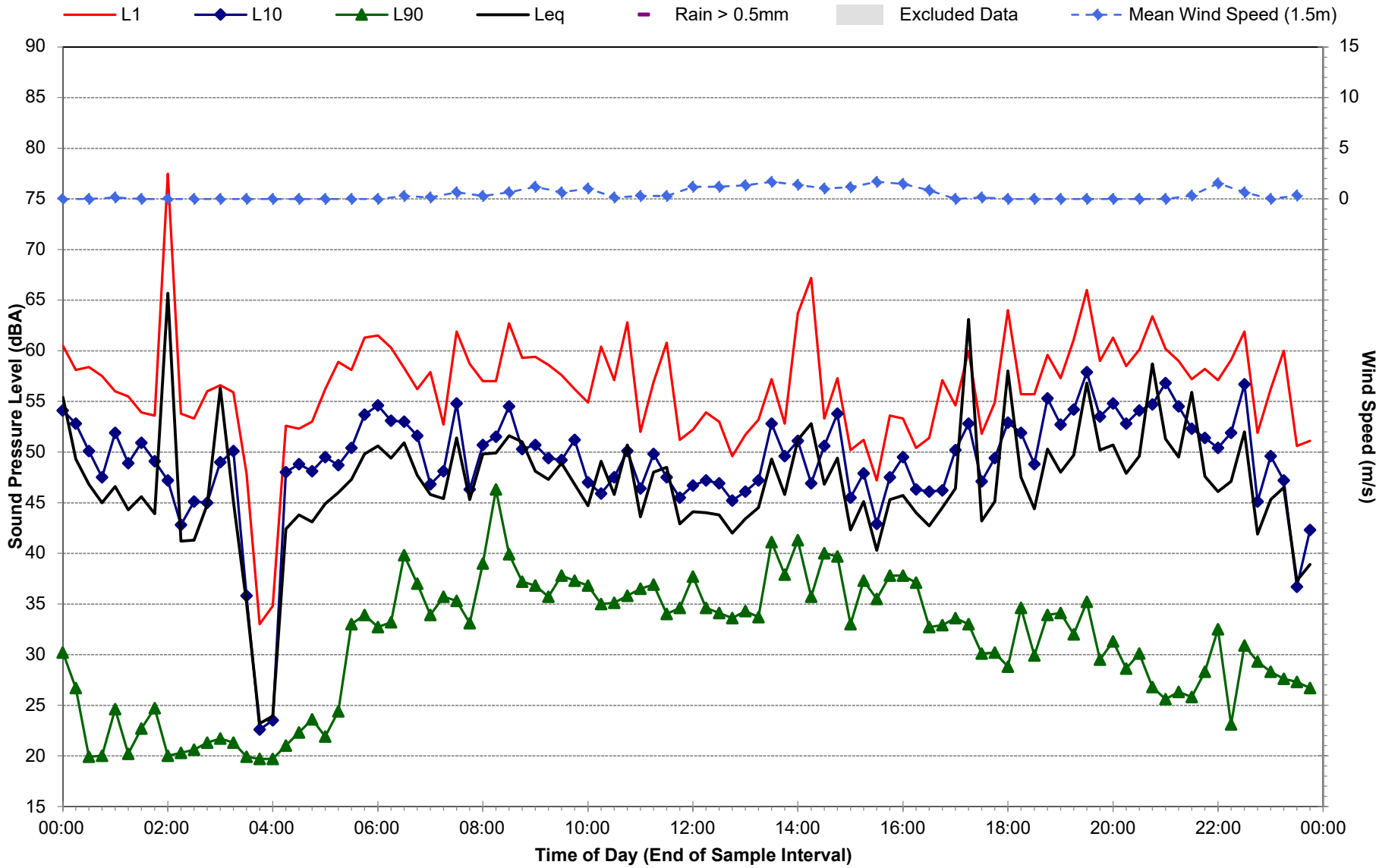
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Tuesday, 26 September 2023



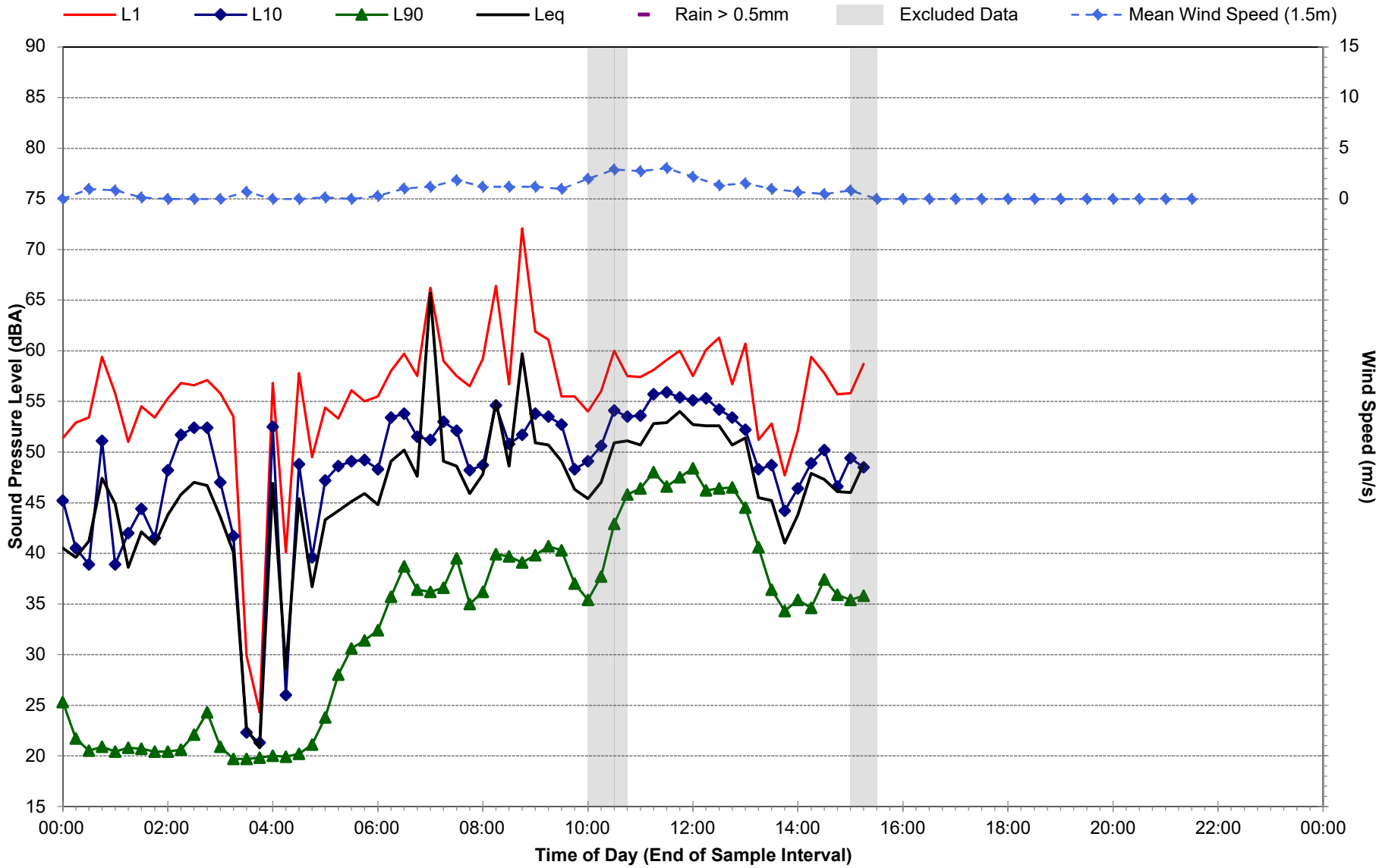
Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Wednesday, 27 September 2023



Statistical Ambient Noise Levels

W01 - 26076 Cunningham Highway, Whetstone - Thursday, 28 September 2023



APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix C Predicted construction noise levels

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Inland Rail is a subsidiary of
Australian Rail Track Corporation

INLAND RAIL

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Accommodation	254576	45	50	65	58	27	<20	<20	Refer to Report Section 6.1.1.5	Refer to Report Section 6.1.1.6	77	73	78	<20
Accommodation	261687	45	50	65	50	<20	<20	34			65	62	67	<20
Accommodation	261703	45	50	65	42	<20	<20	34			66	62	67	<20
Accommodation	316943	45	50	65	36	<20	<20	<20			38	34	39	<20
Accommodation	317028	45	50	65	32	<20	<20	<20			36	33	38	<20
Accommodation	321058	45	50	65	40	<20	<20	<20			39	35	41	23
Community	254564		52		62	28	<20	<20			77	73	78	<20
Community	254592		52		53	27	<20	<20			77	73	78	<20
Community	260123		52		64	<20	<20	24			76	72	78	<20
Community	261738		52		60	<20	<20	41			57	53	58	<20
Community	262035		52		52	<20	<20	32			60	56	61	<20
Community	318994		52		35	<20	<20	<20			44	40	45	38
Community	319762		52		42	<20	<20	<20			47	43	48	44
Community	320847		52		41	<20	<20	<20			40	36	41	27
Community	320888		52		39	<20	<20	<20			38	34	39	24
Community	321378		52		39	<20	<20	<20			37	33	38	25
Community	321739		52		32	<20	<20	<20			39	35	41	34
Community	321765		52		39	<20	<20	<20			38	34	39	26
Community	321787		52		39	<20	<20	<20			36	33	38	23
Community	322109		52		38	<20	<20	<20			36	33	38	24
Community	322541		52		36	<20	<20	<20			33	30	34	23
Community	322790		52		65	<20	<20	<20			67	63	68	27
Community	323481		52		39	<20	<20	<20			38	34	39	24
Community	323677		52		38	<20	<20	<20			36	32	37	25
Community	323764		52		38	<20	<20	<20			38	34	40	27
Community	323776		52		38	<20	<20	<20			36	32	37	24
Community	323861		52		41	<20	<20	<20			41	37	42	25
Community	323863		52		43	<20	<20	<20			42	38	43	25
Community	2008434		52		42	<20	<20	<20			41	37	42	23
Educational	254515		71		50	26	<20	<20			60	56	61	<20
Educational	254527		71		50	26	<20	<20			61	57	62	<20
Educational	261749		73		51	<20	<20	33			69	66	71	<20
Educational	261795		73		52	<20	<20	32			69	65	71	<20
Educational	261821		73		50	<20	<20	33			66	62	68	<20
Educational	261823		73		50	<20	<20	32			66	62	67	<20
Educational	261831		73		48	<20	<20	31			64	61	66	<20
Educational	320693		77		35	<20	<20	<20			40	36	41	38
Educational	320726		77		36	<20	<20	<20			41	37	42	39
Educational	320741		77		33	<20	<20	<20			43	39	44	41
Educational	320763		77		35	<20	<20	<20			40	36	41	38
Educational	320848		52		39	<20	<20	<20			37	33	38	25
Educational	320893		52		37	<20	<20	<20			35	32	37	24
Educational	320894		52		39	<20	<20	<20			37	33	38	25
Educational	320958		52		32	<20	<20	<20			34	31	36	23
Educational	321057		81		40	<20	<20	<20			42	38	43	31
Educational	321060		81		43	<20	<20	<20			42	38	43	32
Educational	321289		81		40	<20	<20	<20			42	38	43	35
Educational	321588		81		43	<20	<20	<20			43	39	44	33
Educational	321643		77		38	<20	<20	<20			43	39	44	42

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Educational	321670		77		36	<20	<20	<20			41	37	42	39
Educational	321774		52		38	<20	<20	<20			38	34	39	26
Educational	321913		52		35	<20	<20	<20			36	32	38	23
Educational	322099		81		32	<20	<20	<20			32	29	34	25
Educational	322113		52		33	<20	<20	<20			36	33	38	24
Educational	322378		52		35	<20	<20	<20			34	31	36	24
Educational	322379		52		35	<20	<20	<20			35	31	36	24
Educational	322428		52		37	<20	<20	<20			35	31	36	25
Educational	322576		81		39	<20	<20	<20			38	35	40	30
Educational	322664		81		38	<20	<20	<20			37	33	38	28
Educational	322813		77		37	<20	<20	<20			43	39	44	40
Educational	322848		52		39	<20	<20	<20			38	34	39	24
Educational	323514		52		37	<20	<20	<20			36	32	37	24
Educational	323537		81		34	<20	<20	<20			36	33	38	29
Educational	323889		81		43	<20	<20	<20			42	38	44	32
Educational	323890		81		43	<20	<20	<20			42	38	43	32
Educational	2008433		52		37	<20	<20	<20			38	34	39	28
Emergency Services	254513		52		47	23	<20	<20			58	54	60	<20
Emergency Services	260154		52		62	<20	<20	27			78	74	79	<20
Emergency Services	321427		52		43	<20	<20	<20			47	43	48	26
Emergency Services	321668		52		36	<20	<20	<20			41	37	42	38
Emergency Services	322165		52		44	<20	<20	<20			50	46	51	27
Emergency Services	322315		52		41	<20	<20	<20			39	35	40	29
Emergency Services	322474		52		44	<20	<20	<20			51	46	52	33
Emergency Services	322658		52		41	<20	<20	<20			39	35	41	25
Emergency Services	323479		52		40	<20	<20	<20			38	34	39	25
Emergency Services	323807		52		46	<20	<20	<20			50	46	51	24
Emergency Services	323874		52		40	<20	<20	<20			38	34	40	24
Office	254574			65	64	28	<20	<20			80	76	81	<20
Office	254852			65	42	<20	<20	<20			43	39	44	30
Office	254858			65	40	<20	<20	<20			40	36	41	28
Office	256773			65	39	<20	<20	37			44	40	45	<20
Office	256806			65	38	<20	<20	33			40	36	41	<20
Office	261287			65	64	<20	<20	53			74	71	76	<20
Office	261321			65	61	<20	<20	50			72	69	74	<20
Office	261639			65	50	<20	<20	35			66	62	67	<20
Office	261890			65	56	<20	<20	33			60	56	61	<20
Office	320887			65	38	<20	<20	<20			38	34	39	23
Office	320979			65	41	<20	<20	<20			45	41	46	27
Office	320981			65	45	<20	<20	<20			46	42	47	26
Office	321251			65	41	<20	<20	<20			39	35	41	24
Office	321428			65	39	<20	<20	<20			38	34	39	27
Office	321459			65	41	<20	<20	<20			39	35	41	22
Office	321461			65	37	<20	<20	<20			39	35	41	34
Office	321463			65	41	<20	<20	<20			40	36	42	26
Office	321619			65	41	<20	<20	<20			44	40	45	26
Office	321620			65	39	<20	<20	<20			36	33	38	27
Office	321812			65	40	<20	<20	<20			41	37	42	26
Office	321816			65	41	<20	<20	<20			45	41	47	28

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Office	321939			65	41	<20	<20	<20			44	40	46	24
Office	322010			65	40	<20	<20	<20			39	35	40	24
Office	322240			65	39	<20	<20	<20			41	37	42	23
Office	322427			65	44	<20	<20	<20			41	38	43	29
Office	322441			65	41	<20	<20	<20			44	40	45	25
Office	322442			65	40	<20	<20	<20			42	38	43	25
Office	322504			65	46	<20	<20	<20			49	45	50	31
Office	322505			65	42	<20	<20	<20			45	41	46	26
Office	322718			65	41	<20	<20	<20			44	40	45	24
Office	322867			65	38	<20	<20	<20			38	34	39	24
Office	323410			65	41	<20	<20	<20			40	36	41	27
Office	323422			65	41	<20	<20	<20			42	39	44	26
Office	323427			65	42	<20	<20	<20			46	42	47	30
Office	323431			65	40	<20	<20	<20			40	36	41	24
Office	323434			65	54	<20	<20	<20			57	53	58	24
Office	323633			65	41	<20	<20	<20			39	36	41	26
Office	323634			65	41	<20	<20	<20			39	35	40	26
Office	323657			65	46	<20	<20	<20			51	47	53	27
Office	323660			65	40	<20	<20	<20			37	33	38	29
Parkland	261544			65	46	<20	<20	37			70	67	72	<20
Parkland	321558			65	41	<20	<20	<20			39	35	40	25
Parkland	322402			65	41	<20	<20	<20			44	40	45	23
Parkland	322480			65	41	<20	<20	<20			40	36	41	25
Parkland	322939			65	40	<20	<20	<20			43	40	45	23
Parkland	2008440			65	37	<20	<20	<20			36	33	38	24
Parkland	2008441			65	35	<20	<20	<20			32	29	34	23
Parkland	2008442			65	38	<20	<20	<20			36	33	38	22
Parkland	2008443			65	35	<20	<20	<20			35	31	36	22
Parkland	2008444			65	37	<20	<20	<20			34	31	36	23
Parkland	2008445			65	58	<20	<20	<20			58	54	59	27
Parkland	2008446			65	51	<20	<20	37			72	69	74	<20
Parkland	2008447			65	49	<20	<20	<20			57	53	58	<20
Parkland	2008448			65	42	22	<20	<20			52	48	53	<20
Parkland	2008449			65	39	<20	<20	<20			36	32	37	<20
Parkland	2008450			65	40	<20	<20	<20			37	33	38	28
Parkland	2008451			65	36	<20	<20	<20			39	36	41	38
Residential	254161	45	50	65	28	<20	<20	<20			72	68	73	<20
Residential	254164	45	50	65	64	<20	<20	<20			78	75	80	<20
Residential	254168	45	50	65	75	<20	<20	<20			77	73	78	<20
Residential	254170	45	50	65	73	<20	<20	<20			74	70	75	<20
Residential	254179	45	50	65	68	<20	<20	<20			69	65	70	<20
Residential	254181	45	50	65	57	<20	<20	<20			67	63	69	<20
Residential	254188	45	50	65	48	<20	<20	<20			56	52	57	<20
Residential	254193	45	50	65	34	<20	<20	<20			56	52	57	<20
Residential	254219	45	50	65	33	<20	<20	<20			52	48	53	<20
Residential	254221	45	50	65	44	<20	<20	<20			50	46	51	<20
Residential	254250	45	50	65	50	<20	<20	<20			88	84	89	<20
Residential	254255	45	50	65	48	<20	<20	<20			59	56	61	<20
Residential	254261	45	50	65	31	<20	<20	<20			38	34	39	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	254276	45	50	65	48	21	<20	<20			67	63	68	<20
Residential	254282	45	50	65	46	24	<20	<20			48	44	50	<20
Residential	254290	45	50	65	44	22	<20	<20			50	46	51	<20
Residential	254295	45	50	65	33	<20	<20	<20			36	33	37	<20
Residential	254300	45	50	65	45	26	<20	<20			52	48	53	<20
Residential	254307	45	50	65	43	22	<20	<20			50	45	51	<20
Residential	254308	45	50	65	46	26	<20	<20			52	48	53	<20
Residential	254312	45	50	65	43	22	<20	<20			48	44	49	<20
Residential	254313	45	50	65	48	25	<20	<20			52	48	53	<20
Residential	254314	45	50	65	42	22	<20	<20			49	45	50	<20
Residential	254315	45	50	65	48	25	<20	<20			52	48	53	<20
Residential	254318	45	50	65	32	22	<20	<20			44	40	45	<20
Residential	254319	45	50	65	50	25	<20	<20			54	49	55	<20
Residential	254320	45	50	65	49	26	<20	<20			53	49	54	<20
Residential	254324	45	50	65	49	25	<20	<20			53	49	54	<20
Residential	254325	45	50	65	36	<20	<20	<20			37	34	39	<20
Residential	254332	45	50	65	49	24	<20	<20			53	49	55	<20
Residential	254336	45	50	65	36	<20	<20	<20			37	34	38	<20
Residential	254340	45	50	65	53	27	<20	<20			55	51	57	<20
Residential	254344	45	50	65	52	26	<20	<20			55	51	56	<20
Residential	254346	45	50	65	51	27	<20	<20			55	51	56	<20
Residential	254347	45	50	65	36	29	<20	<20			68	64	69	<20
Residential	254348	45	50	65	53	27	<20	<20			55	51	56	<20
Residential	254354	45	50	65	48	23	<20	<20			52	48	53	<20
Residential	254357	45	50	65	45	23	<20	<20			52	48	54	<20
Residential	254358	45	50	65	51	25	<20	<20			54	50	55	<20
Residential	254361	45	50	65	48	23	<20	<20			51	47	53	<20
Residential	254365	45	50	65	49	23	<20	<20			52	48	53	<20
Residential	254367	45	50	65	46	23	<20	<20			53	49	54	<20
Residential	254369	45	50	65	53	26	<20	<20			56	52	57	<20
Residential	254370	45	50	65	48	24	<20	<20			51	47	53	<20
Residential	254372	45	50	65	46	23	<20	<20			51	47	52	<20
Residential	254376	45	50	65	55	26	<20	<20			57	53	58	<20
Residential	254377	45	50	65	46	24	<20	<20			53	49	54	<20
Residential	254378	45	50	65	48	23	<20	<20			54	50	55	<20
Residential	254381	45	50	65	39	23	<20	<20			53	49	54	<20
Residential	254383	45	50	65	42	23	<20	<20			54	50	55	<20
Residential	254384	45	50	65	52	25	<20	<20			56	52	58	<20
Residential	254387	45	50	65	35	20	<20	<20			50	47	52	<20
Residential	254388	45	50	65	51	24	<20	<20			55	51	56	<20
Residential	254389	45	50	65	47	23	<20	<20			55	51	56	<20
Residential	254391	45	50	65	47	23	<20	<20			54	50	55	<20
Residential	254396	45	50	65	50	25	<20	<20			55	51	57	<20
Residential	254400	45	50	65	55	26	<20	<20			56	52	57	<20
Residential	254401	45	50	65	41	23	<20	<20			54	50	55	<20
Residential	254402	45	50	65	50	24	<20	<20			55	51	56	<20
Residential	254403	45	50	65	55	25	<20	<20			57	53	58	<20
Residential	254404	45	50	65	43	23	<20	<20			54	50	55	<20
Residential	254406	45	50	65	50	23	<20	<20			56	52	57	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	254408	45	50	65	46	23	<20	<20			54	50	55	<20
Residential	254410	45	50	65	46	23	<20	<20			54	50	56	<20
Residential	254411	45	50	65	46	23	<20	<20			54	50	55	<20
Residential	254412	45	50	65	56	27	<20	<20			58	54	60	<20
Residential	254419	45	50	65	46	23	<20	<20			55	51	56	<20
Residential	254421	45	50	65	56	25	<20	<20			58	54	59	<20
Residential	254422	45	50	65	48	23	<20	<20			56	52	57	<20
Residential	254425	45	50	65	46	23	<20	<20			55	51	56	<20
Residential	254427	45	50	65	45	24	<20	<20			55	51	56	<20
Residential	254431	45	50	65	48	23	<20	<20			56	52	57	<20
Residential	254433	45	50	65	57	27	<20	<20			58	54	59	<20
Residential	254437	45	50	65	53	24	<20	<20			56	52	57	<20
Residential	254438	45	50	65	48	23	<20	<20			56	51	57	<20
Residential	254440	45	50	65	48	24	<20	<20			52	48	53	<20
Residential	254441	45	50	65	51	24	<20	<20			56	52	57	<20
Residential	254442	45	50	65	47	23	<20	<20			56	52	57	<20
Residential	254444	45	50	65	51	24	<20	<20			57	53	59	<20
Residential	254446	45	50	65	38	23	<20	<20			57	53	58	<20
Residential	254448	45	50	65	50	25	<20	<20			58	54	59	<20
Residential	254449	45	50	65	47	24	<20	<20			58	54	59	<20
Residential	254453	45	50	65	58	27	<20	<20			60	56	61	<20
Residential	254456	45	50	65	47	23	<20	<20			57	53	58	<20
Residential	254458	45	50	65	54	26	<20	<20			59	55	60	<20
Residential	254460	45	50	65	45	24	<20	<20			56	52	57	<20
Residential	254462	45	50	65	55	25	<20	<20			59	55	60	<20
Residential	254463	45	50	65	52	24	<20	<20			58	54	59	<20
Residential	254465	45	50	65	44	23	<20	<20			57	52	58	<20
Residential	254468	45	50	65	44	23	<20	<20			57	52	58	<20
Residential	254469	45	50	65	48	23	<20	<20			58	54	59	<20
Residential	254470	45	50	65	53	24	<20	<20			60	56	61	<20
Residential	254476	45	50	65	61	28	<20	<20			63	59	65	<20
Residential	254478	45	50	65	44	23	<20	<20			55	51	57	<20
Residential	254484	45	50	65	43	24	<20	<20			56	52	58	<20
Residential	254486	45	50	65	43	24	<20	<20			58	54	59	<20
Residential	254487	45	50	65	41	23	<20	<20			56	52	58	<20
Residential	254490	45	50	65	49	24	<20	<20			59	55	61	<20
Residential	254492	45	50	65	44	25	<20	<20			58	54	59	<20
Residential	254493	45	50	65	43	24	<20	<20			55	51	57	<20
Residential	254494	45	50	65	51	24	<20	<20			60	56	61	<20
Residential	254499	45	50	65	41	23	<20	<20			57	53	58	<20
Residential	254500	45	50	65	47	25	<20	<20			58	54	59	<20
Residential	254501	45	50	65	43	24	<20	<20			57	52	58	<20
Residential	254502	45	50	65	60	28	<20	<20			63	59	64	<20
Residential	254507	45	50	65	52	24	<20	<20			61	57	62	<20
Residential	254508	45	50	65	56	26	<20	<20			63	59	64	<20
Residential	254516	45	50	65	45	23	<20	<20			59	55	60	<20
Residential	254517	45	50	65	56	26	<20	<20			63	59	64	<20
Residential	254521	45	50	65	45	24	<20	<20			58	54	60	<20
Residential	254524	45	50	65	52	24	<20	<20			63	59	64	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	254526	45	50	65	46	26	<20	<20			59	55	60	<20
Residential	254529	45	50	65	45	25	<20	<20			58	54	59	<20
Residential	254531	45	50	65	45	25	<20	<20			58	54	59	<20
Residential	254532	45	50	65	54	24	<20	<20			63	59	64	<20
Residential	254533	45	50	65	51	26	<20	<20			63	59	64	<20
Residential	254534	45	50	65	63	28	<20	<20			67	63	68	<20
Residential	254535	45	50	65	48	24	<20	<20			60	56	61	<20
Residential	254536	45	50	65	60	26	<20	<20			66	62	67	<20
Residential	254537	45	50	65	45	24	<20	<20			58	54	59	<20
Residential	254539	45	50	65	60	27	<20	<20			66	62	67	<20
Residential	254540	45	50	65	57	25	<20	<20			66	63	68	<20
Residential	254542	45	50	65	56	26	<20	<20			66	62	67	<20
Residential	254546	45	50	65	53	24	<20	<20			67	63	68	<20
Residential	254549	45	50	65	51	26	<20	<20			67	63	68	<20
Residential	254550	45	50	65	51	27	<20	<20			67	63	68	<20
Residential	254551	45	50	65	65	27	<20	<20			73	69	74	<20
Residential	254558	45	50	65	65	27	<20	<20			77	73	78	<20
Residential	254559	45	50	65	65	28	<20	<20			76	73	78	<20
Residential	254560	45	50	65	52	24	<20	<20			64	60	65	<20
Residential	254562	45	50	65	64	28	<20	<20			78	75	80	<20
Residential	254565	45	50	65	63	28	<20	<20			78	74	79	<20
Residential	254568	45	50	65	49	26	<20	<20			67	64	69	<20
Residential	254571	45	50	65	49	24	<20	<20			67	63	68	<20
Residential	254573	45	50	65	49	24	<20	<20			67	63	68	<20
Residential	254578	45	50	65	48	26	<20	<20			67	63	68	<20
Residential	254587	45	50	65	46	24	<20	<20			67	63	68	<20
Residential	254589	45	50	65	53	28	<20	<20			77	73	78	<20
Residential	254594	45	50	65	45	23	<20	<20			67	63	68	<20
Residential	254595	45	50	65	53	26	<20	<20			78	74	79	<20
Residential	254598	45	50	65	53	25	<20	<20			77	73	78	<20
Residential	254601	45	50	65	46	25	<20	<20			68	64	70	<20
Residential	254603	45	50	65	53	27	<20	<20			78	74	79	<20
Residential	254609	45	50	65	61	28	<20	<20			89	86	91	<20
Residential	254612	45	50	65	62	28	<20	<20			74	70	75	<20
Residential	254614	45	50	65	55	28	<20	<20			85	81	87	<20
Residential	254628	45	50	65	53	28	<20	<20			69	65	70	<20
Residential	254635	45	50	65	48	28	<20	<20			71	67	72	<20
Residential	254640	45	50	65	34	27	<20	<20			42	38	43	<20
Residential	254656	45	50	65	24	<20	<20	<20			49	46	51	<20
Residential	254657	45	50	65	35	<20	<20	<20			37	33	38	<20
Residential	254661	45	50	65	30	<20	<20	<20			63	60	65	<20
Residential	254675	45	50	65	<20	<20	<20	<20			44	40	45	<20
Residential	254681	45	50	65	<20	<20	<20	<20			42	39	44	<20
Residential	254682	45	50	65	<20	<20	<20	<20			41	37	42	<20
Residential	254683	45	50	65	<20	<20	<20	<20			41	37	42	<20
Residential	254689	45	50	65	<20	<20	<20	<20			41	37	43	<20
Residential	254690	45	50	65	<20	<20	<20	<20			41	37	42	<20
Residential	254691	45	50	65	<20	<20	<20	<20			41	38	43	<20
Residential	254705	45	50	65	<20	<20	<20	<20			43	39	44	23

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	254714	45	50	65	24	<20	<20	<20			44	41	46	28
Residential	254717	45	50	65	24	<20	<20	<20			46	42	47	30
Residential	254719	45	50	65	40	<20	<20	<20			40	36	41	38
Residential	254720	45	50	65	37	<20	<20	<20			40	37	42	38
Residential	254728	45	50	65	43	<20	<20	<20			48	44	49	46
Residential	254730	45	50	65	44	<20	<20	<20			49	45	50	47
Residential	254731	45	50	65	41	<20	<20	<20			44	40	45	42
Residential	254736	45	50	65	41	<20	<20	<20			43	39	44	41
Residential	254745	45	50	65	38	<20	<20	<20			44	40	45	39
Residential	254747	45	50	65	42	<20	<20	<20			45	41	46	35
Residential	254755	45	50	65	38	<20	<20	<20			39	35	40	28
Residential	254757	45	50	65	41	<20	<20	<20			44	40	46	31
Residential	254762	45	50	65	39	<20	<20	<20			40	36	41	26
Residential	254769	45	50	65	42	<20	<20	<20			44	40	45	31
Residential	254783	45	50	65	44	<20	<20	<20			47	43	48	32
Residential	254787	45	50	65	54	<20	<20	<20			59	55	61	37
Residential	254790	45	50	65	52	<20	<20	<20			58	54	59	36
Residential	254808	45	50	65	43	<20	<20	<20			44	40	45	25
Residential	254810	45	50	65	35	<20	<20	<20			37	33	38	22
Residential	254817	45	50	65	35	<20	<20	<20			37	34	39	<20
Residential	254828	45	50	65	63	<20	<20	<20			65	61	66	26
Residential	254837	45	50	65	30	<20	<20	<20			38	34	39	<20
Residential	254892	45	50	65	31	<20	<20	<20			38	34	39	<20
Residential	254987	45	50	65	35	<20	<20	<20			48	44	49	<20
Residential	255054	45	50	65	37	<20	<20	<20			43	39	44	<20
Residential	255080	45	50	65	40	<20	<20	<20			46	42	47	<20
Residential	255091	45	50	65	30	<20	<20	<20			37	34	39	<20
Residential	255093	45	50	65	29	<20	<20	<20			38	34	40	<20
Residential	255097	45	50	65	30	<20	<20	<20			39	35	40	<20
Residential	255114	45	50	65	37	<20	<20	<20			37	34	39	<20
Residential	255143	45	50	65	31	<20	<20	<20			43	40	45	<20
Residential	255156	45	50	65	38	<20	<20	<20			39	35	40	<20
Residential	255158	45	50	65	39	<20	<20	<20			39	35	40	<20
Residential	255159	45	50	65	36	<20	<20	<20			46	42	47	<20
Residential	255192	45	50	65	37	<20	<20	<20			37	33	38	<20
Residential	255220	45	50	65	33	<20	<20	<20			37	33	38	<20
Residential	255223	45	50	65	37	<20	<20	<20			39	36	41	<20
Residential	255238	45	50	65	32	<20	<20	<20			42	38	43	<20
Residential	255240	45	50	65	33	<20	<20	<20			43	39	44	<20
Residential	255248	45	50	65	44	<20	<20	<20			47	43	48	<20
Residential	255277	45	50	65	49	23	<20	<20			53	49	54	<20
Residential	255295	45	50	65	40	24	<20	<20			41	38	43	<20
Residential	255307	45	50	65	35	26	<20	<20			38	34	39	<20
Residential	255309	45	50	65	35	26	<20	<20			37	34	39	<20
Residential	255318	45	50	65	45	<20	<20	<20			60	56	61	<20
Residential	255333	45	50	65	52	<20	<20	<20			62	58	63	<20
Residential	255336	45	50	65	51	<20	<20	<20			53	49	54	<20
Residential	255346	45	50	65	57	<20	<20	<20			77	73	78	<20
Residential	255349	45	50	65	47	<20	<20	<20			53	49	54	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	255350	45	50	65	49	<20	<20	<20			66	62	67	<20
Residential	255357	45	50	65	41	<20	<20	<20			63	59	64	<20
Residential	255377	45	50	65	46	<20	<20	<20			47	43	48	<20
Residential	255387	45	50	65	49	<20	<20	<20			52	48	53	<20
Residential	255388	45	50	65	51	<20	<20	<20			53	49	54	<20
Residential	255394	45	50	65	47	<20	<20	<20			53	49	54	<20
Residential	255395	45	50	65	36	<20	<20	<20			41	37	42	<20
Residential	255396	45	50	65	40	<20	<20	<20			43	39	44	<20
Residential	255402	45	50	65	34	<20	<20	<20			39	36	41	<20
Residential	255406	45	50	65	33	<20	<20	<20			38	34	39	<20
Residential	255412	45	50	65	35	<20	<20	<20			42	38	44	<20
Residential	255433	45	50	65	39	<20	<20	<20			59	55	60	<20
Residential	255453	45	50	65	48	<20	<20	<20			48	44	49	<20
Residential	255455	45	50	65	49	<20	<20	<20			49	45	51	<20
Residential	255487	45	50	65	34	<20	<20	<20			50	46	51	<20
Residential	255511	45	50	65	25	<20	<20	<20			65	61	67	<20
Residential	255514	45	50	65	25	<20	<20	<20			59	55	60	<20
Residential	255518	45	50	65	24	<20	<20	<20			37	34	38	<20
Residential	255520	45	50	65	24	<20	<20	<20			36	33	38	<20
Residential	255558	45	50	65	27	<20	<20	<20			38	35	40	<20
Residential	255595	45	50	65	42	<20	<20	<20			47	43	48	28
Residential	255601	45	50	65	43	<20	<20	<20			48	44	49	28
Residential	255603	45	50	65	39	<20	<20	<20			53	49	54	40
Residential	255605	45	50	65	37	<20	<20	<20			53	49	55	41
Residential	255617	45	50	65	34	<20	<20	<20			41	37	42	34
Residential	255620	45	50	65	33	<20	<20	<20			34	31	36	31
Residential	255621	45	50	65	33	<20	<20	<20			34	31	36	32
Residential	255630	45	50	65	44	<20	<20	<20			49	45	50	42
Residential	255640	45	50	65	35	<20	<20	<20			38	34	39	36
Residential	255641	45	50	65	47	<20	<20	<20			50	46	51	44
Residential	255691	45	50	65	55	<20	<20	<20			56	52	57	32
Residential	255776	45	50	65	41	<20	<20	<20			58	54	59	21
Residential	255777	45	50	65	40	<20	<20	<20			57	53	58	21
Residential	255835	45	50	65	42	<20	<20	<20			44	41	46	<20
Residential	255861	45	50	65	41	<20	<20	<20			43	40	45	<20
Residential	255865	45	50	65	40	<20	<20	<20			42	38	43	<20
Residential	255892	45	50	65	38	<20	<20	<20			41	37	42	<20
Residential	255934	45	50	65	46	<20	<20	<20			62	59	64	<20
Residential	255984	45	50	65	52	<20	<20	<20			56	52	57	<20
Residential	256012	45	50	65	37	<20	<20	<20			38	34	39	<20
Residential	256019	45	50	65	65	<20	<20	<20			73	70	75	<20
Residential	256048	45	50	65	42	<20	<20	<20			47	43	48	<20
Residential	256057	45	50	65	43	<20	<20	<20			53	49	55	<20
Residential	256166	45	50	65	60	<20	<20	<20			64	60	65	<20
Residential	256191	45	50	65	66	<20	<20	<20			62	58	63	<20
Residential	256192	45	50	65	66	<20	<20	<20			63	59	64	<20
Residential	256213	45	50	65	52	<20	<20	<20			55	51	56	<20
Residential	256248	45	50	65	67	<20	<20	<20			63	59	64	<20
Residential	256284	45	50	65	42	<20	<20	<20			42	38	43	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	256289	45	50	65	47	<20	<20	20			45	41	46	<20
Residential	256408	45	50	65	32	<20	<20	23			45	41	46	<20
Residential	256574	45	50	65	36	<20	<20	32			43	39	44	<20
Residential	256709	45	50	65	40	<20	<20	30			41	37	42	<20
Residential	256813	45	50	65	41	<20	<20	37			43	40	45	<20
Residential	256817	45	50	65	42	<20	<20	32			49	45	51	<20
Residential	256879	45	50	65	38	<20	<20	26			41	37	42	<20
Residential	256882	45	50	65	39	<20	<20	26			41	37	42	<20
Residential	256926	45	50	65	43	<20	<20	37			42	39	44	<20
Residential	256951	45	50	65	41	<20	<20	36			40	37	42	<20
Residential	257009	45	50	65	41	<20	<20	29			41	37	42	<20
Residential	257028	45	50	65	57	<20	<20	30			54	49	55	<20
Residential	257039	45	50	65	41	<20	<20	33			39	36	41	<20
Residential	257046	45	50	65	55	<20	<20	29			52	47	53	<20
Residential	257128	45	50	65	39	<20	<20	31			38	35	40	<20
Residential	259291	45	50	65	53	<20	<20	22			48	44	49	<20
Residential	259381	45	50	65	45	<20	<20	23			43	39	45	<20
Residential	259957	45	50	65	52	<20	<20	23			47	43	48	<20
Residential	260029	45	50	65	47	<20	<20	23			49	45	50	<20
Residential	260058	45	50	65	57	<20	<20	26			76	72	77	<20
Residential	260067	45	50	65	60	<20	<20	26			76	73	78	<20
Residential	260069	45	50	65	45	<20	<20	25			50	46	51	<20
Residential	260119	45	50	65	62	<20	<20	24			68	64	69	<20
Residential	260150	45	50	65	55	<20	<20	28			64	60	65	<20
Residential	260165	45	50	65	60	<20	<20	25			62	58	64	<20
Residential	260169	45	50	65	68	<20	<20	25			70	67	72	<20
Residential	260170	45	50	65	54	<20	<20	28			69	65	70	<20
Residential	260189	45	50	65	69	<20	<20	25			72	68	73	<20
Residential	260213	45	50	65	66	<20	<20	27			74	71	76	<20
Residential	260446	45	50	65	48	<20	<20	28			50	46	51	<20
Residential	260528	45	50	65	59	<20	<20	31			70	66	71	<20
Residential	260630	45	50	65	39	<20	<20	28			42	38	43	<20
Residential	260789	45	50	65	37	<20	<20	28			36	33	37	<20
Residential	260930	45	50	65	55	<20	<20	40			60	56	61	<20
Residential	261084	45	50	65	58	<20	<20	47			70	67	72	<20
Residential	261368	45	50	65	48	<20	<20	36			73	69	74	<20
Residential	261386	45	50	65	49	<20	<20	36			72	68	74	<20
Residential	261419	45	50	65	40	<20	<20	27			44	40	45	<20
Residential	261452	45	50	65	52	<20	<20	42			68	64	69	<20
Residential	261465	45	50	65	52	<20	<20	45			64	60	65	<20
Residential	261493	45	50	65	53	<20	<20	38			71	68	73	<20
Residential	261535	45	50	65	51	<20	<20	42			64	60	65	<20
Residential	261542	45	50	65	29	<20	<20	22			39	35	40	<20
Residential	261572	45	50	65	56	<20	<20	39			65	61	66	<20
Residential	261608	45	50	65	57	<20	<20	36			62	58	63	<20
Residential	261613	45	50	65	56	<20	<20	42			60	56	62	<20
Residential	261633	45	50	65	31	<20	<20	23			39	36	41	<20
Residential	261638	45	50	65	55	<20	<20	36			65	61	66	<20
Residential	261649	45	50	65	50	<20	<20	36			63	59	65	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	261661	45	50	65	57	<20	<20	38			62	58	63	<20
Residential	261665	45	50	65	52	<20	<20	35			66	62	67	<20
Residential	261686	45	50	65	54	<20	<20	34			69	65	70	<20
Residential	261713	45	50	65	53	<20	<20	35			62	58	63	<20
Residential	261717	45	50	65	54	<20	<20	36			66	62	67	<20
Residential	261720	45	50	65	51	<20	<20	36			69	65	70	<20
Residential	261729	45	50	65	49	<20	<20	35			70	66	71	<20
Residential	261739	45	50	65	50	<20	<20	34			70	66	71	<20
Residential	261781	45	50	65	58	<20	<20	35			61	57	62	<20
Residential	261786	45	50	65	52	<20	<20	36			60	56	61	<20
Residential	261802	45	50	65	54	<20	<20	34			63	60	65	<20
Residential	261806	45	50	65	51	<20	<20	39			59	55	60	<20
Residential	261855	45	50	65	63	<20	<20	41			56	52	57	<20
Residential	261888	45	50	65	61	<20	<20	36			58	55	60	<20
Residential	261892	45	50	65	66	<20	<20	40			56	52	57	<20
Residential	261908	45	50	65	55	<20	<20	31			71	68	73	<20
Residential	261910	45	50	65	64	<20	<20	39			56	53	58	<20
Residential	261913	45	50	65	65	<20	<20	39			56	52	57	<20
Residential	261927	45	50	65	67	<20	<20	40			56	52	57	<20
Residential	261958	45	50	65	51	<20	<20	46			46	42	47	<20
Residential	261969	45	50	65	57	<20	<20	31			70	66	71	<20
Residential	261999	45	50	65	28	<20	<20	20			39	36	41	<20
Residential	262034	45	50	65	60	<20	<20	36			56	52	57	<20
Residential	262063	45	50	65	58	<20	<20	37			57	53	58	<20
Residential	262104	45	50	65	58	<20	<20	33			56	52	57	<20
Residential	262181	45	50	65	57	<20	<20	32			55	51	56	<20
Residential	262211	45	50	65	59	<20	<20	40			49	45	50	<20
Residential	262286	45	50	65	56	<20	<20	31			54	50	56	<20
Residential	263137	45	50	65	47	<20	<20	30			46	43	48	<20
Residential	263676	45	50	65	41	<20	<20	28			43	39	44	<20
Residential	263929	45	50	65	38	<20	<20	27			40	36	41	<20
Residential	314565	45	50	65	43	<20	<20	<20			42	38	43	<20
Residential	314594	45	50	65	43	<20	<20	<20			42	38	43	<20
Residential	314600	45	50	65	43	<20	<20	<20			41	37	43	<20
Residential	314629	45	50	65	46	<20	<20	<20			42	38	43	<20
Residential	314940	45	50	65	48	<20	<20	<20			46	42	48	<20
Residential	315063	45	50	65	47	<20	<20	<20			50	46	51	<20
Residential	315138	45	50	65	59	<20	<20	<20			73	69	74	<20
Residential	315139	45	50	65	59	<20	<20	<20			75	72	77	<20
Residential	315262	45	50	65	60	<20	<20	<20			65	62	67	<20
Residential	315302	45	50	65	56	<20	<20	<20			64	60	65	<20
Residential	315314	45	50	65	45	<20	<20	<20			49	45	50	<20
Residential	316186	45	50	65	43	<20	<20	<20			46	42	47	<20
Residential	316281	45	50	65	35	<20	<20	<20			39	36	40	<20
Residential	316291	45	50	65	36	<20	<20	<20			38	35	40	<20
Residential	316328	45	50	65	44	<20	<20	<20			53	48	54	<20
Residential	316394	45	50	65	49	<20	<20	<20			50	46	51	<20
Residential	316410	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	316470	45	50	65	46	<20	<20	<20			46	42	47	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	316509	45	50	65	46	<20	<20	<20			47	43	48	<20
Residential	316523	45	50	65	46	<20	<20	<20			46	42	48	<20
Residential	316557	45	50	65	46	<20	<20	<20			46	42	47	<20
Residential	316558	45	50	65	46	<20	<20	<20			46	42	47	<20
Residential	316573	45	50	65	40	<20	<20	<20			46	42	47	<20
Residential	316600	45	50	65	40	<20	<20	<20			46	42	47	<20
Residential	316608	45	50	65	40	<20	<20	<20			45	41	47	<20
Residential	316612	45	50	65	43	<20	<20	<20			44	40	45	<20
Residential	316617	45	50	65	40	<20	<20	<20			45	41	46	<20
Residential	316621	45	50	65	40	<20	<20	<20			46	42	47	<20
Residential	316622	45	50	65	39	<20	<20	<20			45	41	46	<20
Residential	316637	45	50	65	38	<20	<20	<20			45	41	46	<20
Residential	316641	45	50	65	39	<20	<20	<20			44	40	45	<20
Residential	316648	45	50	65	42	<20	<20	<20			45	41	46	<20
Residential	316649	45	50	65	39	<20	<20	<20			44	40	45	<20
Residential	316659	45	50	65	39	<20	<20	<20			45	41	46	<20
Residential	316673	45	50	65	39	<20	<20	<20			44	40	45	<20
Residential	316675	45	50	65	39	<20	<20	<20			44	40	45	<20
Residential	316677	45	50	65	39	<20	<20	<20			45	41	46	<20
Residential	316695	45	50	65	39	<20	<20	<20			44	40	45	<20
Residential	316710	45	50	65	37	<20	<20	<20			43	39	44	<20
Residential	316712	45	50	65	39	<20	<20	<20			44	40	45	<20
Residential	316713	45	50	65	39	<20	<20	<20			44	40	45	<20
Residential	316716	45	50	65	37	<20	<20	<20			42	38	43	<20
Residential	316717	45	50	65	42	<20	<20	<20			45	41	46	<20
Residential	316720	45	50	65	39	<20	<20	<20			43	39	44	<20
Residential	316722	45	50	65	38	<20	<20	<20			41	37	42	<20
Residential	316724	45	50	65	38	<20	<20	<20			43	39	44	<20
Residential	316726	45	50	65	36	<20	<20	<20			42	38	44	<20
Residential	316734	45	50	65	36	<20	<20	<20			43	39	44	<20
Residential	316738	45	50	65	42	<20	<20	<20			43	39	45	<20
Residential	316739	45	50	65	38	<20	<20	<20			43	39	44	<20
Residential	316746	45	50	65	39	<20	<20	<20			43	39	44	<20
Residential	316747	45	50	65	38	<20	<20	<20			41	37	42	<20
Residential	316756	45	50	65	38	<20	<20	<20			42	38	43	<20
Residential	316762	45	50	65	37	<20	<20	<20			42	38	43	<20
Residential	316763	45	50	65	41	<20	<20	<20			44	40	45	<20
Residential	316764	45	50	65	37	<20	<20	<20			42	38	43	<20
Residential	316770	45	50	65	38	<20	<20	<20			42	38	43	<20
Residential	316772	45	50	65	38	<20	<20	<20			42	38	43	<20
Residential	316776	45	50	65	36	<20	<20	<20			40	36	41	<20
Residential	316778	45	50	65	38	<20	<20	<20			42	38	43	<20
Residential	316781	45	50	65	37	<20	<20	<20			42	38	43	<20
Residential	316787	45	50	65	38	<20	<20	<20			42	38	43	<20
Residential	316793	45	50	65	36	<20	<20	<20			41	37	42	<20
Residential	316797	45	50	65	38	<20	<20	<20			42	38	43	<20
Residential	316800	45	50	65	35	<20	<20	<20			39	35	40	<20
Residential	316811	45	50	65	38	<20	<20	<20			41	37	43	<20
Residential	316815	45	50	65	37	<20	<20	<20			42	38	43	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	316820	45	50	65	36	<20	<20	<20			42	38	43	<20
Residential	316821	45	50	65	37	<20	<20	<20			42	38	43	<20
Residential	316823	45	50	65	37	<20	<20	<20			41	37	42	<20
Residential	316825	45	50	65	37	<20	<20	<20			41	37	42	<20
Residential	316826	45	50	65	35	<20	<20	<20			39	36	41	<20
Residential	316831	45	50	65	37	<20	<20	<20			41	38	43	<20
Residential	316833	45	50	65	36	<20	<20	<20			40	37	42	<20
Residential	316846	45	50	65	37	<20	<20	<20			41	38	43	<20
Residential	316848	45	50	65	35	<20	<20	<20			42	38	43	<20
Residential	316849	45	50	65	42	<20	<20	<20			42	38	44	<20
Residential	316860	45	50	65	36	<20	<20	<20			41	37	42	<20
Residential	316861	45	50	65	37	<20	<20	<20			41	37	42	<20
Residential	316862	45	50	65	36	<20	<20	<20			39	35	41	<20
Residential	316866	45	50	65	36	<20	<20	<20			41	37	42	<20
Residential	316869	45	50	65	37	<20	<20	<20			40	36	41	<20
Residential	316877	45	50	65	36	<20	<20	<20			40	36	41	<20
Residential	316878	45	50	65	37	<20	<20	<20			40	36	41	<20
Residential	316880	45	50	65	37	<20	<20	<20			40	36	41	<20
Residential	316889	45	50	65	36	<20	<20	<20			40	36	41	<20
Residential	316890	45	50	65	38	<20	<20	<20			40	36	42	<20
Residential	316902	45	50	65	35	<20	<20	<20			42	38	43	<20
Residential	316903	45	50	65	36	<20	<20	<20			40	37	42	<20
Residential	316907	45	50	65	35	<20	<20	<20			39	35	40	<20
Residential	316908	45	50	65	37	<20	<20	<20			40	36	41	<20
Residential	316914	45	50	65	36	<20	<20	<20			40	37	42	<20
Residential	316915	45	50	65	37	<20	<20	<20			40	36	42	<20
Residential	316916	45	50	65	36	<20	<20	<20			40	36	41	<20
Residential	316917	45	50	65	37	<20	<20	<20			40	36	41	<20
Residential	316920	45	50	65	36	<20	<20	<20			41	37	43	<20
Residential	316924	45	50	65	34	<20	<20	<20			40	36	41	<20
Residential	316926	45	50	65	36	<20	<20	<20			40	36	41	<20
Residential	316927	45	50	65	36	<20	<20	<20			40	36	41	<20
Residential	316929	45	50	65	35	<20	<20	<20			40	36	41	<20
Residential	316930	45	50	65	36	<20	<20	<20			40	36	41	<20
Residential	316931	45	50	65	34	<20	<20	<20			38	35	40	<20
Residential	316938	45	50	65	36	<20	<20	<20			39	36	41	<20
Residential	316939	45	50	65	40	<20	<20	<20			41	37	42	<20
Residential	316942	45	50	65	36	<20	<20	<20			39	35	40	<20
Residential	316944	45	50	65	36	<20	<20	<20			39	35	40	<20
Residential	316948	45	50	65	35	<20	<20	<20			37	34	39	<20
Residential	316952	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	316953	45	50	65	36	<20	<20	<20			40	36	41	<20
Residential	316954	45	50	65	35	<20	<20	<20			39	34	40	<20
Residential	316957	45	50	65	36	<20	<20	<20			41	37	42	<20
Residential	316960	45	50	65	36	<20	<20	<20			39	35	40	<20
Residential	316962	45	50	65	39	<20	<20	<20			39	35	40	<20
Residential	316963	45	50	65	35	<20	<20	<20			39	36	41	<20
Residential	316966	45	50	65	34	<20	<20	<20			39	35	40	<20
Residential	316970	45	50	65	36	<20	<20	<20			38	35	40	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	316971	45	50	65	36	<20	<20	<20			40	36	42	<20
Residential	316973	45	50	65	35	<20	<20	<20			37	33	38	<20
Residential	316975	45	50	65	33	<20	<20	<20			38	35	40	<20
Residential	316976	45	50	65	35	<20	<20	<20			41	37	42	<20
Residential	316980	45	50	65	36	<20	<20	<20			39	35	40	<20
Residential	316982	45	50	65	35	<20	<20	<20			39	35	40	<20
Residential	316992	45	50	65	35	<20	<20	<20			39	35	40	<20
Residential	316993	45	50	65	35	<20	<20	<20			38	35	40	<20
Residential	316997	45	50	65	35	<20	<20	<20			41	37	42	<20
Residential	317002	45	50	65	35	<20	<20	<20			40	35	41	<20
Residential	317003	45	50	65	36	<20	<20	<20			39	36	41	<20
Residential	317005	45	50	65	33	<20	<20	<20			39	35	40	<20
Residential	317011	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317013	45	50	65	33	<20	<20	<20			38	35	40	<20
Residential	317018	45	50	65	34	<20	<20	<20			39	35	40	<20
Residential	317021	45	50	65	35	<20	<20	<20			38	35	40	<20
Residential	317022	45	50	65	35	<20	<20	<20			38	34	39	<20
Residential	317024	45	50	65	36	<20	<20	<20			39	35	40	<20
Residential	317027	45	50	65	34	<20	<20	<20			40	36	41	<20
Residential	317030	45	50	65	33	<20	<20	<20			35	31	36	<20
Residential	317033	45	50	65	35	<20	<20	<20			39	35	40	<20
Residential	317035	45	50	65	35	<20	<20	<20			39	36	41	<20
Residential	317041	45	50	65	34	<20	<20	<20			39	35	40	<20
Residential	317042	45	50	65	33	<20	<20	<20			34	31	36	<20
Residential	317043	45	50	65	36	<20	<20	<20			38	35	40	<20
Residential	317044	45	50	65	33	<20	<20	<20			36	33	37	<20
Residential	317045	45	50	65	33	<20	<20	<20			38	35	40	<20
Residential	317046	45	50	65	35	<20	<20	<20			38	34	39	<20
Residential	317047	45	50	65	35	<20	<20	<20			39	34	40	<20
Residential	317060	45	50	65	35	<20	<20	<20			38	34	39	<20
Residential	317062	45	50	65	34	<20	<20	<20			39	36	41	<20
Residential	317063	45	50	65	35	<20	<20	<20			40	35	41	<20
Residential	317067	45	50	65	40	<20	<20	<20			41	37	42	<20
Residential	317068	45	50	65	35	<20	<20	<20			39	35	40	<20
Residential	317074	45	50	65	32	<20	<20	<20			36	33	38	<20
Residential	317077	45	50	65	34	<20	<20	<20			38	35	40	<20
Residential	317078	45	50	65	33	<20	<20	<20			38	35	40	<20
Residential	317079	45	50	65	33	<20	<20	<20			37	34	39	<20
Residential	317084	45	50	65	35	<20	<20	<20			38	34	39	<20
Residential	317090	45	50	65	34	<20	<20	<20			39	35	40	<20
Residential	317094	45	50	65	35	<20	<20	<20			39	35	40	<20
Residential	317096	45	50	65	33	<20	<20	<20			37	33	38	<20
Residential	317099	45	50	65	34	<20	<20	<20			39	35	40	<20
Residential	317100	45	50	65	33	<20	<20	<20			37	33	38	<20
Residential	317101	45	50	65	32	<20	<20	<20			36	33	38	<20
Residential	317102	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317103	45	50	65	26	<20	<20	<20			23	22	25	<20
Residential	317104	45	50	65	35	<20	<20	<20			39	35	40	<20
Residential	317105	45	50	65	33	<20	<20	<20			36	33	38	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	317107	45	50	65	35	<20	<20	<20			38	34	39	<20
Residential	317109	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	317110	45	50	65	26	<20	<20	<20			23	22	25	<20
Residential	317112	45	50	65	35	<20	<20	<20			38	34	39	<20
Residential	317118	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317124	45	50	65	27	<20	<20	<20			24	23	26	<20
Residential	317131	45	50	65	35	<20	<20	<20			38	35	40	<20
Residential	317135	45	50	65	34	<20	<20	<20			37	34	39	<20
Residential	317136	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317140	45	50	65	33	<20	<20	<20			37	34	38	<20
Residential	317144	45	50	65	35	<20	<20	<20			37	34	39	<20
Residential	317145	45	50	65	35	<20	<20	<20			38	34	39	<20
Residential	317151	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317154	45	50	65	33	<20	<20	<20			40	36	41	<20
Residential	317159	45	50	65	33	<20	<20	<20			38	34	39	<20
Residential	317161	45	50	65	34	<20	<20	<20			39	35	40	<20
Residential	317171	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	317172	45	50	65	32	<20	<20	<20			35	32	37	<20
Residential	317180	45	50	65	33	<20	<20	<20			38	34	39	<20
Residential	317183	45	50	65	33	<20	<20	<20			38	35	40	<20
Residential	317189	45	50	65	29	<20	<20	<20			31	27	32	<20
Residential	317191	45	50	65	35	<20	<20	<20			38	35	40	<20
Residential	317192	45	50	65	33	<20	<20	<20			35	31	36	<20
Residential	317193	45	50	65	32	<20	<20	<20			33	30	35	<20
Residential	317197	45	50	65	34	<20	<20	<20			37	33	38	<20
Residential	317198	45	50	65	33	<20	<20	<20			37	34	39	<20
Residential	317199	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	317200	45	50	65	34	<20	<20	<20			37	33	38	<20
Residential	317201	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	317206	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317207	45	50	65	34	<20	<20	<20			37	33	38	<20
Residential	317212	45	50	65	33	<20	<20	<20			38	34	39	<20
Residential	317213	45	50	65	32	<20	<20	<20			36	33	38	<20
Residential	317215	45	50	65	34	<20	<20	<20			36	33	38	<20
Residential	317216	45	50	65	34	<20	<20	<20			39	36	41	<20
Residential	317223	45	50	65	34	<20	<20	<20			37	33	39	<20
Residential	317228	45	50	65	34	<20	<20	<20			39	35	40	<20
Residential	317230	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317241	45	50	65	32	<20	<20	<20			36	32	37	<20
Residential	317242	45	50	65	27	<20	<20	<20			24	22	26	<20
Residential	317245	45	50	65	27	<20	<20	<20			24	22	26	<20
Residential	317246	45	50	65	27	<20	<20	<20			23	22	25	<20
Residential	317247	45	50	65	34	<20	<20	<20			40	36	41	<20
Residential	317248	45	50	65	34	<20	<20	<20			36	32	38	<20
Residential	317250	45	50	65	33	<20	<20	<20			38	34	39	<20
Residential	317256	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317257	45	50	65	32	<20	<20	<20			35	31	36	<20
Residential	317258	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317264	45	50	65	31	<20	<20	<20			36	32	37	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	317265	45	50	65	32	<20	<20	<20			34	30	36	<20
Residential	317266	45	50	65	31	<20	<20	<20			34	31	36	<20
Residential	317268	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	317269	45	50	65	32	<20	<20	<20			35	32	36	<20
Residential	317270	45	50	65	32	<20	<20	<20			36	32	37	<20
Residential	317271	45	50	65	34	<20	<20	<20			38	34	40	<20
Residential	317273	45	50	65	26	<20	<20	<20			27	24	29	<20
Residential	317274	45	50	65	33	<20	<20	<20			37	34	39	<20
Residential	317277	45	50	65	34	<20	<20	<20			39	36	41	<20
Residential	317278	45	50	65	33	<20	<20	<20			35	31	36	<20
Residential	317282	45	50	65	32	<20	<20	<20			35	31	36	<20
Residential	317285	45	50	65	24	<20	<20	<20			23	22	25	<20
Residential	317286	45	50	65	32	<20	<20	<20			34	31	36	<20
Residential	317290	45	50	65	33	<20	<20	<20			37	33	39	<20
Residential	317297	45	50	65	33	<20	<20	<20			37	33	38	<20
Residential	317300	45	50	65	33	<20	<20	<20			38	34	39	<20
Residential	317312	45	50	65	28	<20	<20	<20			26	24	28	<20
Residential	317322	45	50	65	33	<20	<20	<20			39	35	40	<20
Residential	317325	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	317326	45	50	65	33	<20	<20	<20			39	35	40	<20
Residential	317330	45	50	65	27	<20	<20	<20			25	22	26	<20
Residential	317331	45	50	65	34	<20	<20	<20			38	34	39	<20
Residential	317335	45	50	65	33	<20	<20	<20			38	34	39	<20
Residential	317346	45	50	65	26	<20	<20	<20			27	25	29	<20
Residential	317352	45	50	65	31	<20	<20	<20			32	29	34	<20
Residential	317355	45	50	65	34	<20	<20	<20			37	33	39	<20
Residential	317357	45	50	65	30	<20	<20	<20			30	27	31	<20
Residential	317358	45	50	65	30	<20	<20	<20			33	30	35	<20
Residential	317361	45	50	65	33	<20	<20	<20			38	35	40	<20
Residential	317371	45	50	65	33	<20	<20	<20			39	35	40	<20
Residential	317372	45	50	65	29	<20	<20	<20			29	26	30	<20
Residential	317373	45	50	65	25	<20	<20	<20			25	23	27	<20
Residential	317378	45	50	65	33	<20	<20	<20			37	34	39	<20
Residential	317379	45	50	65	31	<20	<20	<20			36	32	37	<20
Residential	317385	45	50	65	32	<20	<20	<20			34	31	36	<20
Residential	317397	45	50	65	32	<20	<20	<20			35	32	37	<20
Residential	317399	45	50	65	33	<20	<20	<20			36	33	38	<20
Residential	317411	45	50	65	32	<20	<20	<20			34	30	35	<20
Residential	317412	45	50	65	28	<20	<20	<20			28	25	30	<20
Residential	317418	45	50	65	32	<20	<20	<20			37	33	38	<20
Residential	317423	45	50	65	25	<20	<20	<20			26	24	28	<20
Residential	317426	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	317428	45	50	65	32	<20	<20	<20			36	32	37	<20
Residential	317429	45	50	65	31	<20	<20	<20			36	32	38	<20
Residential	317437	45	50	65	29	<20	<20	<20			30	27	31	<20
Residential	317443	45	50	65	33	<20	<20	<20			37	33	38	<20
Residential	317452	45	50	65	32	<20	<20	<20			33	30	35	<20
Residential	317456	45	50	65	30	<20	<20	<20			30	27	32	<20
Residential	317457	45	50	65	30	<20	<20	<20			34	30	35	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	317460	45	50	65	26	<20	<20	<20			24	22	26	<20
Residential	317462	45	50	65	30	<20	<20	<20			33	30	35	<20
Residential	317466	45	50	65	29	<20	<20	<20			31	28	32	<20
Residential	317467	45	50	65	32	<20	<20	<20			34	31	36	<20
Residential	317468	45	50	65	32	<20	<20	<20			35	32	37	<20
Residential	317471	45	50	65	31	<20	<20	<20			33	30	35	<20
Residential	317473	45	50	65	32	<20	<20	<20			35	31	36	<20
Residential	317474	45	50	65	28	<20	<20	<20			28	25	30	<20
Residential	317477	45	50	65	25	<20	<20	<20			27	24	29	<20
Residential	317480	45	50	65	30	<20	<20	<20			30	27	32	<20
Residential	317481	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	317485	45	50	65	29	<20	<20	<20			34	30	35	<20
Residential	317489	45	50	65	32	<20	<20	<20			34	31	35	<20
Residential	317493	45	50	65	28	<20	<20	<20			29	26	30	<20
Residential	317498	45	50	65	31	<20	<20	<20			35	32	37	<20
Residential	317499	45	50	65	34	<20	<20	<20			36	32	37	<20
Residential	317502	45	50	65	33	<20	<20	<20			36	32	38	<20
Residential	317504	45	50	65	29	<20	<20	<20			30	27	31	<20
Residential	317506	45	50	65	30	<20	<20	<20			30	27	31	<20
Residential	317508	45	50	65	30	<20	<20	<20			33	29	34	<20
Residential	317516	45	50	65	31	<20	<20	<20			33	29	34	<20
Residential	317517	45	50	65	27	<20	<20	<20			27	25	29	<20
Residential	317523	45	50	65	31	<20	<20	<20			33	30	35	<20
Residential	317526	45	50	65	28	<20	<20	<20			33	29	34	<20
Residential	317528	45	50	65	32	<20	<20	<20			35	31	36	<20
Residential	317530	45	50	65	32	<20	<20	<20			34	31	35	<20
Residential	317536	45	50	65	32	<20	<20	<20			35	32	37	<20
Residential	317539	45	50	65	30	<20	<20	<20			31	27	32	<20
Residential	317544	45	50	65	30	<20	<20	<20			31	28	33	<20
Residential	317549	45	50	65	30	<20	<20	<20			32	28	33	<20
Residential	317550	45	50	65	29	<20	<20	<20			33	30	35	<20
Residential	317554	45	50	65	30	<20	<20	<20			33	29	34	<20
Residential	317558	45	50	65	31	<20	<20	<20			33	30	35	<20
Residential	317562	45	50	65	30	<20	<20	<20			33	29	34	<20
Residential	317580	45	50	65	29	<20	<20	<20			32	29	34	<20
Residential	317586	45	50	65	31	<20	<20	<20			33	29	34	<20
Residential	317589	45	50	65	29	<20	<20	<20			29	26	31	<20
Residential	317602	45	50	65	30	<20	<20	<20			30	27	31	<20
Residential	317606	45	50	65	27	<20	<20	<20			30	27	32	<20
Residential	317609	45	50	65	28	<20	<20	<20			32	28	33	<20
Residential	317611	45	50	65	30	<20	<20	<20			33	29	34	<20
Residential	317613	45	50	65	30	<20	<20	<20			33	30	35	<20
Residential	317630	45	50	65	30	<20	<20	<20			30	27	31	<20
Residential	317636	45	50	65	29	<20	<20	<20			32	29	34	<20
Residential	317641	45	50	65	30	<20	<20	<20			30	27	32	<20
Residential	317649	45	50	65	29	<20	<20	<20			31	27	32	<20
Residential	317658	45	50	65	28	<20	<20	<20			28	25	30	<20
Residential	317663	45	50	65	30	<20	<20	<20			32	29	34	<20
Residential	317696	45	50	65	30	<20	<20	<20			31	28	33	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	317697	45	50	65	30	<20	<20	<20			32	29	33	<20
Residential	317699	45	50	65	28	<20	<20	<20			29	26	30	<20
Residential	317703	45	50	65	30	<20	<20	<20			30	27	31	<20
Residential	317712	45	50	65	30	<20	<20	<20			30	27	32	<20
Residential	317732	45	50	65	30	<20	<20	<20			30	27	31	<20
Residential	317734	45	50	65	30	<20	<20	<20			30	27	32	<20
Residential	317749	45	50	65	27	<20	<20	<20			29	26	30	<20
Residential	317757	45	50	65	27	<20	<20	<20			29	26	31	<20
Residential	318983	45	50	65	33	<20	<20	<20			34	30	35	<20
Residential	318985	45	50	65	51	<20	<20	<20			53	49	54	22
Residential	318986	45	50	65	36	<20	<20	<20			37	34	39	25
Residential	318992	45	50	65	40	<20	<20	<20			44	40	45	42
Residential	318997	45	50	65	39	<20	<20	<20			44	40	45	40
Residential	318998	45	50	65	37	<20	<20	<20			42	38	43	40
Residential	318999	45	50	65	42	<20	<20	<20			41	37	43	40
Residential	319000	45	50	65	69	<20	<20	<20			71	68	72	65
Residential	319002	45	50	65	32	<20	<20	<20			33	29	34	30
Residential	319003	45	50	65	51	<20	<20	<20			61	57	63	58
Residential	319005	45	50	65	42	<20	<20	<20			58	55	60	55
Residential	319009	45	50	65	50	<20	<20	<20			56	53	58	44
Residential	319012	45	50	65	42	<20	<20	<20			58	54	59	42
Residential	319013	45	50	65	31	<20	<20	<20			37	34	39	26
Residential	319016	45	50	65	32	<20	<20	<20			48	44	49	31
Residential	319017	45	50	65	40	<20	<20	<20			41	38	43	22
Residential	319019	45	50	65	31	<20	<20	<20			61	57	62	<20
Residential	319020	45	50	65	39	<20	<20	<20			46	42	47	<20
Residential	319022	45	50	65	31	<20	<20	<20			49	45	50	<20
Residential	319024	45	50	65	33	<20	<20	<20			46	42	48	<20
Residential	319031	45	50	65	38	<20	<20	<20			45	41	47	<20
Residential	319032	45	50	65	46	<20	<20	<20			49	44	50	<20
Residential	319034	45	50	65	35	<20	<20	<20			35	32	37	<20
Residential	319035	45	50	65	40	<20	<20	<20			40	36	41	<20
Residential	319037	45	50	65	48	<20	<20	<20			49	45	50	<20
Residential	319039	45	50	65	53	<20	<20	<20			53	49	54	<20
Residential	319040	45	50	65	34	<20	<20	<20			44	40	45	<20
Residential	319042	45	50	65	43	<20	<20	<20			61	57	62	<20
Residential	319044	45	50	65	41	<20	<20	<20			62	58	63	<20
Residential	319045	45	50	65	39	<20	<20	<20			65	61	66	<20
Residential	319048	45	50	65	38	<20	<20	<20			57	53	58	<20
Residential	319049	45	50	65	44	<20	<20	<20			53	49	54	51
Residential	319052	45	50	65	33	<20	<20	<20			37	33	38	36
Residential	319053	45	50	65	35	<20	<20	<20			37	34	39	37
Residential	319054	45	50	65	35	<20	<20	<20			37	33	38	36
Residential	319055	45	50	65	35	<20	<20	<20			38	35	39	37
Residential	319057	45	50	65	38	<20	<20	<20			41	37	42	39
Residential	319058	45	50	65	42	<20	<20	<20			42	38	43	41
Residential	319059	45	50	65	36	<20	<20	<20			39	35	40	37
Residential	319061	45	50	65	34	<20	<20	<20			37	34	39	36
Residential	319062	45	50	65	33	<20	<20	<20			36	33	37	35

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	319064	45	50	65	34	<20	<20	<20			37	34	38	36
Residential	319066	45	50	65	40	<20	<20	<20			44	40	45	42
Residential	319071	45	50	65	34	<20	<20	<20			44	40	45	<20
Residential	319073	45	50	65	34	<20	<20	<20			37	33	38	25
Residential	319076	45	50	65	35	<20	<20	<20			33	30	35	23
Residential	319077	45	50	65	43	<20	<20	<20			50	46	52	48
Residential	319082	45	50	65	31	<20	<20	<20			38	34	39	35
Residential	319088	45	50	65	35	<20	<20	<20			44	40	45	39
Residential	319090	45	50	65	34	<20	<20	<20			42	39	44	36
Residential	319094	45	50	65	31	<20	<20	<20			42	38	43	30
Residential	319098	45	50	65	60	<20	<20	<20			53	49	54	45
Residential	319099	45	50	65	59	<20	<20	<20			54	50	55	43
Residential	319100	45	50	65	47	<20	<20	<20			60	56	61	38
Residential	319101	45	50	65	63	<20	<20	<20			67	63	68	44
Residential	319103	45	50	65	57	<20	<20	<20			64	60	65	44
Residential	319104	45	50	65	66	<20	<20	<20			61	57	62	45
Residential	319111	45	50	65	40	<20	<20	<20			40	36	41	26
Residential	319112	45	50	65	42	<20	<20	<20			43	39	44	42
Residential	319114	45	50	65	43	<20	<20	<20			44	40	45	43
Residential	319117	45	50	65	40	<20	<20	<20			39	35	40	24
Residential	319121	45	50	65	51	<20	<20	<20			71	68	73	<20
Residential	319122	45	50	65	38	<20	<20	<20			38	35	40	<20
Residential	319126	45	50	65	41	<20	<20	<20			44	40	45	<20
Residential	319129	45	50	65	35	<20	<20	<20			35	31	36	<20
Residential	319133	45	50	65	33	<20	<20	<20			40	36	41	33
Residential	319134	45	50	65	35	<20	<20	<20			41	37	42	35
Residential	319135	45	50	65	34	<20	<20	<20			39	36	41	34
Residential	319138	45	50	65	50	<20	<20	<20			58	54	59	30
Residential	319141	45	50	65	47	<20	<20	<20			48	44	49	27
Residential	319143	45	50	65	36	<20	<20	<20			38	34	39	25
Residential	319145	45	50	65	40	<20	<20	<20			42	38	43	25
Residential	319147	45	50	65	37	<20	<20	<20			48	44	49	43
Residential	319150	45	50	65	38	<20	<20	<20			70	67	72	50
Residential	319152	45	50	65	34	<20	<20	<20			35	32	37	31
Residential	319154	45	50	65	55	<20	<20	<20			88	84	89	28
Residential	319157	45	50	65	44	<20	<20	<20			46	42	48	36
Residential	319163	45	50	65	59	<20	<20	<20			63	59	64	59
Residential	319166	45	50	65	48	<20	<20	<20			63	59	64	39
Residential	319167	45	50	65	47	<20	<20	<20			52	48	53	50
Residential	319168	45	50	65	47	<20	<20	<20			50	46	51	46
Residential	319174	45	50	65	30	<20	<20	<20			45	41	46	<20
Residential	319175	45	50	65	30	<20	<20	<20			46	42	47	<20
Residential	319178	45	50	65	30	<20	<20	<20			32	29	33	31
Residential	319180	45	50	65	31	<20	<20	<20			32	29	34	24
Residential	319183	45	50	65	28	<20	<20	20			37	33	38	<20
Residential	319184	45	50	65	39	<20	<20	<20			40	36	41	26
Residential	319185	45	50	65	39	<20	<20	<20			48	44	50	47
Residential	319186	45	50	65	32	<20	<20	<20			40	36	41	34
Residential	319190	45	50	65	36	<20	<20	<20			39	35	40	27

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	319191	45	50	65	60	<20	<20	<20			69	65	70	24
Residential	319193	45	50	65	57	<20	<20	<20			66	62	67	24
Residential	319194	45	50	65	47	<20	<20	<20			45	41	46	42
Residential	319199	45	50	65	40	<20	<20	<20			67	63	68	63
Residential	319200	45	50	65	54	<20	<20	<20			62	58	63	25
Residential	319201	45	50	65	39	<20	<20	<20			39	35	40	23
Residential	319203	45	50	65	38	<20	<20	<20			40	37	42	25
Residential	319205	45	50	65	40	<20	<20	<20			43	39	44	26
Residential	319206	45	50	65	49	<20	<20	<20			55	51	56	44
Residential	319210	45	50	65	<20	<20	<20	<20			37	33	38	21
Residential	319212	45	50	65	<20	<20	<20	<20			36	33	38	21
Residential	319214	45	50	65	44	<20	<20	<20			42	38	43	25
Residential	319215	45	50	65	34	<20	<20	<20			50	46	51	45
Residential	319219	45	50	65	34	<20	<20	<20			50	46	51	34
Residential	319220	45	50	65	33	<20	<20	<20			50	46	51	32
Residential	319224	45	50	65	33	<20	<20	<20			42	38	44	37
Residential	319225	45	50	65	36	<20	<20	<20			43	39	44	38
Residential	319226	45	50	65	38	<20	<20	<20			71	68	73	64
Residential	319228	45	50	65	42	<20	<20	<20			64	60	65	57
Residential	319230	45	50	65	42	<20	<20	<20			42	38	43	38
Residential	319235	45	50	65	40	<20	<20	<20			49	45	50	43
Residential	319239	45	50	65	31	<20	<20	<20			32	29	34	32
Residential	319240	45	50	65	39	<20	<20	<20			43	39	44	40
Residential	319246	45	50	65	37	<20	<20	<20			45	41	46	<20
Residential	319247	45	50	65	40	<20	<20	<20			54	50	55	45
Residential	319248	45	50	65	33	<20	<20	<20			34	31	36	31
Residential	319249	45	50	65	31	<20	<20	<20			33	30	35	30
Residential	319254	45	50	65	36	<20	<20	<20			35	32	36	33
Residential	319261	45	50	65	36	<20	<20	<20			43	39	44	27
Residential	319263	45	50	65	45	<20	<20	<20			48	44	49	38
Residential	319267	45	50	65	37	<20	<20	<20			45	41	46	27
Residential	319269	45	50	65	34	<20	<20	<20			42	38	43	28
Residential	319275	45	50	65	42	<20	<20	<20			42	38	44	<20
Residential	319276	45	50	65	38	<20	<20	<20			39	35	40	<20
Residential	319279	45	50	65	49	<20	<20	<20			55	51	56	48
Residential	319280	45	50	65	40	<20	<20	<20			41	37	42	38
Residential	319283	45	50	65	41	<20	<20	<20			40	36	41	<20
Residential	319285	45	50	65	33	<20	<20	<20			48	44	49	33
Residential	319287	45	50	65	34	<20	<20	<20			47	44	49	32
Residential	319289	45	50	65	33	<20	<20	<20			44	40	45	30
Residential	319292	45	50	65	45	<20	<20	<20			50	46	52	39
Residential	319293	45	50	65	49	<20	<20	<20			57	53	58	44
Residential	319294	45	50	65	51	<20	<20	<20			70	66	71	49
Residential	319297	45	50	65	63	<20	<20	<20			80	76	81	35
Residential	319298	45	50	65	53	<20	<20	<20			51	47	52	51
Residential	319299	45	50	65	54	<20	<20	<20			61	57	62	43
Residential	319300	45	50	65	53	<20	<20	<20			61	57	62	37
Residential	319302	45	50	65	64	<20	<20	<20			65	62	67	62
Residential	319303	45	50	65	43	<20	<20	<20			41	37	42	23

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	319308	45	50	65	34	<20	<20	<20			37	33	38	32
Residential	319309	45	50	65	33	<20	<20	<20			35	31	36	30
Residential	319312	45	50	65	37	<20	<20	<20			40	36	41	38
Residential	319315	45	50	65	38	<20	<20	<20			54	50	55	32
Residential	319317	45	50	65	29	<20	<20	<20			40	36	41	20
Residential	319318	45	50	65	30	<20	<20	<20			40	36	41	21
Residential	319320	45	50	65	37	<20	<20	<20			39	35	40	34
Residential	319323	45	50	65	36	<20	<20	<20			37	33	38	30
Residential	319327	45	50	65	42	<20	<20	<20			53	49	54	35
Residential	319328	45	50	65	42	<20	<20	<20			52	48	53	35
Residential	319331	45	50	65	51	<20	<20	<20			51	47	53	29
Residential	319332	45	50	65	35	<20	<20	<20			39	36	41	33
Residential	319336	45	50	65	40	<20	<20	<20			41	37	42	28
Residential	319341	45	50	65	48	<20	<20	<20			48	44	50	31
Residential	319344	45	50	65	39	<20	<20	<20			39	35	40	24
Residential	319349	45	50	65	53	<20	<20	<20			54	50	55	23
Residential	319352	45	50	65	34	<20	<20	<20			37	34	38	32
Residential	319356	45	50	65	43	<20	<20	<20			48	44	49	41
Residential	319357	45	50	65	42	<20	<20	<20			46	42	48	36
Residential	319362	45	50	65	38	<20	<20	<20			62	58	63	58
Residential	319363	45	50	65	45	<20	<20	<20			61	57	62	58
Residential	319364	45	50	65	45	<20	<20	<20			59	55	60	56
Residential	319365	45	50	65	43	<20	<20	<20			50	46	52	48
Residential	319374	45	50	65	45	<20	<20	<20			48	44	49	44
Residential	319388	45	50	65	<20	<20	<20	<20			37	34	39	21
Residential	319396	45	50	65	33	<20	<20	<20			37	33	38	<20
Residential	319400	45	50	65	32	<20	<20	<20			38	35	40	<20
Residential	319409	45	50	65	35	<20	<20	<20			36	33	37	<20
Residential	319420	45	50	65	39	<20	<20	30			37	34	39	<20
Residential	319452	45	50	65	31	<20	<20	<20			61	57	62	<20
Residential	319464	45	50	65	41	<20	<20	<20			42	38	44	26
Residential	319465	45	50	65	38	<20	<20	<20			58	54	59	32
Residential	319481	45	50	65	58	<20	<20	<20			66	62	67	62
Residential	319483	45	50	65	46	<20	<20	<20			54	50	56	52
Residential	319485	45	50	65	62	<20	<20	<20			68	64	69	52
Residential	319490	45	50	65	42	<20	<20	<20			42	39	44	36
Residential	319491	45	50	65	37	<20	<20	<20			37	33	38	36
Residential	319493	45	50	65	46	<20	<20	<20			51	47	52	37
Residential	319495	45	50	65	39	<20	<20	<20			38	35	39	24
Residential	319500	45	50	65	41	<20	<20	<20			41	38	43	40
Residential	319505	45	50	65	44	<20	<20	<20			43	39	44	41
Residential	319570	45	50	65	34	<20	<20	<20			32	29	34	31
Residential	319605	45	50	65	57	<20	<20	<20			62	58	63	26
Residential	319629	45	50	65	37	<20	<20	<20			39	35	40	38
Residential	319630	45	50	65	34	<20	<20	<20			39	36	41	38
Residential	319640	45	50	65	46	<20	<20	<20			47	43	48	29
Residential	319652	45	50	65	66	<20	<20	<20			64	60	65	59
Residential	319653	45	50	65	35	<20	<20	<20			44	40	45	39
Residential	319659	45	50	65	31	<20	<20	<20			33	29	34	31

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	319682	45	50	65	31	<20	<20	<20			36	32	37	32
Residential	319693	45	50	65	34	<20	<20	<20			35	32	37	32
Residential	319704	45	50	65	34	<20	<20	<20			37	34	38	36
Residential	319707	45	50	65	38	<20	<20	<20			42	38	43	40
Residential	319718	45	50	65	44	<20	<20	<20			56	52	57	54
Residential	319732	45	50	65	43	<20	<20	<20			41	37	42	23
Residential	319733	45	50	65	52	<20	<20	<20			62	59	64	25
Residential	319734	45	50	65	59	<20	<20	<20			59	55	60	56
Residential	319736	45	50	65	40	<20	<20	<20			51	47	53	38
Residential	319737	45	50	65	37	<20	<20	<20			40	36	41	37
Residential	319748	45	50	65	36	<20	<20	<20			35	32	37	23
Residential	319752	45	50	65	34	<20	<20	<20			35	32	37	35
Residential	319767	45	50	65	42	<20	<20	<20			41	37	42	39
Residential	319803	45	50	65	39	<20	<20	<20			49	45	50	43
Residential	319816	45	50	65	34	<20	<20	<20			36	33	38	29
Residential	319848	45	50	65	65	<20	<20	<20			72	69	74	31
Residential	320062	45	50	65	38	<20	<20	<20			50	46	51	47
Residential	320180	45	50	65	47	<20	<20	<20			53	49	54	40
Residential	320263	45	50	65	23	<20	<20	<20			40	36	41	21
Residential	320346	45	50	65	33	<20	<20	<20			36	33	38	35
Residential	320350	45	50	65	41	<20	<20	<20			42	38	43	29
Residential	320355	45	50	65	33	<20	<20	<20			36	32	37	35
Residential	320356	45	50	65	34	<20	<20	<20			39	35	40	37
Residential	320357	45	50	65	32	<20	<20	<20			38	35	39	37
Residential	320358	45	50	65	42	<20	<20	<20			58	54	59	36
Residential	320359	45	50	65	34	<20	<20	<20			41	38	43	39
Residential	320360	45	50	65	34	<20	<20	<20			46	42	47	44
Residential	320363	45	50	65	47	<20	<20	<20			51	47	52	44
Residential	320364	45	50	65	39	<20	<20	<20			48	44	49	35
Residential	320365	45	50	65	49	<20	<20	<20			49	45	50	29
Residential	320366	45	50	65	42	<20	<20	<20			39	36	41	37
Residential	320376	45	50	65	55	<20	<20	<20			57	52	58	26
Residential	320432	45	50	65	36	<20	<20	<20			44	40	45	<20
Residential	320433	45	50	65	37	<20	<20	<20			45	41	46	<20
Residential	320434	45	50	65	36	<20	<20	<20			44	40	45	<20
Residential	320435	45	50	65	41	<20	<20	<20			46	42	47	<20
Residential	320436	45	50	65	39	<20	<20	<20			41	37	43	<20
Residential	320437	45	50	65	44	<20	<20	<20			45	41	47	<20
Residential	320439	45	50	65	42	<20	<20	<20			45	41	46	<20
Residential	320440	45	50	65	27	<20	<20	<20			33	30	35	<20
Residential	320441	45	50	65	40	<20	<20	<20			41	37	42	<20
Residential	320442	45	50	65	45	<20	<20	<20			47	43	48	<20
Residential	320444	45	50	65	45	<20	<20	<20			49	45	51	<20
Residential	320448	45	50	65	43	<20	<20	<20			43	39	44	<20
Residential	320449	45	50	65	47	<20	<20	<20			51	46	52	<20
Residential	320450	45	50	65	36	<20	<20	<20			36	33	38	<20
Residential	320451	45	50	65	32	<20	<20	<20			40	36	41	<20
Residential	320453	45	50	65	33	<20	<20	<20			40	36	41	<20
Residential	320454	45	50	65	32	<20	<20	<20			42	38	43	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320456	45	50	65	43	<20	<20	<20			45	41	46	<20
Residential	320457	45	50	65	42	<20	<20	<20			43	39	45	<20
Residential	320458	45	50	65	31	<20	<20	<20			38	34	40	<20
Residential	320459	45	50	65	42	<20	<20	<20			45	41	47	<20
Residential	320460	45	50	65	39	<20	<20	<20			46	42	47	<20
Residential	320461	45	50	65	45	<20	<20	<20			47	43	48	<20
Residential	320462	45	50	65	35	<20	<20	<20			44	40	45	<20
Residential	320463	45	50	65	33	<20	<20	<20			42	39	44	<20
Residential	320465	45	50	65	43	<20	<20	<20			44	40	46	<20
Residential	320467	45	50	65	32	<20	<20	<20			32	29	34	<20
Residential	320468	45	50	65	34	<20	<20	<20			43	39	44	<20
Residential	320469	45	50	65	43	<20	<20	<20			45	41	46	<20
Residential	320470	45	50	65	38	<20	<20	<20			45	41	46	<20
Residential	320471	45	50	65	43	<20	<20	<20			46	42	47	<20
Residential	320472	45	50	65	48	<20	<20	<20			51	47	52	<20
Residential	320473	45	50	65	41	<20	<20	<20			42	38	44	<20
Residential	320474	45	50	65	42	<20	<20	<20			47	43	48	<20
Residential	320475	45	50	65	45	<20	<20	<20			48	44	49	<20
Residential	320476	45	50	65	42	<20	<20	<20			43	39	44	<20
Residential	320477	45	50	65	46	<20	<20	<20			48	44	50	<20
Residential	320478	45	50	65	43	<20	<20	<20			45	41	46	<20
Residential	320479	45	50	65	42	<20	<20	<20			43	39	45	<20
Residential	320484	45	50	65	45	<20	<20	<20			48	44	50	<20
Residential	320492	45	50	65	34	<20	<20	<20			40	37	42	<20
Residential	320496	45	50	65	42	<20	<20	<20			48	44	49	<20
Residential	320501	45	50	65	35	<20	<20	<20			43	39	44	<20
Residential	320503	45	50	65	28	<20	<20	<20			37	33	39	<20
Residential	320507	45	50	65	37	<20	<20	<20			44	41	46	<20
Residential	320524	45	50	65	44	<20	<20	<20			46	42	47	<20
Residential	320550	45	50	65	47	<20	<20	<20			51	46	52	<20
Residential	320551	45	50	65	35	<20	<20	<20			42	38	43	<20
Residential	320555	45	50	65	38	<20	<20	<20			44	40	45	<20
Residential	320557	45	50	65	57	<20	<20	<20			62	58	63	<20
Residential	320562	45	50	65	41	<20	<20	<20			42	38	43	<20
Residential	320567	45	50	65	31	<20	<20	<20			34	30	36	<20
Residential	320568	45	50	65	41	<20	<20	<20			42	38	43	<20
Residential	320569	45	50	65	28	<20	<20	<20			32	28	33	<20
Residential	320570	45	50	65	41	<20	<20	<20			42	38	43	<20
Residential	320572	45	50	65	44	<20	<20	<20			45	41	46	<20
Residential	320573	45	50	65	42	<20	<20	<20			47	43	48	<20
Residential	320574	45	50	65	34	<20	<20	<20			43	39	44	<20
Residential	320575	45	50	65	32	<20	<20	<20			39	35	40	<20
Residential	320576	45	50	65	34	<20	<20	<20			43	39	44	<20
Residential	320577	45	50	65	35	<20	<20	<20			44	40	45	<20
Residential	320579	45	50	65	37	<20	<20	<20			46	42	47	<20
Residential	320580	45	50	65	40	<20	<20	<20			44	40	45	<20
Residential	320581	45	50	65	56	<20	<20	<20			61	57	62	<20
Residential	320582	45	50	65	36	<20	<20	<20			43	39	44	<20
Residential	320583	45	50	65	34	<20	<20	<20			42	38	44	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320584	45	50	65	48	<20	<20	<20			50	46	51	<20
Residential	320585	45	50	65	33	<20	<20	<20			42	38	43	<20
Residential	320586	45	50	65	31	<20	<20	<20			37	33	38	<20
Residential	320587	45	50	65	42	<20	<20	<20			42	39	44	<20
Residential	320588	45	50	65	43	<20	<20	<20			44	40	45	<20
Residential	320589	45	50	65	44	<20	<20	<20			46	42	47	<20
Residential	320590	45	50	65	43	<20	<20	<20			46	42	47	<20
Residential	320591	45	50	65	35	<20	<20	<20			44	40	45	<20
Residential	320592	45	50	65	44	<20	<20	<20			46	42	47	<20
Residential	320593	45	50	65	44	<20	<20	<20			46	42	48	<20
Residential	320594	45	50	65	40	<20	<20	<20			41	37	42	<20
Residential	320596	45	50	65	35	<20	<20	<20			34	31	36	<20
Residential	320597	45	50	65	44	<20	<20	<20			46	42	47	<20
Residential	320598	45	50	65	48	<20	<20	<20			51	47	52	<20
Residential	320599	45	50	65	48	<20	<20	<20			51	47	52	<20
Residential	320600	45	50	65	34	<20	<20	<20			43	39	45	<20
Residential	320601	45	50	65	44	<20	<20	<20			49	45	50	<20
Residential	320602	45	50	65	43	<20	<20	<20			48	44	49	<20
Residential	320603	45	50	65	41	<20	<20	<20			44	40	45	<20
Residential	320604	45	50	65	41	<20	<20	<20			42	38	43	<20
Residential	320605	45	50	65	39	<20	<20	<20			40	37	42	<20
Residential	320606	45	50	65	45	<20	<20	<20			48	44	49	<20
Residential	320607	45	50	65	28	<20	<20	<20			37	33	39	<20
Residential	320612	45	50	65	37	<20	<20	<20			39	35	40	32
Residential	320645	45	50	65	44	<20	<20	<20			49	45	50	<20
Residential	320646	45	50	65	34	<20	<20	<20			43	40	45	<20
Residential	320647	45	50	65	29	<20	<20	<20			41	37	42	<20
Residential	320658	45	50	65	30	<20	<20	<20			37	33	38	<20
Residential	320661	45	50	65	35	<20	<20	<20			43	39	44	<20
Residential	320665	45	50	65	42	<20	<20	<20			44	40	45	<20
Residential	320669	45	50	65	34	<20	<20	<20			37	33	38	34
Residential	320678	45	50	65	33	<20	<20	<20			39	36	41	35
Residential	320684	45	50	65	27	<20	<20	<20			34	31	36	34
Residential	320685	45	50	65	31	<20	<20	<20			34	30	35	32
Residential	320686	45	50	65	35	<20	<20	<20			44	40	45	30
Residential	320687	45	50	65	36	<20	<20	<20			43	39	44	38
Residential	320688	45	50	65	31	<20	<20	<20			36	32	37	35
Residential	320689	45	50	65	30	<20	<20	<20			38	34	39	34
Residential	320691	45	50	65	32	<20	<20	<20			41	37	42	35
Residential	320692	45	50	65	30	<20	<20	<20			40	36	41	34
Residential	320695	45	50	65	30	<20	<20	<20			36	33	38	34
Residential	320698	45	50	65	31	<20	<20	<20			35	32	37	34
Residential	320700	45	50	65	31	<20	<20	<20			39	35	40	33
Residential	320704	45	50	65	28	<20	<20	<20			35	32	37	34
Residential	320707	45	50	65	31	<20	<20	<20			38	34	39	35
Residential	320708	45	50	65	36	<20	<20	<20			41	37	42	38
Residential	320709	45	50	65	27	<20	<20	<20			37	34	38	33
Residential	320710	45	50	65	31	<20	<20	<20			36	32	37	35
Residential	320713	45	50	65	30	<20	<20	<20			35	31	36	34

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320714	45	50	65	32	<20	<20	<20			40	36	42	34
Residential	320716	45	50	65	40	<20	<20	<20			38	34	39	<20
Residential	320718	45	50	65	33	<20	<20	<20			40	36	41	35
Residential	320719	45	50	65	31	<20	<20	<20			34	31	36	33
Residential	320720	45	50	65	26	<20	<20	<20			33	30	35	32
Residential	320721	45	50	65	30	<20	<20	<20			33	30	35	32
Residential	320722	45	50	65	30	<20	<20	<20			35	31	36	34
Residential	320724	45	50	65	36	<20	<20	<20			42	39	44	42
Residential	320728	45	50	65	30	<20	<20	<20			35	32	37	34
Residential	320733	45	50	65	28	<20	<20	<20			35	32	37	34
Residential	320734	45	50	65	31	<20	<20	<20			35	31	36	33
Residential	320739	45	50	65	32	<20	<20	<20			37	34	39	36
Residential	320740	45	50	65	39	<20	<20	<20			47	43	48	45
Residential	320742	45	50	65	30	<20	<20	<20			34	30	35	33
Residential	320743	45	50	65	33	<20	<20	<20			41	37	42	34
Residential	320744	45	50	65	31	<20	<20	<20			36	33	38	35
Residential	320753	45	50	65	30	<20	<20	<20			34	30	35	32
Residential	320754	45	50	65	31	<20	<20	<20			38	34	39	33
Residential	320769	45	50	65	31	<20	<20	<20			38	34	39	33
Residential	320841	45	50	65	36	<20	<20	<20			35	31	36	23
Residential	320844	45	50	65	44	<20	<20	<20			43	39	45	25
Residential	320845	45	50	65	36	<20	<20	<20			35	32	36	23
Residential	320846	45	50	65	43	<20	<20	<20			43	39	44	25
Residential	320850	45	50	65	43	<20	<20	<20			41	37	42	28
Residential	320851	45	50	65	43	<20	<20	<20			40	36	42	28
Residential	320854	45	50	65	38	<20	<20	<20			35	31	36	27
Residential	320855	45	50	65	38	<20	<20	<20			35	32	37	29
Residential	320856	45	50	65	45	<20	<20	<20			50	46	52	26
Residential	320857	45	50	65	47	<20	<20	<20			51	46	52	24
Residential	320859	45	50	65	52	<20	<20	<20			58	55	60	25
Residential	320860	45	50	65	54	<20	<20	<20			61	57	62	25
Residential	320863	45	50	65	40	<20	<20	<20			42	38	43	24
Residential	320864	45	50	65	38	<20	<20	<20			35	32	37	29
Residential	320867	45	50	65	43	<20	<20	<20			45	41	46	24
Residential	320870	45	50	65	44	<20	<20	<20			44	40	45	25
Residential	320871	45	50	65	43	<20	<20	<20			43	39	44	25
Residential	320872	45	50	65	38	<20	<20	<20			38	34	39	22
Residential	320873	45	50	65	44	<20	<20	<20			44	40	45	26
Residential	320874	45	50	65	43	<20	<20	<20			43	39	44	26
Residential	320877	45	50	65	35	<20	<20	<20			33	30	35	22
Residential	320878	45	50	65	35	<20	<20	<20			34	30	35	22
Residential	320885	45	50	65	38	<20	<20	<20			38	34	39	24
Residential	320886	45	50	65	41	<20	<20	<20			39	35	40	29
Residential	320889	45	50	65	59	<20	<20	<20			64	60	65	27
Residential	320890	45	50	65	55	<20	<20	<20			61	57	63	24
Residential	320891	45	50	65	36	<20	<20	<20			36	32	37	23
Residential	320892	45	50	65	35	<20	<20	<20			36	33	38	23
Residential	320895	45	50	65	47	<20	<20	<20			51	47	52	24
Residential	320896	45	50	65	43	<20	<20	<20			43	39	44	27

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320897	45	50	65	43	<20	<20	<20			43	39	44	28
Residential	320899	45	50	65	42	<20	<20	<20			42	38	43	26
Residential	320900	45	50	65	36	<20	<20	<20			35	31	36	23
Residential	320934	45	50	65	40	<20	<20	<20			37	34	39	27
Residential	320937	45	50	65	50	<20	<20	<20			51	47	52	28
Residential	320939	45	50	65	45	<20	<20	<20			49	45	51	24
Residential	320940	45	50	65	38	<20	<20	<20			36	33	38	23
Residential	320941	45	50	65	36	<20	<20	<20			35	32	37	24
Residential	320942	45	50	65	38	<20	<20	<20			37	33	38	23
Residential	320943	45	50	65	39	<20	<20	<20			37	34	39	22
Residential	320946	45	50	65	46	<20	<20	<20			50	46	51	24
Residential	320947	45	50	65	42	<20	<20	<20			41	37	42	27
Residential	320951	45	50	65	54	<20	<20	<20			62	58	63	25
Residential	320954	45	50	65	41	<20	<20	<20			41	37	42	25
Residential	320955	45	50	65	41	<20	<20	<20			39	35	40	27
Residential	320957	45	50	65	38	<20	<20	<20			37	33	38	24
Residential	320977	45	50	65	56	<20	<20	<20			62	58	63	26
Residential	320980	45	50	65	40	<20	<20	<20			43	39	45	25
Residential	320985	45	50	65	43	<20	<20	<20			46	42	47	26
Residential	320986	45	50	65	43	<20	<20	<20			44	40	45	26
Residential	320987	45	50	65	38	<20	<20	<20			36	32	37	25
Residential	320988	45	50	65	37	<20	<20	<20			34	31	35	27
Residential	320990	45	50	65	35	<20	<20	<20			54	50	55	47
Residential	320991	45	50	65	36	<20	<20	<20			33	30	35	23
Residential	320992	45	50	65	36	<20	<20	<20			34	30	35	23
Residential	320994	45	50	65	36	<20	<20	<20			34	30	35	24
Residential	320996	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	320997	45	50	65	42	<20	<20	<20			42	38	43	25
Residential	321001	45	50	65	43	<20	<20	<20			45	41	46	24
Residential	321016	45	50	65	38	<20	<20	<20			48	44	49	44
Residential	321017	45	50	65	43	<20	<20	<20			42	39	44	25
Residential	321019	45	50	65	49	<20	<20	<20			50	46	52	27
Residential	321020	45	50	65	54	<20	<20	<20			55	51	57	28
Residential	321021	45	50	65	43	<20	<20	<20			42	38	43	24
Residential	321024	45	50	65	42	<20	<20	<20			41	37	42	26
Residential	321025	45	50	65	41	<20	<20	<20			40	36	41	25
Residential	321031	45	50	65	43	<20	<20	<20			44	41	46	25
Residential	321032	45	50	65	50	<20	<20	<20			56	52	58	24
Residential	321033	45	50	65	53	<20	<20	<20			59	55	60	25
Residential	321034	45	50	65	49	<20	<20	<20			56	52	57	25
Residential	321061	45	50	65	39	<20	<20	<20			36	32	37	28
Residential	321062	45	50	65	38	<20	<20	<20			35	32	37	26
Residential	321064	45	50	65	39	<20	<20	<20			37	33	38	25
Residential	321065	45	50	65	38	<20	<20	<20			36	32	37	27
Residential	321066	45	50	65	36	<20	<20	<20			34	30	35	23
Residential	321067	45	50	65	38	<20	<20	<20			37	33	38	23
Residential	321068	45	50	65	37	<20	<20	<20			37	34	39	23
Residential	321069	45	50	65	36	<20	<20	<20			36	32	37	22
Residential	321073	45	50	65	45	<20	<20	<20			44	40	45	24

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321075	45	50	65	46	<20	<20	<20			48	44	49	27
Residential	321077	45	50	65	37	<20	<20	<20			34	31	36	25
Residential	321098	45	50	65	42	<20	<20	<20			43	39	44	27
Residential	321099	45	50	65	42	<20	<20	<20			42	39	44	27
Residential	321100	45	50	65	42	<20	<20	<20			42	38	43	27
Residential	321104	45	50	65	45	<20	<20	<20			44	41	46	25
Residential	321106	45	50	65	35	<20	<20	<20			32	29	34	26
Residential	321111	45	50	65	42	<20	<20	<20			41	37	42	25
Residential	321118	45	50	65	47	<20	<20	<20			46	42	47	25
Residential	321123	45	50	65	35	<20	<20	<20			34	31	36	22
Residential	321124	45	50	65	48	<20	<20	<20			50	46	51	26
Residential	321135	45	50	65	42	<20	<20	<20			43	39	44	23
Residential	321141	45	50	65	49	<20	<20	<20			51	47	53	28
Residential	321142	45	50	65	35	<20	<20	<20			34	30	35	22
Residential	321144	45	50	65	37	<20	<20	<20			38	34	39	23
Residential	321147	45	50	65	47	<20	<20	<20			53	49	54	24
Residential	321155	45	50	65	37	<20	<20	<20			34	30	35	29
Residential	321182	45	50	65	37	<20	<20	<20			37	33	38	22
Residential	321184	45	50	65	66	<20	<20	<20			68	64	69	<20
Residential	321185	45	50	65	35	<20	<20	<20			35	31	36	22
Residential	321186	45	50	65	36	<20	<20	<20			33	30	35	22
Residential	321192	45	50	65	45	<20	<20	<20			44	40	46	26
Residential	321197	45	50	65	39	<20	<20	<20			47	43	49	36
Residential	321198	45	50	65	44	<20	<20	<20			50	46	52	28
Residential	321199	45	50	65	39	<20	<20	<20			37	33	39	23
Residential	321200	45	50	65	39	<20	<20	<20			38	34	39	24
Residential	321205	45	50	65	35	<20	<20	<20			34	31	36	24
Residential	321206	45	50	65	36	<20	<20	<20			34	30	35	26
Residential	321207	45	50	65	37	<20	<20	<20			34	31	36	25
Residential	321208	45	50	65	36	<20	<20	<20			33	30	35	24
Residential	321209	45	50	65	36	<20	<20	<20			34	30	35	26
Residential	321210	45	50	65	42	<20	<20	<20			43	39	44	24
Residential	321214	45	50	65	36	<20	<20	<20			36	32	37	23
Residential	321231	45	50	65	32	<20	<20	<20			33	30	35	24
Residential	321233	45	50	65	42	<20	<20	<20			41	37	42	25
Residential	321237	45	50	65	41	<20	<20	<20			39	35	40	27
Residential	321241	45	50	65	35	<20	<20	<20			33	30	35	23
Residential	321246	45	50	65	46	<20	<20	<20			51	47	52	27
Residential	321247	45	50	65	38	<20	<20	<20			36	32	37	26
Residential	321248	45	50	65	36	<20	<20	<20			35	32	37	22
Residential	321249	45	50	65	49	<20	<20	<20			54	50	55	25
Residential	321250	45	50	65	44	<20	<20	<20			43	39	44	27
Residential	321252	45	50	65	43	<20	<20	<20			42	38	44	24
Residential	321254	45	50	65	43	<20	<20	<20			48	44	49	24
Residential	321256	45	50	65	42	<20	<20	<20			46	42	47	25
Residential	321258	45	50	65	45	<20	<20	<20			46	42	47	25
Residential	321277	45	50	65	37	<20	<20	<20			37	34	39	23
Residential	321281	45	50	65	38	<20	<20	<20			43	39	44	23
Residential	321282	45	50	65	39	<20	<20	<20			40	36	41	24

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321283	45	50	65	38	<20	<20	<20			39	36	41	23
Residential	321284	45	50	65	45	<20	<20	<20			50	46	51	28
Residential	321286	45	50	65	43	<20	<20	<20			47	43	48	26
Residential	321292	45	50	65	44	<20	<20	<20			46	42	48	25
Residential	321294	45	50	65	38	<20	<20	<20			40	36	41	30
Residential	321296	45	50	65	50	<20	<20	<20			52	49	54	25
Residential	321297	45	50	65	49	<20	<20	<20			50	46	52	24
Residential	321299	45	50	65	37	<20	<20	<20			35	32	37	22
Residential	321300	45	50	65	40	<20	<20	<20			38	34	39	26
Residential	321301	45	50	65	37	<20	<20	<20			35	32	37	28
Residential	321303	45	50	65	36	<20	<20	<20			34	30	35	26
Residential	321305	45	50	65	39	<20	<20	<20			39	36	41	23
Residential	321309	45	50	65	35	<20	<20	<20			37	33	38	23
Residential	321332	45	50	65	52	<20	<20	<20			60	56	61	25
Residential	321339	45	50	65	36	<20	<20	<20			34	30	35	26
Residential	321343	45	50	65	34	<20	<20	<20			34	31	36	27
Residential	321344	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	321346	45	50	65	34	<20	<20	<20			32	29	33	21
Residential	321347	45	50	65	35	<20	<20	<20			33	30	35	22
Residential	321352	45	50	65	40	<20	<20	<20			37	33	39	27
Residential	321353	45	50	65	39	<20	<20	<20			37	33	38	27
Residential	321354	45	50	65	43	<20	<20	<20			42	38	43	27
Residential	321356	45	50	65	39	<20	<20	<20			37	34	39	28
Residential	321357	45	50	65	39	<20	<20	<20			38	34	39	28
Residential	321358	45	50	65	38	<20	<20	<20			43	39	44	23
Residential	321370	45	50	65	44	<20	<20	<20			47	43	49	24
Residential	321371	45	50	65	41	<20	<20	<20			41	37	42	26
Residential	321372	45	50	65	44	<20	<20	<20			45	41	46	24
Residential	321373	45	50	65	45	<20	<20	<20			44	40	45	25
Residential	321375	45	50	65	37	<20	<20	<20			35	31	36	25
Residential	321376	45	50	65	37	<20	<20	<20			34	31	36	27
Residential	321379	45	50	65	38	<20	<20	<20			37	33	38	26
Residential	321381	45	50	65	56	<20	<20	<20			59	55	60	37
Residential	321383	45	50	65	43	<20	<20	<20			43	39	44	25
Residential	321385	45	50	65	43	<20	<20	<20			44	40	45	25
Residential	321391	45	50	65	35	<20	<20	<20			33	30	35	25
Residential	321394	45	50	65	43	<20	<20	<20			43	39	44	26
Residential	321417	45	50	65	36	<20	<20	<20			35	31	36	22
Residential	321422	45	50	65	36	<20	<20	<20			34	30	35	26
Residential	321429	45	50	65	52	<20	<20	<20			55	51	56	26
Residential	321431	45	50	65	36	<20	<20	<20			34	31	36	22
Residential	321433	45	50	65	36	<20	<20	<20			34	31	36	22
Residential	321434	45	50	65	36	<20	<20	<20			35	31	36	23
Residential	321435	45	50	65	34	<20	<20	<20			37	33	38	26
Residential	321436	45	50	65	42	<20	<20	<20			41	37	43	26
Residential	321437	45	50	65	36	<20	<20	<20			34	31	35	28
Residential	321438	45	50	65	39	<20	<20	<20			37	33	38	27
Residential	321439	45	50	65	39	<20	<20	<20			37	33	38	26
Residential	321440	45	50	65	44	<20	<20	<20			44	40	45	25

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321448	45	50	65	42	<20	<20	<20			43	39	44	24
Residential	321451	45	50	65	42	<20	<20	<20			41	38	43	25
Residential	321452	45	50	65	43	<20	<20	<20			43	39	44	23
Residential	321457	45	50	65	58	<20	<20	<20			69	66	71	27
Residential	321458	45	50	65	57	<20	<20	<20			69	65	71	27
Residential	321485	45	50	65	37	<20	<20	<20			35	31	36	26
Residential	321486	45	50	65	39	<20	<20	<20			40	37	42	26
Residential	321489	45	50	65	44	<20	<20	<20			47	43	48	25
Residential	321490	45	50	65	42	<20	<20	<20			42	38	43	24
Residential	321491	45	50	65	42	<20	<20	<20			42	38	43	23
Residential	321492	45	50	65	41	<20	<20	<20			44	40	45	23
Residential	321494	45	50	65	34	<20	<20	<20			32	29	33	22
Residential	321496	45	50	65	36	<20	<20	<20			34	30	35	26
Residential	321502	45	50	65	34	<20	<20	<20			32	29	34	24
Residential	321504	45	50	65	47	<20	<20	<20			49	45	51	27
Residential	321533	45	50	65	38	<20	<20	<20			38	34	39	23
Residential	321535	45	50	65	35	<20	<20	<20			33	30	35	26
Residential	321539	45	50	65	54	<20	<20	<20			56	51	57	29
Residential	321540	45	50	65	44	<20	<20	<20			45	41	46	26
Residential	321541	45	50	65	41	<20	<20	<20			42	38	43	24
Residential	321543	45	50	65	37	<20	<20	<20			34	30	35	28
Residential	321544	45	50	65	39	<20	<20	<20			39	36	41	23
Residential	321546	45	50	65	43	<20	<20	<20			46	42	48	25
Residential	321548	45	50	65	49	<20	<20	<20			53	49	54	25
Residential	321549	45	50	65	50	<20	<20	<20			56	52	57	26
Residential	321551	45	50	65	39	<20	<20	<20			37	33	39	27
Residential	321555	45	50	65	49	<20	<20	<20			53	49	54	25
Residential	321561	45	50	65	35	<20	<20	<20			33	30	35	25
Residential	321562	45	50	65	35	<20	<20	<20			33	30	35	26
Residential	321563	45	50	65	42	<20	<20	<20			43	40	45	25
Residential	321564	45	50	65	45	<20	<20	<20			45	41	46	26
Residential	321566	45	50	65	36	<20	<20	<20			33	30	35	22
Residential	321567	45	50	65	39	<20	<20	<20			38	35	40	24
Residential	321568	45	50	65	43	<20	<20	<20			44	40	45	23
Residential	321569	45	50	65	44	<20	<20	<20			47	43	48	24
Residential	321578	45	50	65	36	<20	<20	<20			38	34	39	23
Residential	321581	45	50	65	42	<20	<20	<20			42	38	43	24
Residential	321582	45	50	65	32	<20	<20	<20			32	29	34	23
Residential	321583	45	50	65	36	<20	<20	<20			34	31	36	23
Residential	321584	45	50	65	41	<20	<20	<20			40	36	41	27
Residential	321585	45	50	65	52	<20	<20	<20			55	51	56	26
Residential	321586	45	50	65	38	<20	<20	<20			36	32	37	27
Residential	321587	45	50	65	36	<20	<20	<20			37	33	38	23
Residential	321589	45	50	65	35	<20	<20	<20			33	30	34	23
Residential	321590	45	50	65	35	<20	<20	<20			34	30	35	23
Residential	321605	45	50	65	46	<20	<20	<20			49	45	51	24
Residential	321612	45	50	65	37	<20	<20	<20			36	32	37	24
Residential	321613	45	50	65	38	<20	<20	<20			36	33	38	22
Residential	321618	45	50	65	58	<20	<20	<20			64	60	65	27

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321631	45	50	65	31	<20	<20	<20			36	33	38	35
Residential	321632	45	50	65	32	<20	<20	<20			37	33	38	35
Residential	321633	45	50	65	30	<20	<20	<20			33	30	35	32
Residential	321634	45	50	65	29	<20	<20	<20			36	33	38	33
Residential	321644	45	50	65	32	<20	<20	<20			38	34	39	34
Residential	321645	45	50	65	36	<20	<20	<20			44	40	46	43
Residential	321646	45	50	65	31	<20	<20	<20			33	30	35	33
Residential	321648	45	50	65	30	<20	<20	<20			34	30	35	32
Residential	321650	45	50	65	31	<20	<20	<20			34	30	35	32
Residential	321655	45	50	65	26	<20	<20	<20			32	29	33	31
Residential	321656	45	50	65	31	<20	<20	<20			34	31	36	32
Residential	321657	45	50	65	30	<20	<20	<20			40	36	42	33
Residential	321658	45	50	65	32	<20	<20	<20			35	32	37	34
Residential	321659	45	50	65	33	<20	<20	<20			36	32	37	34
Residential	321660	45	50	65	38	<20	<20	<20			40	36	41	27
Residential	321663	45	50	65	28	<20	<20	<20			34	30	35	32
Residential	321665	45	50	65	31	<20	<20	<20			36	33	38	36
Residential	321666	45	50	65	30	<20	<20	<20			33	30	35	31
Residential	321676	45	50	65	31	<20	<20	<20			39	36	41	36
Residential	321677	45	50	65	31	<20	<20	<20			38	34	40	34
Residential	321678	45	50	65	32	<20	<20	<20			38	35	40	33
Residential	321679	45	50	65	32	<20	<20	<20			39	35	40	34
Residential	321682	45	50	65	31	<20	<20	<20			36	32	37	35
Residential	321687	45	50	65	40	<20	<20	<20			46	42	47	43
Residential	321688	45	50	65	39	<20	<20	<20			47	43	48	46
Residential	321689	45	50	65	37	<20	<20	<20			44	40	45	28
Residential	321690	45	50	65	31	<20	<20	<20			34	30	35	32
Residential	321691	45	50	65	36	<20	<20	<20			41	37	42	27
Residential	321694	45	50	65	31	<20	<20	<20			36	33	38	34
Residential	321695	45	50	65	30	<20	<20	<20			36	33	38	34
Residential	321696	45	50	65	32	<20	<20	<20			36	32	37	34
Residential	321697	45	50	65	31	<20	<20	<20			36	33	38	34
Residential	321698	45	50	65	28	<20	<20	<20			36	33	38	34
Residential	321699	45	50	65	31	<20	<20	<20			34	31	36	33
Residential	321701	45	50	65	34	<20	<20	<20			42	38	43	36
Residential	321702	45	50	65	30	<20	<20	<20			36	32	37	34
Residential	321706	45	50	65	33	<20	<20	<20			41	37	42	35
Residential	321708	45	50	65	41	<20	<20	<20			40	36	41	<20
Residential	321709	45	50	65	29	<20	<20	<20			36	32	37	34
Residential	321715	45	50	65	30	<20	<20	<20			36	32	37	34
Residential	321716	45	50	65	30	<20	<20	<20			36	32	37	34
Residential	321717	45	50	65	31	<20	<20	<20			40	36	41	34
Residential	321718	45	50	65	31	<20	<20	<20			36	33	38	35
Residential	321723	45	50	65	30	<20	<20	<20			33	30	35	32
Residential	321724	45	50	65	31	<20	<20	<20			34	30	35	32
Residential	321725	45	50	65	29	<20	<20	<20			33	30	34	31
Residential	321726	45	50	65	33	<20	<20	<20			39	35	41	35
Residential	321727	45	50	65	32	<20	<20	<20			40	37	42	35
Residential	321733	45	50	65	33	<20	<20	<20			41	37	42	36

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321735	45	50	65	29	<20	<20	<20			35	31	36	34
Residential	321737	45	50	65	33	<20	<20	<20			38	35	40	37
Residential	321740	45	50	65	35	<20	<20	<20			43	39	44	37
Residential	321742	45	50	65	27	<20	<20	<20			34	31	36	32
Residential	321743	45	50	65	35	<20	<20	<20			42	38	44	28
Residential	321747	45	50	65	33	<20	<20	<20			39	35	40	34
Residential	321748	45	50	65	32	<20	<20	<20			40	37	42	37
Residential	321751	45	50	65	29	<20	<20	<20			34	31	35	33
Residential	321752	45	50	65	32	<20	<20	<20			37	34	39	34
Residential	321753	45	50	65	31	<20	<20	<20			33	30	35	32
Residential	321755	45	50	65	38	<20	<20	<20			40	36	41	28
Residential	321756	45	50	65	31	<20	<20	<20			36	33	38	34
Residential	321758	45	50	65	31	<20	<20	<20			38	35	40	33
Residential	321759	45	50	65	32	<20	<20	<20			40	36	42	34
Residential	321760	45	50	65	34	<20	<20	<20			42	38	44	36
Residential	321762	45	50	65	29	<20	<20	<20			36	32	37	34
Residential	321770	45	50	65	37	<20	<20	<20			48	44	49	38
Residential	321789	45	50	65	38	<20	<20	<20			36	32	37	25
Residential	321813	45	50	65	39	<20	<20	<20			36	33	38	28
Residential	321814	45	50	65	34	<20	<20	<20			33	29	34	23
Residential	321819	45	50	65	38	<20	<20	<20			35	32	37	26
Residential	321821	45	50	65	49	<20	<20	<20			52	48	53	25
Residential	321822	45	50	65	40	<20	<20	<20			38	34	39	26
Residential	321842	45	50	65	39	<20	<20	<20			43	39	44	24
Residential	321890	45	50	65	39	<20	<20	<20			36	32	37	28
Residential	321903	45	50	65	38	<20	<20	<20			36	32	37	26
Residential	321904	45	50	65	38	<20	<20	<20			35	32	37	28
Residential	321907	45	50	65	46	<20	<20	<20			48	44	49	27
Residential	321908	45	50	65	41	<20	<20	<20			41	37	42	24
Residential	321909	45	50	65	47	<20	<20	<20			53	49	54	26
Residential	321910	45	50	65	48	<20	<20	<20			50	46	51	31
Residential	321911	45	50	65	37	<20	<20	<20			35	31	36	22
Residential	321915	45	50	65	36	<20	<20	<20			33	30	35	26
Residential	321920	45	50	65	50	<20	<20	<20			57	53	59	26
Residential	321935	45	50	65	35	<20	<20	<20			33	30	35	21
Residential	321936	45	50	65	36	<20	<20	<20			35	32	37	23
Residential	321944	45	50	65	41	<20	<20	<20			41	37	42	26
Residential	321947	45	50	65	41	<20	<20	<20			40	36	41	26
Residential	321955	45	50	65	37	<20	<20	<20			34	31	36	23
Residential	321957	45	50	65	45	<20	<20	<20			46	42	47	26
Residential	321961	45	50	65	41	<20	<20	<20			41	37	42	26
Residential	321963	45	50	65	37	<20	<20	<20			36	33	38	23
Residential	321964	45	50	65	36	<20	<20	<20			35	31	36	22
Residential	321965	45	50	65	39	<20	<20	<20			39	36	41	23
Residential	321968	45	50	65	38	<20	<20	<20			40	36	41	28
Residential	321970	45	50	65	38	<20	<20	<20			36	33	38	25
Residential	321971	45	50	65	38	<20	<20	<20			35	32	37	26
Residential	321973	45	50	65	34	<20	<20	<20			42	38	43	35
Residential	321974	45	50	65	52	<20	<20	<20			57	53	58	24

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321975	45	50	65	57	<20	<20	<20			68	64	69	25
Residential	321976	45	50	65	36	<20	<20	<20			34	30	35	24
Residential	321977	45	50	65	46	<20	<20	<20			47	43	48	27
Residential	321978	45	50	65	40	<20	<20	<20			42	38	44	26
Residential	321979	45	50	65	37	<20	<20	<20			37	33	38	23
Residential	321980	45	50	65	37	<20	<20	<20			35	31	36	27
Residential	321982	45	50	65	54	<20	<20	<20			54	50	55	27
Residential	321987	45	50	65	39	<20	<20	<20			41	37	42	26
Residential	321996	45	50	65	40	<20	<20	<20			38	34	39	26
Residential	321999	45	50	65	44	<20	<20	<20			43	39	44	27
Residential	322005	45	50	65	42	<20	<20	<20			45	41	46	28
Residential	322011	45	50	65	45	<20	<20	<20			47	43	48	25
Residential	322013	45	50	65	45	<20	<20	<20			47	43	48	24
Residential	322021	45	50	65	38	<20	<20	<20			36	33	38	27
Residential	322029	45	50	65	41	<20	<20	<20			49	45	50	45
Residential	322031	45	50	65	38	<20	<20	<20			50	46	52	46
Residential	322032	45	50	65	42	<20	<20	<20			41	37	43	23
Residential	322033	45	50	65	43	<20	<20	<20			44	40	45	23
Residential	322034	45	50	65	45	<20	<20	<20			50	46	52	27
Residential	322036	45	50	65	49	<20	<20	<20			52	48	54	24
Residential	322037	45	50	65	49	<20	<20	<20			56	52	57	24
Residential	322038	45	50	65	40	<20	<20	<20			39	35	40	25
Residential	322039	45	50	65	37	<20	<20	<20			34	30	35	28
Residential	322040	45	50	65	40	<20	<20	<20			39	35	40	25
Residential	322041	45	50	65	46	<20	<20	<20			51	47	52	27
Residential	322042	45	50	65	46	<20	<20	<20			50	46	51	27
Residential	322043	45	50	65	46	<20	<20	<20			48	44	50	24
Residential	322044	45	50	65	52	<20	<20	<20			56	52	58	27
Residential	322046	45	50	65	46	<20	<20	<20			49	45	50	25
Residential	322047	45	50	65	57	<20	<20	<20			63	59	64	24
Residential	322048	45	50	65	49	<20	<20	<20			56	52	57	25
Residential	322049	45	50	65	37	<20	<20	<20			37	34	39	24
Residential	322050	45	50	65	48	<20	<20	<20			50	46	51	26
Residential	322051	45	50	65	36	<20	<20	<20			33	30	35	25
Residential	322052	45	50	65	45	<20	<20	<20			46	42	47	25
Residential	322053	45	50	65	46	<20	<20	<20			46	42	47	28
Residential	322072	45	50	65	42	<20	<20	<20			41	37	42	25
Residential	322073	45	50	65	44	<20	<20	<20			43	39	44	27
Residential	322074	45	50	65	34	<20	<20	<20			32	29	33	21
Residential	322076	45	50	65	43	<20	<20	<20			45	41	46	23
Residential	322077	45	50	65	46	<20	<20	<20			50	46	51	24
Residential	322078	45	50	65	37	<20	<20	<20			36	33	38	22
Residential	322089	45	50	65	35	<20	<20	<20			32	29	34	26
Residential	322096	45	50	65	50	<20	<20	<20			50	46	51	30
Residential	322103	45	50	65	42	<20	<20	<20			43	39	44	25
Residential	322104	45	50	65	47	<20	<20	<20			50	45	51	24
Residential	322111	45	50	65	43	<20	<20	<20			44	40	45	27
Residential	322112	45	50	65	35	<20	<20	<20			33	30	34	23
Residential	322115	45	50	65	54	<20	<20	<20			57	53	58	25

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322116	45	50	65	39	<20	<20	<20			40	36	41	23
Residential	322117	45	50	65	51	<20	<20	<20			60	56	61	24
Residential	322118	45	50	65	36	<20	<20	<20			35	31	36	22
Residential	322119	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	322120	45	50	65	54	<20	<20	<20			52	48	53	49
Residential	322122	45	50	65	41	<20	<20	<20			40	36	41	27
Residential	322123	45	50	65	46	<20	<20	<20			46	42	47	28
Residential	322124	45	50	65	37	<20	<20	<20			35	31	36	24
Residential	322125	45	50	65	53	<20	<20	<20			55	51	56	29
Residential	322127	45	50	65	35	<20	<20	<20			33	30	34	23
Residential	322128	45	50	65	48	<20	<20	<20			50	46	51	27
Residential	322129	45	50	65	38	<20	<20	<20			38	34	39	22
Residential	322130	45	50	65	36	<20	<20	<20			34	30	35	24
Residential	322131	45	50	65	45	<20	<20	<20			50	46	51	29
Residential	322134	45	50	65	57	<20	<20	<20			64	61	66	25
Residential	322135	45	50	65	57	<20	<20	<20			63	59	64	26
Residential	322136	45	50	65	53	<20	<20	<20			63	59	64	25
Residential	322139	45	50	65	53	<20	<20	<20			57	53	58	25
Residential	322140	45	50	65	41	<20	<20	<20			40	36	41	26
Residential	322142	45	50	65	44	<20	<20	<20			49	45	50	25
Residential	322145	45	50	65	39	<20	<20	<20			37	33	38	31
Residential	322153	45	50	65	46	<20	<20	<20			49	45	50	24
Residential	322156	45	50	65	42	<20	<20	<20			42	39	44	25
Residential	322166	45	50	65	42	<20	<20	<20			47	43	48	24
Residential	322169	45	50	65	38	<20	<20	<20			36	32	37	26
Residential	322170	45	50	65	36	<20	<20	<20			34	31	36	28
Residential	322173	45	50	65	36	<20	<20	<20			34	31	35	22
Residential	322180	45	50	65	37	<20	<20	<20			34	31	36	26
Residential	322190	45	50	65	43	<20	<20	<20			42	38	43	24
Residential	322192	45	50	65	41	<20	<20	<20			47	43	49	26
Residential	322194	45	50	65	46	<20	<20	<20			51	47	52	28
Residential	322195	45	50	65	55	<20	<20	<20			60	56	61	57
Residential	322197	45	50	65	36	<20	<20	<20			33	30	34	25
Residential	322198	45	50	65	39	<20	<20	<20			38	35	40	23
Residential	322199	45	50	65	38	<20	<20	<20			36	33	38	25
Residential	322202	45	50	65	40	<20	<20	<20			38	35	40	28
Residential	322204	45	50	65	32	<20	<20	<20			31	28	33	21
Residential	322205	45	50	65	38	<20	<20	<20			35	32	37	27
Residential	322207	45	50	65	43	<20	<20	<20			42	38	43	28
Residential	322208	45	50	65	43	<20	<20	<20			43	39	44	26
Residential	322214	45	50	65	51	<20	<20	<20			51	47	52	28
Residential	322215	45	50	65	41	<20	<20	<20			39	35	40	26
Residential	322218	45	50	65	42	<20	<20	<20			47	43	48	25
Residential	322233	45	50	65	31	<20	<20	<20			36	33	38	35
Residential	322235	45	50	65	53	<20	<20	<20			54	50	56	29
Residential	322236	45	50	65	36	<20	<20	<20			34	31	36	22
Residential	322237	45	50	65	40	<20	<20	<20			40	37	42	25
Residential	322238	45	50	65	50	<20	<20	<20			49	45	51	25
Residential	322239	45	50	65	41	<20	<20	<20			41	37	42	25

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322241	45	50	65	42	<20	<20	<20			43	39	44	27
Residential	322242	45	50	65	43	<20	<20	<20			48	44	49	26
Residential	322243	45	50	65	39	<20	<20	<20			37	33	39	23
Residential	322244	45	50	65	35	<20	<20	<20			32	29	33	24
Residential	322245	45	50	65	39	<20	<20	<20			40	36	41	22
Residential	322246	45	50	65	54	<20	<20	<20			62	58	63	25
Residential	322249	45	50	65	38	<20	<20	<20			41	37	42	23
Residential	322252	45	50	65	43	<20	<20	<20			45	41	47	31
Residential	322255	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	322258	45	50	65	41	<20	<20	<20			43	39	44	24
Residential	322259	45	50	65	43	<20	<20	<20			44	40	45	24
Residential	322262	45	50	65	35	<20	<20	<20			33	30	34	26
Residential	322267	45	50	65	37	<20	<20	<20			34	30	35	27
Residential	322269	45	50	65	38	<20	<20	<20			36	32	37	25
Residential	322278	45	50	65	45	<20	<20	<20			44	40	45	26
Residential	322281	45	50	65	42	<20	<20	<20			41	37	43	26
Residential	322282	45	50	65	37	<20	<20	<20			35	32	37	22
Residential	322292	45	50	65	39	<20	<20	<20			37	34	39	27
Residential	322293	45	50	65	34	<20	<20	<20			32	29	34	21
Residential	322294	45	50	65	35	<20	<20	<20			33	30	35	22
Residential	322295	45	50	65	40	<20	<20	<20			42	38	43	23
Residential	322296	45	50	65	46	<20	<20	<20			50	46	51	26
Residential	322297	45	50	65	47	<20	<20	<20			48	44	50	26
Residential	322298	45	50	65	43	<20	<20	<20			45	41	46	25
Residential	322302	45	50	65	50	<20	<20	<20			53	49	54	25
Residential	322303	45	50	65	44	<20	<20	<20			46	42	48	25
Residential	322304	45	50	65	38	<20	<20	<20			35	32	37	24
Residential	322305	45	50	65	37	<20	<20	<20			34	31	36	28
Residential	322306	45	50	65	40	<20	<20	<20			40	36	41	25
Residential	322307	45	50	65	39	<20	<20	<20			38	34	39	23
Residential	322308	45	50	65	35	<20	<20	<20			34	30	35	22
Residential	322309	45	50	65	35	<20	<20	<20			52	48	53	49
Residential	322312	45	50	65	35	<20	<20	<20			35	32	36	25
Residential	322318	45	50	65	41	<20	<20	<20			40	36	42	25
Residential	322320	45	50	65	38	<20	<20	<20			37	33	38	23
Residential	322323	45	50	65	36	<20	<20	<20			34	30	35	22
Residential	322328	45	50	65	40	<20	<20	<20			40	37	42	23
Residential	322350	45	50	65	52	<20	<20	<20			54	50	56	26
Residential	322353	45	50	65	38	<20	<20	<20			37	33	38	22
Residential	322354	45	50	65	39	<20	<20	<20			37	33	38	25
Residential	322355	45	50	65	34	<20	<20	<20			32	28	33	27
Residential	322356	45	50	65	44	<20	<20	<20			47	43	48	24
Residential	322358	45	50	65	39	<20	<20	<20			37	33	39	26
Residential	322359	45	50	65	39	<20	<20	<20			38	34	39	22
Residential	322363	45	50	65	36	<20	<20	<20			35	31	36	23
Residential	322365	45	50	65	41	<20	<20	<20			40	36	41	27
Residential	322367	45	50	65	35	<20	<20	<20			32	29	33	22
Residential	322368	45	50	65	36	<20	<20	<20			34	31	36	23
Residential	322371	45	50	65	36	<20	<20	<20			34	30	35	23

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322375	45	50	65	37	<20	<20	<20			36	32	37	24
Residential	322384	45	50	65	43	<20	<20	<20			43	39	44	25
Residential	322386	45	50	65	43	<20	<20	<20			42	38	44	27
Residential	322389	45	50	65	42	<20	<20	<20			41	37	42	26
Residential	322391	45	50	65	52	<20	<20	<20			56	52	57	35
Residential	322399	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	322420	45	50	65	37	<20	<20	<20			35	31	36	27
Residential	322421	45	50	65	42	<20	<20	<20			41	37	42	27
Residential	322423	45	50	65	45	<20	<20	<20			46	42	48	34
Residential	322425	45	50	65	43	<20	<20	<20			43	39	44	24
Residential	322426	45	50	65	43	<20	<20	<20			40	36	42	28
Residential	322429	45	50	65	65	<20	<20	<20			64	60	65	29
Residential	322430	45	50	65	38	<20	<20	<20			37	33	38	24
Residential	322432	45	50	65	45	<20	<20	<20			47	43	48	31
Residential	322435	45	50	65	50	<20	<20	<20			57	53	58	26
Residential	322436	45	50	65	41	<20	<20	<20			42	38	43	23
Residential	322439	45	50	65	42	<20	<20	<20			40	36	41	29
Residential	322440	45	50	65	43	<20	<20	<20			43	39	44	27
Residential	322443	45	50	65	39	<20	<20	<20			42	39	44	23
Residential	322444	45	50	65	50	<20	<20	<20			50	46	51	27
Residential	322445	45	50	65	41	<20	<20	<20			41	37	42	26
Residential	322446	45	50	65	35	<20	<20	<20			32	29	34	22
Residential	322448	45	50	65	45	<20	<20	<20			46	42	47	26
Residential	322449	45	50	65	44	<20	<20	<20			44	40	45	26
Residential	322450	45	50	65	45	<20	<20	<20			47	43	48	26
Residential	322451	45	50	65	41	<20	<20	<20			39	35	40	25
Residential	322453	45	50	65	57	<20	<20	<20			68	65	70	25
Residential	322456	45	50	65	35	<20	<20	<20			34	30	36	22
Residential	322458	45	50	65	37	<20	<20	<20			36	33	38	23
Residential	322460	45	50	65	45	<20	<20	<20			43	39	44	27
Residential	322462	45	50	65	44	<20	<20	<20			49	45	50	24
Residential	322470	45	50	65	33	<20	<20	<20			32	29	34	23
Residential	322473	45	50	65	45	<20	<20	<20			48	44	50	30
Residential	322478	45	50	65	38	<20	<20	<20			37	33	38	22
Residential	322486	45	50	65	36	<20	<20	<20			33	30	34	27
Residential	322488	45	50	65	43	<20	<20	<20			42	38	43	25
Residential	322489	45	50	65	51	<20	<20	<20			51	47	52	28
Residential	322490	45	50	65	52	<20	<20	<20			54	50	55	26
Residential	322491	45	50	65	42	<20	<20	<20			42	38	43	23
Residential	322492	45	50	65	53	<20	<20	<20			56	52	57	26
Residential	322493	45	50	65	49	<20	<20	<20			55	51	56	27
Residential	322494	45	50	65	55	<20	<20	<20			63	59	64	26
Residential	322495	45	50	65	38	<20	<20	<20			37	34	39	23
Residential	322496	45	50	65	45	<20	<20	<20			49	45	51	25
Residential	322498	45	50	65	40	<20	<20	<20			43	39	45	36
Residential	322500	45	50	65	42	<20	<20	<20			42	38	43	26
Residential	322501	45	50	65	37	<20	<20	<20			35	31	36	26
Residential	322507	45	50	65	42	<20	<20	<20			40	36	41	26
Residential	322511	45	50	65	39	<20	<20	<20			41	37	42	23

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322514	45	50	65	38	<20	<20	<20			38	34	39	23
Residential	322515	45	50	65	43	<20	<20	<20			43	39	44	25
Residential	322518	45	50	65	42	<20	<20	<20			43	39	45	24
Residential	322522	45	50	65	36	<20	<20	<20			34	30	35	22
Residential	322523	45	50	65	36	<20	<20	<20			33	30	35	22
Residential	322525	45	50	65	37	<20	<20	<20			36	32	37	23
Residential	322526	45	50	65	37	<20	<20	<20			35	32	37	22
Residential	322528	45	50	65	44	<20	<20	<20			49	45	51	29
Residential	322529	45	50	65	38	<20	<20	<20			58	54	59	39
Residential	322530	45	50	65	40	<20	<20	<20			43	40	45	23
Residential	322531	45	50	65	38	<20	<20	<20			36	33	38	23
Residential	322532	45	50	65	37	<20	<20	<20			36	33	38	23
Residential	322533	45	50	65	36	<20	<20	<20			34	30	35	23
Residential	322534	45	50	65	36	<20	<20	<20			34	30	35	23
Residential	322542	45	50	65	43	<20	<20	<20			43	39	45	24
Residential	322543	45	50	65	51	<20	<20	<20			52	48	53	30
Residential	322546	45	50	65	34	<20	<20	<20			32	29	34	22
Residential	322547	45	50	65	34	<20	<20	<20			32	29	33	21
Residential	322549	45	50	65	35	<20	<20	<20			32	29	34	25
Residential	322550	45	50	65	44	<20	<20	<20			44	40	45	25
Residential	322551	45	50	65	35	<20	<20	<20			33	29	34	24
Residential	322552	45	50	65	66	<20	<20	<20			70	66	72	34
Residential	322553	45	50	65	40	<20	<20	<20			37	33	38	30
Residential	322554	45	50	65	35	<20	<20	<20			35	31	36	22
Residential	322557	45	50	65	37	<20	<20	<20			36	33	38	24
Residential	322558	45	50	65	38	<20	<20	<20			37	33	39	26
Residential	322559	45	50	65	39	<20	<20	<20			38	34	39	23
Residential	322561	45	50	65	44	<20	<20	<20			44	40	45	24
Residential	322562	45	50	65	46	<20	<20	<20			51	47	53	24
Residential	322566	45	50	65	42	<20	<20	<20			43	39	44	23
Residential	322567	45	50	65	49	<20	<20	<20			54	50	55	27
Residential	322568	45	50	65	39	<20	<20	<20			37	33	38	26
Residential	322569	45	50	65	37	<20	<20	<20			35	31	36	22
Residential	322574	45	50	65	39	<20	<20	<20			37	33	38	25
Residential	322575	45	50	65	42	<20	<20	<20			42	38	43	28
Residential	322577	45	50	65	45	<20	<20	<20			46	42	47	26
Residential	322578	45	50	65	46	<20	<20	<20			46	42	47	25
Residential	322579	45	50	65	36	<20	<20	<20			34	30	35	25
Residential	322581	45	50	65	41	<20	<20	<20			42	39	44	23
Residential	322582	45	50	65	38	<20	<20	<20			35	31	36	26
Residential	322583	45	50	65	43	<20	<20	<20			43	39	44	27
Residential	322584	45	50	65	48	<20	<20	<20			50	46	51	31
Residential	322589	45	50	65	44	<20	<20	<20			47	43	48	25
Residential	322590	45	50	65	40	<20	<20	<20			38	34	39	29
Residential	322592	45	50	65	37	<20	<20	<20			35	32	37	29
Residential	322593	45	50	65	37	<20	<20	<20			35	31	36	26
Residential	322595	45	50	65	34	<20	<20	<20			34	30	35	23
Residential	322597	45	50	65	37	<20	<20	<20			35	31	36	23
Residential	322598	45	50	65	39	<20	<20	<20			37	33	38	27

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322599	45	50	65	39	<20	<20	<20			36	33	38	26
Residential	322600	45	50	65	49	<20	<20	<20			56	52	57	25
Residential	322602	45	50	65	43	<20	<20	<20			43	39	45	25
Residential	322603	45	50	65	45	<20	<20	<20			50	46	51	26
Residential	322605	45	50	65	46	<20	<20	<20			50	46	51	24
Residential	322606	45	50	65	47	<20	<20	<20			48	44	49	25
Residential	322607	45	50	65	35	<20	<20	<20			35	31	36	23
Residential	322608	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	322609	45	50	65	39	<20	<20	<20			37	33	38	26
Residential	322610	45	50	65	39	<20	<20	<20			36	33	38	26
Residential	322615	45	50	65	44	<20	<20	<20			47	43	48	24
Residential	322617	45	50	65	43	<20	<20	<20			47	43	48	24
Residential	322624	45	50	65	50	<20	<20	<20			52	48	53	28
Residential	322625	45	50	65	54	<20	<20	<20			63	59	64	26
Residential	322627	45	50	65	43	<20	<20	<20			41	38	43	24
Residential	322628	45	50	65	45	<20	<20	<20			48	44	49	45
Residential	322629	45	50	65	42	<20	<20	<20			43	39	45	25
Residential	322630	45	50	65	47	<20	<20	<20			47	43	48	27
Residential	322631	45	50	65	41	<20	<20	<20			39	36	41	26
Residential	322635	45	50	65	39	<20	<20	<20			38	35	40	23
Residential	322636	45	50	65	40	<20	<20	<20			40	36	41	26
Residential	322637	45	50	65	42	<20	<20	<20			41	37	43	26
Residential	322638	45	50	65	45	<20	<20	<20			45	41	46	25
Residential	322639	45	50	65	40	<20	<20	<20			38	34	39	28
Residential	322640	45	50	65	43	<20	<20	<20			43	39	44	26
Residential	322643	45	50	65	42	<20	<20	<20			41	37	42	27
Residential	322644	45	50	65	42	<20	<20	<20			41	38	43	26
Residential	322646	45	50	65	49	<20	<20	<20			55	51	56	25
Residential	322648	45	50	65	46	<20	<20	<20			45	41	47	26
Residential	322649	45	50	65	49	<20	<20	<20			52	48	54	26
Residential	322650	45	50	65	43	<20	<20	<20			41	38	43	24
Residential	322651	45	50	65	47	<20	<20	<20			47	43	48	26
Residential	322652	45	50	65	43	<20	<20	<20			42	38	43	27
Residential	322654	45	50	65	41	<20	<20	<20			41	37	42	28
Residential	322656	45	50	65	43	<20	<20	<20			42	38	43	24
Residential	322660	45	50	65	46	<20	<20	<20			52	48	53	28
Residential	322662	45	50	65	35	<20	<20	<20			33	30	35	21
Residential	322663	45	50	65	35	<20	<20	<20			33	30	35	21
Residential	322665	45	50	65	57	<20	<20	<20			60	56	61	30
Residential	322666	45	50	65	42	<20	<20	<20			43	39	44	24
Residential	322668	45	50	65	45	<20	<20	<20			44	40	46	27
Residential	322672	45	50	65	43	<20	<20	<20			44	40	45	24
Residential	322673	45	50	65	42	<20	<20	<20			43	39	44	24
Residential	322679	45	50	65	42	<20	<20	<20			44	40	45	23
Residential	322681	45	50	65	38	<20	<20	<20			36	33	38	25
Residential	322687	45	50	65	43	<20	<20	<20			46	42	48	24
Residential	322714	45	50	65	39	<20	<20	<20			40	36	41	23
Residential	322716	45	50	65	38	<20	<20	<20			39	35	40	23
Residential	322719	45	50	65	40	<20	<20	<20			43	39	44	23

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322720	45	50	65	36	<20	<20	<20			33	30	34	25
Residential	322723	45	50	65	33	<20	<20	<20			34	31	35	22
Residential	322724	45	50	65	37	<20	<20	<20			35	32	37	23
Residential	322725	45	50	65	37	<20	<20	<20			35	31	36	24
Residential	322726	45	50	65	39	<20	<20	<20			35	31	36	29
Residential	322728	45	50	65	40	<20	<20	<20			37	33	38	27
Residential	322729	45	50	65	47	<20	<20	<20			50	46	51	26
Residential	322730	45	50	65	48	<20	<20	<20			51	47	52	26
Residential	322732	45	50	65	46	<20	<20	<20			51	47	52	28
Residential	322733	45	50	65	44	<20	<20	<20			42	38	43	28
Residential	322735	45	50	65	36	<20	<20	<20			36	32	37	24
Residential	322781	45	50	65	44	<20	<20	<20			47	43	48	24
Residential	322784	45	50	65	34	<20	<20	<20			32	29	33	21
Residential	322785	45	50	65	35	<20	<20	<20			32	29	34	23
Residential	322786	45	50	65	49	<20	<20	<20			51	47	53	26
Residential	322787	45	50	65	39	<20	<20	<20			37	34	39	23
Residential	322788	45	50	65	38	<20	<20	<20			37	33	38	22
Residential	322789	45	50	65	39	<20	<20	<20			37	34	39	23
Residential	322791	45	50	65	41	<20	<20	<20			43	39	44	24
Residential	322792	45	50	65	48	<20	<20	<20			54	50	55	25
Residential	322794	45	50	65	49	<20	<20	<20			50	46	51	27
Residential	322798	45	50	65	52	<20	<20	<20			53	49	54	29
Residential	322808	45	50	65	36	<20	<20	<20			46	42	47	32
Residential	322809	45	50	65	34	<20	<20	<20			39	35	41	38
Residential	322810	45	50	65	33	<20	<20	<20			40	36	41	36
Residential	322850	45	50	65	42	<20	<20	<20			39	36	41	27
Residential	322851	45	50	65	41	<20	<20	<20			38	35	40	26
Residential	322852	45	50	65	35	<20	<20	<20			34	30	35	24
Residential	322889	45	50	65	43	<20	<20	<20			40	36	42	29
Residential	322890	45	50	65	35	<20	<20	<20			36	32	37	24
Residential	322894	45	50	65	38	<20	<20	<20			37	33	38	24
Residential	322946	45	50	65	38	<20	<20	<20			35	32	37	26
Residential	322950	45	50	65	39	<20	<20	<20			36	32	37	27
Residential	322996	45	50	65	37	<20	<20	<20			35	31	36	26
Residential	322997	45	50	65	36	<20	<20	<20			33	30	35	25
Residential	323033	45	50	65	38	<20	<20	<20			40	36	42	36
Residential	323037	45	50	65	38	<20	<20	<20			48	44	49	45
Residential	323066	45	50	65	42	<20	<20	<20			45	41	46	25
Residential	323074	45	50	65	35	<20	<20	<20			32	29	33	26
Residential	323100	45	50	65	36	<20	<20	<20			34	30	35	23
Residential	323105	45	50	65	46	<20	<20	<20			50	46	51	26
Residential	323146	45	50	65	36	<20	<20	<20			35	31	36	23
Residential	323147	45	50	65	46	<20	<20	<20			46	42	48	25
Residential	323149	45	50	65	42	<20	<20	<20			43	39	45	26
Residential	323153	45	50	65	37	<20	<20	<20			35	32	37	26
Residential	323154	45	50	65	37	<20	<20	<20			35	32	37	25
Residential	323156	45	50	65	41	<20	<20	<20			39	35	41	27
Residential	323159	45	50	65	47	<20	<20	<20			46	42	47	27
Residential	323221	45	50	65	36	<20	<20	<20			33	30	35	25

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323222	45	50	65	44	<20	<20	<20			44	40	45	25
Residential	323225	45	50	65	36	<20	<20	<20			35	31	36	27
Residential	323226	45	50	65	44	<20	<20	<20			43	39	44	27
Residential	323227	45	50	65	42	<20	<20	<20			41	37	42	26
Residential	323231	45	50	65	38	<20	<20	<20			36	32	37	25
Residential	323234	45	50	65	44	<20	<20	<20			52	48	53	49
Residential	323279	45	50	65	38	<20	<20	<20			38	35	40	22
Residential	323281	45	50	65	42	<20	<20	<20			44	40	45	27
Residential	323282	45	50	65	50	<20	<20	<20			50	46	51	31
Residential	323286	45	50	65	40	<20	<20	<20			40	36	41	29
Residential	323288	45	50	65	37	<20	<20	<20			35	32	37	25
Residential	323290	45	50	65	38	<20	<20	<20			35	32	37	26
Residential	323304	45	50	65	39	<20	<20	<20			37	33	38	26
Residential	323307	45	50	65	39	<20	<20	<20			36	33	38	26
Residential	323308	45	50	65	39	<20	<20	<20			36	32	37	26
Residential	323309	45	50	65	39	<20	<20	<20			37	33	38	28
Residential	323311	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	323312	45	50	65	37	<20	<20	<20			35	31	36	22
Residential	323313	45	50	65	37	<20	<20	<20			35	32	37	24
Residential	323325	45	50	65	35	<20	<20	<20			32	29	34	21
Residential	323340	45	50	65	45	<20	<20	<20			45	41	46	25
Residential	323351	45	50	65	45	<20	<20	<20			45	41	46	26
Residential	323355	45	50	65	41	<20	<20	<20			42	38	43	24
Residential	323356	45	50	65	41	<20	<20	<20			40	36	42	27
Residential	323384	45	50	65	41	<20	<20	<20			41	37	42	25
Residential	323397	45	50	65	48	<20	<20	<20			54	50	55	25
Residential	323399	45	50	65	39	<20	<20	<20			37	34	39	24
Residential	323401	45	50	65	39	<20	<20	<20			37	34	39	23
Residential	323402	45	50	65	38	<20	<20	<20			37	34	39	23
Residential	323403	45	50	65	40	<20	<20	<20			43	39	45	24
Residential	323404	45	50	65	43	<20	<20	<20			41	38	43	24
Residential	323406	45	50	65	54	<20	<20	<20			57	53	59	35
Residential	323407	45	50	65	38	<20	<20	<20			36	32	37	25
Residential	323408	45	50	65	50	<20	<20	<20			54	50	55	26
Residential	323409	45	50	65	41	<20	<20	<20			41	37	42	25
Residential	323411	45	50	65	39	<20	<20	<20			39	35	40	24
Residential	323414	45	50	65	46	<20	<20	<20			53	49	54	25
Residential	323415	45	50	65	51	<20	<20	<20			55	51	57	25
Residential	323416	45	50	65	51	<20	<20	<20			59	55	60	27
Residential	323417	45	50	65	49	<20	<20	<20			54	50	55	25
Residential	323419	45	50	65	50	<20	<20	<20			52	48	53	26
Residential	323420	45	50	65	38	<20	<20	<20			39	35	40	23
Residential	323421	45	50	65	47	<20	<20	<20			53	49	54	26
Residential	323423	45	50	65	43	<20	<20	<20			43	39	45	24
Residential	323424	45	50	65	42	<20	<20	<20			42	38	43	24
Residential	323425	45	50	65	42	<20	<20	<20			41	37	42	26
Residential	323428	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	323429	45	50	65	38	<20	<20	<20			36	33	38	22
Residential	323430	45	50	65	42	<20	<20	<20			42	38	43	26

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323432	45	50	65	42	<20	<20	<20			41	37	42	25
Residential	323435	45	50	65	41	<20	<20	<20			42	38	43	29
Residential	323436	45	50	65	45	<20	<20	<20			48	44	49	27
Residential	323437	45	50	65	35	<20	<20	<20			35	31	36	22
Residential	323438	45	50	65	34	<20	<20	<20			32	29	33	21
Residential	323439	45	50	65	36	<20	<20	<20			34	30	35	22
Residential	323440	45	50	65	37	<20	<20	<20			37	33	38	23
Residential	323441	45	50	65	34	<20	<20	<20			34	31	36	22
Residential	323442	45	50	65	35	<20	<20	<20			33	30	35	22
Residential	323443	45	50	65	39	<20	<20	<20			37	33	38	27
Residential	323444	45	50	65	38	<20	<20	<20			35	32	37	28
Residential	323445	45	50	65	37	<20	<20	<20			35	31	36	29
Residential	323446	45	50	65	44	<20	<20	<20			46	42	47	24
Residential	323447	45	50	65	34	<20	<20	<20			32	29	34	22
Residential	323449	45	50	65	55	<20	<20	<20			58	54	59	28
Residential	323452	45	50	65	43	<20	<20	<20			52	48	53	48
Residential	323453	45	50	65	46	<20	<20	<20			53	49	54	27
Residential	323456	45	50	65	36	<20	<20	<20			34	30	35	24
Residential	323457	45	50	65	36	<20	<20	<20			34	31	36	24
Residential	323458	45	50	65	56	<20	<20	<20			64	60	65	25
Residential	323459	45	50	65	40	<20	<20	<20			38	35	40	29
Residential	323461	45	50	65	54	<20	<20	<20			60	56	61	25
Residential	323462	45	50	65	43	<20	<20	<20			43	39	44	23
Residential	323463	45	50	65	42	<20	<20	<20			45	41	46	25
Residential	323464	45	50	65	46	<20	<20	<20			49	45	50	25
Residential	323465	45	50	65	43	<20	<20	<20			48	44	49	24
Residential	323466	45	50	65	45	<20	<20	<20			51	46	52	28
Residential	323467	45	50	65	42	<20	<20	<20			41	37	42	26
Residential	323468	45	50	65	35	<20	<20	<20			32	29	34	23
Residential	323469	45	50	65	46	<20	<20	<20			50	46	51	29
Residential	323470	45	50	65	38	<20	<20	<20			36	32	37	26
Residential	323472	45	50	65	35	<20	<20	<20			32	29	34	24
Residential	323473	45	50	65	32	<20	<20	<20			32	28	33	24
Residential	323474	45	50	65	37	<20	<20	<20			34	31	35	26
Residential	323475	45	50	65	37	<20	<20	<20			35	32	37	24
Residential	323476	45	50	65	43	<20	<20	<20			50	46	51	26
Residential	323478	45	50	65	40	<20	<20	<20			38	34	39	27
Residential	323480	45	50	65	44	<20	<20	<20			46	42	48	25
Residential	323485	45	50	65	35	<20	<20	<20			45	41	46	39
Residential	323487	45	50	65	39	<20	<20	<20			40	37	42	23
Residential	323488	45	50	65	39	<20	<20	<20			43	39	44	23
Residential	323489	45	50	65	36	<20	<20	<20			33	30	35	26
Residential	323490	45	50	65	36	<20	<20	<20			33	30	35	25
Residential	323491	45	50	65	41	<20	<20	<20			41	37	42	26
Residential	323492	45	50	65	41	<20	<20	<20			38	34	40	27
Residential	323493	45	50	65	36	<20	<20	<20			34	31	36	22
Residential	323494	45	50	65	35	<20	<20	<20			34	30	35	22
Residential	323495	45	50	65	35	<20	<20	<20			34	30	35	22
Residential	323496	45	50	65	35	<20	<20	<20			34	31	36	26

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323497	45	50	65	37	<20	<20	<20			34	31	36	28
Residential	323499	45	50	65	35	<20	<20	<20			34	30	35	26
Residential	323500	45	50	65	36	<20	<20	<20			34	31	35	26
Residential	323501	45	50	65	38	<20	<20	<20			37	34	39	23
Residential	323502	45	50	65	45	<20	<20	<20			42	39	44	25
Residential	323503	45	50	65	52	<20	<20	<20			53	49	54	28
Residential	323504	45	50	65	52	<20	<20	<20			53	49	54	26
Residential	323505	45	50	65	35	<20	<20	<20			39	35	40	36
Residential	323507	45	50	65	37	<20	<20	<20			34	31	36	28
Residential	323508	45	50	65	43	<20	<20	<20			45	41	46	29
Residential	323510	45	50	65	47	<20	<20	<20			50	46	51	26
Residential	323511	45	50	65	43	<20	<20	<20			48	44	50	27
Residential	323512	45	50	65	44	<20	<20	<20			44	40	45	27
Residential	323513	45	50	65	44	<20	<20	<20			47	43	48	25
Residential	323515	45	50	65	38	<20	<20	<20			36	33	38	23
Residential	323517	45	50	65	36	<20	<20	<20			34	30	35	24
Residential	323518	45	50	65	36	<20	<20	<20			35	31	36	27
Residential	323519	45	50	65	35	<20	<20	<20			33	30	35	22
Residential	323520	45	50	65	35	<20	<20	<20			32	29	34	21
Residential	323522	45	50	65	44	<20	<20	<20			50	46	51	24
Residential	323523	45	50	65	40	<20	<20	<20			43	39	44	24
Residential	323524	45	50	65	41	<20	<20	<20			43	39	44	23
Residential	323525	45	50	65	56	<20	<20	<20			59	55	60	28
Residential	323526	45	50	65	35	<20	<20	<20			35	31	36	22
Residential	323527	45	50	65	37	<20	<20	<20			35	32	37	23
Residential	323528	45	50	65	46	<20	<20	<20			46	42	47	25
Residential	323529	45	50	65	43	<20	<20	<20			42	38	43	25
Residential	323530	45	50	65	46	<20	<20	<20			46	42	47	28
Residential	323531	45	50	65	39	<20	<20	<20			41	37	42	23
Residential	323533	45	50	65	43	<20	<20	<20			43	39	44	25
Residential	323535	45	50	65	39	<20	<20	<20			37	33	38	27
Residential	323536	45	50	65	42	<20	<20	<20			41	37	43	27
Residential	323539	45	50	65	38	<20	<20	<20			40	36	41	25
Residential	323541	45	50	65	38	<20	<20	<20			37	33	38	25
Residential	323543	45	50	65	44	<20	<20	<20			48	44	49	27
Residential	323544	45	50	65	38	<20	<20	<20			36	33	38	28
Residential	323545	45	50	65	38	<20	<20	<20			36	32	37	26
Residential	323546	45	50	65	37	<20	<20	<20			34	31	36	25
Residential	323547	45	50	65	37	<20	<20	<20			34	30	35	25
Residential	323548	45	50	65	37	<20	<20	<20			34	31	36	26
Residential	323549	45	50	65	52	<20	<20	<20			56	52	57	28
Residential	323550	45	50	65	37	<20	<20	<20			34	30	35	27
Residential	323551	45	50	65	36	<20	<20	<20			33	30	35	27
Residential	323552	45	50	65	35	<20	<20	<20			33	30	34	26
Residential	323553	45	50	65	39	<20	<20	<20			38	34	40	23
Residential	323554	45	50	65	37	<20	<20	<20			35	31	36	26
Residential	323555	45	50	65	42	<20	<20	<20			41	37	42	26
Residential	323556	45	50	65	49	<20	<20	<20			51	47	52	27
Residential	323557	45	50	65	49	<20	<20	<20			52	48	53	27

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323558	45	50	65	43	<20	<20	<20			42	38	44	25
Residential	323559	45	50	65	44	<20	<20	<20			43	39	44	26
Residential	323560	45	50	65	52	<20	<20	<20			53	49	54	27
Residential	323561	45	50	65	45	<20	<20	<20			44	41	46	25
Residential	323562	45	50	65	42	<20	<20	<20			44	40	46	24
Residential	323564	45	50	65	54	<20	<20	<20			61	57	62	28
Residential	323565	45	50	65	42	<20	<20	<20			39	36	41	29
Residential	323566	45	50	65	35	<20	<20	<20			34	30	35	22
Residential	323567	45	50	65	35	<20	<20	<20			33	29	34	23
Residential	323568	45	50	65	44	<20	<20	<20			46	42	47	25
Residential	323569	45	50	65	54	<20	<20	<20			58	54	59	29
Residential	323570	45	50	65	53	<20	<20	<20			57	53	58	28
Residential	323572	45	50	65	39	<20	<20	<20			42	38	44	23
Residential	323573	45	50	65	38	<20	<20	<20			39	35	40	23
Residential	323574	45	50	65	34	<20	<20	<20			32	29	33	25
Residential	323575	45	50	65	49	<20	<20	<20			51	47	52	30
Residential	323576	45	50	65	50	<20	<20	<20			55	51	56	25
Residential	323577	45	50	65	51	<20	<20	<20			55	51	56	26
Residential	323578	45	50	65	39	<20	<20	<20			42	39	44	23
Residential	323579	45	50	65	34	<20	<20	<20			52	48	53	49
Residential	323580	45	50	65	41	<20	<20	<20			41	37	42	26
Residential	323581	45	50	65	39	<20	<20	<20			39	35	40	23
Residential	323582	45	50	65	35	<20	<20	<20			33	30	35	22
Residential	323583	45	50	65	38	<20	<20	<20			38	35	40	23
Residential	323584	45	50	65	38	<20	<20	<20			37	33	38	23
Residential	323585	45	50	65	37	<20	<20	<20			37	33	38	23
Residential	323586	45	50	65	37	<20	<20	<20			36	32	37	23
Residential	323587	45	50	65	37	<20	<20	<20			35	32	37	22
Residential	323588	45	50	65	36	<20	<20	<20			33	30	34	23
Residential	323589	45	50	65	37	<20	<20	<20			35	32	37	22
Residential	323590	45	50	65	36	<20	<20	<20			35	32	37	23
Residential	323591	45	50	65	37	<20	<20	<20			39	35	41	35
Residential	323592	45	50	65	46	<20	<20	<20			54	50	55	34
Residential	323593	45	50	65	48	<20	<20	<20			48	44	49	27
Residential	323594	45	50	65	48	<20	<20	<20			47	43	48	27
Residential	323595	45	50	65	43	<20	<20	<20			46	42	48	27
Residential	323596	45	50	65	39	<20	<20	<20			40	36	41	23
Residential	323597	45	50	65	45	<20	<20	<20			47	43	48	24
Residential	323598	45	50	65	53	<20	<20	<20			55	51	57	27
Residential	323599	45	50	65	45	<20	<20	<20			44	40	45	25
Residential	323600	45	50	65	45	<20	<20	<20			44	40	46	25
Residential	323601	45	50	65	46	<20	<20	<20			47	43	48	25
Residential	323602	45	50	65	46	<20	<20	<20			47	43	48	25
Residential	323603	45	50	65	44	<20	<20	<20			45	41	46	25
Residential	323605	45	50	65	56	<20	<20	<20			56	52	57	32
Residential	323606	45	50	65	43	<20	<20	<20			47	43	48	24
Residential	323607	45	50	65	43	<20	<20	<20			44	40	45	25
Residential	323609	45	50	65	37	<20	<20	<20			37	33	38	23
Residential	323610	45	50	65	36	<20	<20	<20			36	32	37	25

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323611	45	50	65	36	<20	<20	<20			36	32	37	23
Residential	323612	45	50	65	35	<20	<20	<20			33	29	34	20
Residential	323613	45	50	65	42	<20	<20	<20			41	37	42	25
Residential	323614	45	50	65	37	<20	<20	<20			38	35	40	25
Residential	323615	45	50	65	36	<20	<20	<20			34	30	35	24
Residential	323618	45	50	65	43	<20	<20	<20			40	37	42	27
Residential	323619	45	50	65	42	<20	<20	<20			40	36	41	27
Residential	323620	45	50	65	49	<20	<20	<20			50	46	52	27
Residential	323621	45	50	65	44	<20	<20	<20			43	39	44	25
Residential	323622	45	50	65	51	<20	<20	<20			58	54	59	27
Residential	323623	45	50	65	51	<20	<20	<20			53	49	54	27
Residential	323625	45	50	65	41	<20	<20	<20			43	39	44	23
Residential	323626	45	50	65	41	<20	<20	<20			42	39	44	25
Residential	323627	45	50	65	53	<20	<20	<20			55	51	56	29
Residential	323628	45	50	65	52	<20	<20	<20			54	50	55	28
Residential	323630	45	50	65	36	<20	<20	<20			32	29	34	25
Residential	323631	45	50	65	35	<20	<20	<20			33	29	34	26
Residential	323635	45	50	65	53	<20	<20	<20			56	52	57	26
Residential	323636	45	50	65	53	<20	<20	<20			56	52	57	26
Residential	323638	45	50	65	40	<20	<20	<20			38	34	39	27
Residential	323639	45	50	65	43	<20	<20	<20			43	39	45	27
Residential	323640	45	50	65	44	<20	<20	<20			44	40	45	26
Residential	323641	45	50	65	37	<20	<20	<20			35	31	36	27
Residential	323642	45	50	65	38	<20	<20	<20			36	33	38	23
Residential	323643	45	50	65	35	<20	<20	<20			33	29	34	23
Residential	323644	45	50	65	35	<20	<20	<20			32	29	33	24
Residential	323645	45	50	65	39	<20	<20	<20			39	36	41	27
Residential	323646	45	50	65	39	<20	<20	<20			40	36	41	26
Residential	323647	45	50	65	40	<20	<20	<20			40	36	41	26
Residential	323648	45	50	65	40	<20	<20	<20			40	36	41	26
Residential	323650	45	50	65	41	<20	<20	<20			43	39	44	24
Residential	323651	45	50	65	55	<20	<20	<20			60	56	61	27
Residential	323652	45	50	65	43	<20	<20	<20			45	41	46	24
Residential	323653	45	50	65	42	<20	<20	<20			42	38	43	24
Residential	323654	45	50	65	44	<20	<20	<20			50	46	51	25
Residential	323655	45	50	65	49	<20	<20	<20			53	49	54	25
Residential	323656	45	50	65	48	<20	<20	<20			54	50	55	27
Residential	323658	45	50	65	53	<20	<20	<20			56	52	57	25
Residential	323659	45	50	65	37	<20	<20	<20			34	31	36	24
Residential	323661	45	50	65	34	<20	<20	<20			32	29	34	22
Residential	323662	45	50	65	37	<20	<20	<20			35	31	36	22
Residential	323663	45	50	65	38	<20	<20	<20			36	32	37	22
Residential	323665	45	50	65	34	<20	<20	<20			32	29	34	22
Residential	323666	45	50	65	37	<20	<20	<20			35	31	36	26
Residential	323667	45	50	65	45	<20	<20	<20			45	41	46	28
Residential	323668	45	50	65	42	<20	<20	<20			41	38	43	24
Residential	323669	45	50	65	44	<20	<20	<20			43	39	44	27
Residential	323670	45	50	65	51	<20	<20	<20			53	49	54	28
Residential	323671	45	50	65	48	<20	<20	<20			48	44	49	26

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323672	45	50	65	39	<20	<20	<20			37	33	38	25
Residential	323673	45	50	65	39	<20	<20	<20			37	33	38	26
Residential	323674	45	50	65	39	<20	<20	<20			38	34	39	26
Residential	323675	45	50	65	45	<20	<20	<20			44	40	45	26
Residential	323676	45	50	65	44	<20	<20	<20			44	40	45	26
Residential	323678	45	50	65	55	<20	<20	<20			66	62	67	26
Residential	323680	45	50	65	57	<20	<20	<20			68	64	69	25
Residential	323681	45	50	65	43	<20	<20	<20			44	40	45	26
Residential	323682	45	50	65	35	<20	<20	<20			32	29	34	23
Residential	323683	45	50	65	53	<20	<20	<20			55	51	56	28
Residential	323685	45	50	65	35	<20	<20	<20			33	30	34	22
Residential	323686	45	50	65	36	<20	<20	<20			35	31	36	22
Residential	323687	45	50	65	36	<20	<20	<20			34	31	36	22
Residential	323688	45	50	65	36	<20	<20	<20			34	31	36	22
Residential	323689	45	50	65	34	<20	<20	<20			32	29	33	21
Residential	323690	45	50	65	34	<20	<20	<20			32	29	34	22
Residential	323691	45	50	65	35	<20	<20	<20			32	29	34	23
Residential	323693	45	50	65	35	<20	<20	<20			34	30	35	22
Residential	323694	45	50	65	36	<20	<20	<20			34	31	36	23
Residential	323695	45	50	65	42	<20	<20	<20			42	38	43	26
Residential	323696	45	50	65	45	<20	<20	<20			44	40	45	28
Residential	323697	45	50	65	39	<20	<20	<20			38	34	40	24
Residential	323698	45	50	65	43	<20	<20	<20			46	42	47	24
Residential	323699	45	50	65	43	<20	<20	<20			48	44	49	25
Residential	323700	45	50	65	39	<20	<20	<20			38	34	39	23
Residential	323701	45	50	65	39	<20	<20	<20			38	34	39	23
Residential	323702	45	50	65	44	<20	<20	<20			48	44	49	27
Residential	323703	45	50	65	48	<20	<20	<20			50	46	51	25
Residential	323704	45	50	65	39	<20	<20	<20			38	34	39	22
Residential	323705	45	50	65	40	<20	<20	<20			41	37	43	24
Residential	323706	45	50	65	35	<20	<20	<20			33	30	35	24
Residential	323708	45	50	65	37	<20	<20	<20			34	31	36	26
Residential	323709	45	50	65	32	<20	<20	<20			33	29	34	28
Residential	323710	45	50	65	57	<20	<20	<20			62	58	63	27
Residential	323711	45	50	65	52	<20	<20	<20			61	58	63	25
Residential	323712	45	50	65	39	<20	<20	<20			40	36	41	23
Residential	323713	45	50	65	36	<20	<20	<20			35	31	36	22
Residential	323714	45	50	65	51	<20	<20	<20			58	54	60	25
Residential	323716	45	50	65	37	<20	<20	<20			36	32	37	27
Residential	323717	45	50	65	38	<20	<20	<20			36	32	37	27
Residential	323718	45	50	65	37	<20	<20	<20			35	31	36	26
Residential	323720	45	50	65	55	<20	<20	<20			67	63	68	27
Residential	323722	45	50	65	57	<20	<20	<20			66	62	67	26
Residential	323723	45	50	65	35	<20	<20	<20			32	29	34	26
Residential	323724	45	50	65	35	<20	<20	<20			32	29	34	27
Residential	323726	45	50	65	38	<20	<20	<20			35	31	36	25
Residential	323727	45	50	65	38	<20	<20	<20			36	32	37	24
Residential	323728	45	50	65	37	<20	<20	<20			34	31	36	28
Residential	323729	45	50	65	36	<20	<20	<20			34	31	35	26

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323730	45	50	65	39	<20	<20	<20			37	33	38	22
Residential	323731	45	50	65	37	<20	<20	<20			35	31	36	26
Residential	323732	45	50	65	38	<20	<20	<20			37	34	39	23
Residential	323733	45	50	65	37	<20	<20	<20			38	34	39	23
Residential	323734	45	50	65	37	<20	<20	<20			37	33	39	23
Residential	323735	45	50	65	40	<20	<20	<20			40	36	41	24
Residential	323736	45	50	65	38	<20	<20	<20			37	33	38	22
Residential	323737	45	50	65	39	<20	<20	<20			37	33	38	25
Residential	323738	45	50	65	47	<20	<20	<20			51	47	52	48
Residential	323739	45	50	65	35	<20	<20	<20			33	30	34	24
Residential	323740	45	50	65	36	<20	<20	<20			33	30	34	25
Residential	323741	45	50	65	37	<20	<20	<20			35	31	36	29
Residential	323742	45	50	65	44	<20	<20	<20			43	39	45	28
Residential	323743	45	50	65	43	<20	<20	<20			42	39	44	28
Residential	323744	45	50	65	44	<20	<20	<20			43	40	45	25
Residential	323745	45	50	65	50	<20	<20	<20			62	59	64	25
Residential	323746	45	50	65	52	<20	<20	<20			61	57	62	27
Residential	323747	45	50	65	36	<20	<20	<20			34	30	35	22
Residential	323748	45	50	65	49	<20	<20	<20			53	49	54	25
Residential	323749	45	50	65	37	<20	<20	<20			35	31	36	27
Residential	323750	45	50	65	36	<20	<20	<20			34	30	36	23
Residential	323751	45	50	65	37	<20	<20	<20			36	33	38	24
Residential	323752	45	50	65	36	<20	<20	<20			34	30	35	24
Residential	323754	45	50	65	42	<20	<20	<20			45	41	46	24
Residential	323756	45	50	65	43	<20	<20	<20			48	44	49	27
Residential	323757	45	50	65	44	<20	<20	<20			45	41	47	24
Residential	323758	45	50	65	44	<20	<20	<20			45	41	46	24
Residential	323759	45	50	65	44	<20	<20	<20			50	46	51	25
Residential	323760	45	50	65	47	<20	<20	<20			51	47	52	24
Residential	323761	45	50	65	47	<20	<20	<20			50	46	51	25
Residential	323762	45	50	65	42	<20	<20	<20			40	36	41	27
Residential	323763	45	50	65	38	<20	<20	<20			36	32	37	22
Residential	323767	45	50	65	45	<20	<20	<20			44	41	46	27
Residential	323768	45	50	65	45	<20	<20	<20			44	40	46	27
Residential	323769	45	50	65	41	<20	<20	<20			39	35	40	28
Residential	323770	45	50	65	49	<20	<20	<20			50	46	51	29
Residential	323771	45	50	65	47	<20	<20	<20			50	46	51	30
Residential	323772	45	50	65	35	<20	<20	<20			34	31	36	23
Residential	323773	45	50	65	42	<20	<20	<20			39	36	41	28
Residential	323774	45	50	65	35	<20	<20	<20			34	31	36	22
Residential	323775	45	50	65	35	<20	<20	<20			34	30	35	22
Residential	323777	45	50	65	38	<20	<20	<20			36	32	37	25
Residential	323778	45	50	65	37	<20	<20	<20			34	31	36	23
Residential	323780	45	50	65	52	<20	<20	<20			64	60	66	26
Residential	323782	45	50	65	41	<20	<20	<20			40	36	41	30
Residential	323783	45	50	65	42	<20	<20	<20			40	36	41	29
Residential	323784	45	50	65	36	<20	<20	<20			34	31	36	25
Residential	323785	45	50	65	37	<20	<20	<20			37	33	38	23
Residential	323786	45	50	65	50	<20	<20	<20			51	47	52	27

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323788	45	50	65	47	<20	<20	<20			46	42	48	26
Residential	323789	45	50	65	49	<20	<20	<20			53	49	55	27
Residential	323790	45	50	65	39	<20	<20	<20			39	35	40	23
Residential	323791	45	50	65	48	<20	<20	<20			51	47	53	25
Residential	323792	45	50	65	45	<20	<20	<20			47	43	48	25
Residential	323793	45	50	65	38	<20	<20	<20			36	32	37	25
Residential	323794	45	50	65	40	<20	<20	<20			38	35	40	27
Residential	323795	45	50	65	44	<20	<20	<20			50	46	51	28
Residential	323796	45	50	65	63	<20	<20	<20			63	59	64	28
Residential	323797	45	50	65	51	<20	<20	<20			52	48	53	28
Residential	323798	45	50	65	55	<20	<20	<20			57	53	59	26
Residential	323799	45	50	65	39	<20	<20	<20			37	33	38	24
Residential	323800	45	50	65	38	<20	<20	<20			37	33	38	22
Residential	323801	45	50	65	48	<20	<20	<20			50	46	51	26
Residential	323802	45	50	65	36	<20	<20	<20			33	29	34	25
Residential	323803	45	50	65	50	<20	<20	<20			50	46	51	33
Residential	323804	45	50	65	61	<20	<20	<20			62	58	63	29
Residential	323805	45	50	65	46	<20	<20	<20			50	46	51	28
Residential	323806	45	50	65	46	<20	<20	<20			51	47	52	29
Residential	323808	45	50	65	43	<20	<20	<20			49	45	50	24
Residential	323809	45	50	65	52	<20	<20	<20			53	49	54	26
Residential	323811	45	50	65	36	<20	<20	<20			35	31	36	24
Residential	323812	45	50	65	35	<20	<20	<20			33	30	35	22
Residential	323813	45	50	65	36	<20	<20	<20			34	31	36	23
Residential	323815	45	50	65	39	<20	<20	<20			35	32	37	28
Residential	323816	45	50	65	39	<20	<20	<20			36	32	37	30
Residential	323817	45	50	65	44	<20	<20	<20			44	40	45	25
Residential	323818	45	50	65	41	<20	<20	<20			42	38	43	23
Residential	323819	45	50	65	55	<20	<20	<20			60	56	62	25
Residential	323823	45	50	65	51	<20	<20	<20			53	49	54	31
Residential	323824	45	50	65	35	<20	<20	<20			32	29	34	21
Residential	323825	45	50	65	46	<20	<20	<20			44	40	45	28
Residential	323828	45	50	65	35	<20	<20	<20			32	29	34	21
Residential	323829	45	50	65	40	<20	<20	<20			38	34	39	27
Residential	323830	45	50	65	44	<20	<20	<20			47	43	49	25
Residential	323831	45	50	65	48	<20	<20	<20			50	46	51	25
Residential	323832	45	50	65	52	<20	<20	<20			55	51	56	27
Residential	323833	45	50	65	49	<20	<20	<20			51	47	52	25
Residential	323834	45	50	65	40	<20	<20	<20			36	33	38	26
Residential	323835	45	50	65	45	<20	<20	<20			43	40	45	28
Residential	323836	45	50	65	44	<20	<20	<20			43	39	44	28
Residential	323837	45	50	65	35	<20	<20	<20			33	29	34	22
Residential	323838	45	50	65	35	<20	<20	<20			33	30	35	21
Residential	323839	45	50	65	38	<20	<20	<20			36	33	38	23
Residential	323840	45	50	65	38	<20	<20	<20			36	33	38	22
Residential	323841	45	50	65	40	<20	<20	<20			37	33	38	26
Residential	323843	45	50	65	40	<20	<20	<20			38	34	40	28
Residential	323844	45	50	65	53	<20	<20	<20			59	55	61	24
Residential	323845	45	50	65	49	<20	<20	<20			53	49	54	27

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323846	45	50	65	54	<20	<20	<20			59	55	60	25
Residential	323847	45	50	65	53	<20	<20	<20			56	52	57	24
Residential	323848	45	50	65	53	<20	<20	<20			56	52	58	25
Residential	323849	45	50	65	41	<20	<20	<20			38	34	39	26
Residential	323850	45	50	65	41	<20	<20	<20			39	35	40	27
Residential	323851	45	50	65	42	<20	<20	<20			42	38	43	25
Residential	323852	45	50	65	43	<20	<20	<20			43	39	44	23
Residential	323853	45	50	65	44	<20	<20	<20			44	40	45	24
Residential	323854	45	50	65	69	<20	<20	<20			79	75	81	29
Residential	323856	45	50	65	39	<20	<20	<20			40	36	41	24
Residential	323857	45	50	65	47	<20	<20	<20			47	43	48	25
Residential	323862	45	50	65	41	<20	<20	<20			42	38	43	24
Residential	323866	45	50	65	43	<20	<20	<20			52	48	53	25
Residential	323867	45	50	65	51	<20	<20	<20			59	55	60	25
Residential	323868	45	50	65	55	<20	<20	<20			62	58	64	26
Residential	323871	45	50	65	40	<20	<20	<20			37	33	38	28
Residential	323872	45	50	65	31	<20	<20	<20			34	31	36	33
Residential	323876	45	50	65	44	<20	<20	<20			51	47	52	33
Residential	323877	45	50	65	39	<20	<20	<20			38	34	39	23
Residential	323878	45	50	65	36	<20	<20	<20			35	31	36	23
Residential	323879	45	50	65	36	<20	<20	<20			34	31	35	22
Residential	323880	45	50	65	36	<20	<20	<20			34	30	35	23
Residential	323882	45	50	65	38	<20	<20	<20			36	33	38	24
Residential	323883	45	50	65	37	<20	<20	<20			36	32	37	25
Residential	323884	45	50	65	42	<20	<20	<20			42	38	44	24
Residential	323885	45	50	65	43	<20	<20	<20			47	43	48	25
Residential	323887	45	50	65	44	<20	<20	<20			50	46	52	26
Residential	323891	45	50	65	37	<20	<20	<20			35	31	37	27
Residential	323893	45	50	65	50	<20	<20	<20			54	50	55	24
Residential	323894	45	50	65	41	<20	<20	<20			44	40	45	23
Residential	323895	45	50	65	44	<20	<20	<20			42	39	44	29
Residential	323896	45	50	65	45	<20	<20	<20			45	41	47	26
Residential	323897	45	50	65	46	<20	<20	<20			48	44	50	26
Residential	323898	45	50	65	41	<20	<20	<20			46	42	47	26
Residential	323899	45	50	65	40	<20	<20	<20			44	40	45	25
Residential	323901	45	50	65	36	<20	<20	<20			35	32	37	22
Residential	323902	45	50	65	36	<20	<20	<20			34	31	36	22
Residential	323903	45	50	65	36	<20	<20	<20			34	31	36	25
Residential	323904	45	50	65	44	<20	<20	<20			45	41	46	26
Residential	323905	45	50	65	42	<20	<20	<20			45	41	46	23
Residential	323906	45	50	65	42	<20	<20	<20			43	39	44	24
Residential	323907	45	50	65	43	<20	<20	<20			44	41	46	25
Residential	323908	45	50	65	45	<20	<20	<20			47	43	48	25
Residential	323909	45	50	65	33	<20	<20	<20			32	29	33	22
Residential	323910	45	50	65	43	<20	<20	<20			45	41	46	23
Residential	323911	45	50	65	43	<20	<20	<20			43	39	44	24
Residential	323912	45	50	65	52	<20	<20	<20			52	48	54	29
Residential	323913	45	50	65	51	<20	<20	<20			52	48	53	28
Residential	323914	45	50	65	51	<20	<20	<20			52	48	53	30

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323915	45	50	65	46	<20	<20	<20			45	41	46	27
Residential	323916	45	50	65	43	<20	<20	<20			44	40	45	26
Residential	323917	45	50	65	39	<20	<20	<20			36	33	38	26
Residential	323918	45	50	65	45	<20	<20	<20			46	42	47	25
Residential	323919	45	50	65	46	<20	<20	<20			46	42	47	26
Residential	323920	45	50	65	45	<20	<20	<20			44	40	45	26
Residential	323921	45	50	65	46	<20	<20	<20			46	42	47	26
Residential	323922	45	50	65	46	<20	<20	<20			46	42	47	26
Residential	323923	45	50	65	44	<20	<20	<20			45	41	46	27
Residential	323925	45	50	65	48	<20	<20	<20			52	48	53	29
Residential	323926	45	50	65	36	<20	<20	<20			35	31	36	23
Residential	323927	45	50	65	49	<20	<20	<20			50	46	51	27
Residential	323928	45	50	65	42	<20	<20	<20			43	39	44	25
Residential	323929	45	50	65	42	<20	<20	<20			43	39	44	24
Residential	323930	45	50	65	52	<20	<20	<20			58	54	59	27
Residential	323931	45	50	65	36	<20	<20	<20			35	31	36	22
Residential	323932	45	50	65	36	<20	<20	<20			34	30	35	22
Residential	323933	45	50	65	37	<20	<20	<20			36	32	37	22
Residential	323934	45	50	65	38	<20	<20	<20			35	31	36	27
Residential	323935	45	50	65	44	<20	<20	<20			43	39	44	27
Residential	323936	45	50	65	44	<20	<20	<20			43	39	44	27
Residential	323937	45	50	65	42	<20	<20	<20			41	37	42	27
Residential	323938	45	50	65	43	<20	<20	<20			43	39	44	26
Residential	323939	45	50	65	40	<20	<20	<20			41	37	42	25
Residential	323940	45	50	65	37	<20	<20	<20			46	42	47	44
Residential	323941	45	50	65	50	<20	<20	<20			51	47	52	27
Residential	323942	45	50	65	36	<20	<20	<20			33	30	35	23
Residential	323943	45	50	65	49	<20	<20	<20			51	47	52	29
Residential	323944	45	50	65	48	<20	<20	<20			51	47	52	27
Residential	323945	45	50	65	47	<20	<20	<20			47	43	48	27
Residential	323946	45	50	65	50	<20	<20	<20			51	47	52	28
Residential	323947	45	50	65	35	<20	<20	<20			32	29	34	26
Residential	324265	45	50	65	37	<20	<20	<20			38	34	39	<20
Residential	324266	45	50	65	44	<20	<20	<20			43	39	44	<20
Residential	324268	45	50	65	42	<20	<20	<20			41	37	42	<20
Residential	324270	45	50	65	45	21	<20	<20			71	67	72	<20
Residential	324274	45	50	65	59	<20	<20	38			61	57	62	<20
Residential	324277	45	50	65	54	<20	<20	<20			55	51	57	25
Residential	324333	45	50	65	62	<20	<20	<20			64	60	65	30
Residential	324347	45	50	65	53	<20	<20	<20			59	55	60	24
Residential	1000000	45	50	65	39	<20	<20	21			44	40	45	<20
Residential	1000001	45	50	65	32	<20	<20	21			36	33	37	<20
Residential	2004625	45	50	65	46	<20	<20	<20			48	44	49	<20
Residential	2004721	45	50	65	57	<20	<20	34			61	57	63	<20
Residential	2007798	45	50	65	36	<20	<20	<20			42	38	43	40
Residential	2007851	45	50	65	40	<20	<20	<20			37	34	39	<20
Residential	2008222	45	50	65	37	<20	<20	<20			41	38	43	<20
Residential	2008224	45	50	65	59	<20	<20	<20			66	62	68	<20
Residential	2008226	45	50	65	35	<20	<20	<20			36	33	38	35

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	2008227	45	50	65	29	<20	<20	<20			39	35	40	<20
Residential	2008232	45	50	65	43	<20	<20	36			44	40	45	<20
Residential	2008234	45	50	65	37	<20	<20	<20			47	43	48	35
Residential	2008306	45	50	65	37	<20	<20	<20			38	34	39	22
Residential	2008307	45	50	65	37	<20	<20	<20			38	34	39	22
Residential	2008308	45	50	65	38	<20	<20	<20			35	31	36	27
Residential	2008309	45	50	65	36	<20	<20	<20			32	29	34	24
Residential	2008314	45	50	65	43	<20	<20	<20			48	44	49	24
Residential	2008315	45	50	65	44	<20	<20	<20			44	40	45	25
Residential	2008316	45	50	65	52	<20	<20	<20			57	53	58	25
Residential	2008317	45	50	65	55	<20	<20	<20			58	54	59	26
Residential	2008318	45	50	65	61	<20	<20	<20			61	57	62	27
Residential	2008319	45	50	65	62	<20	<20	<20			62	58	63	27
Residential	2008321	45	50	65	40	<20	<20	<20			40	37	42	24
Residential	2008322	45	50	65	38	<20	<20	<20			38	34	40	24
Residential	2008323	45	50	65	32	<20	<20	<20			36	32	37	35
Residential	2008324	45	50	65	31	<20	<20	<20			36	32	37	35
Residential	2008325	45	50	65	33	<20	<20	<20			42	38	43	40
Residential	2008326	45	50	65	31	<20	<20	<20			35	32	37	36
Residential	2008328	45	50	65	33	<20	<20	<20			41	37	42	39
Residential	2008329	45	50	65	45	<20	<20	<20			53	49	54	50
Residential	2008330	45	50	65	32	<20	<20	<20			38	35	40	34
Residential	2008331	45	50	65	27	<20	<20	<20			32	29	33	28
Residential	2008332	45	50	65	27	<20	<20	<20			31	28	32	29
Residential	2008333	45	50	65	34	<20	<20	<20			47	43	48	35
Residential	2008335	45	50	65	42	<20	<20	<20			43	40	45	27
Residential	2008336	45	50	65	43	<20	<20	<20			43	39	44	27
Residential	2008338	45	50	65	37	<20	<20	<20			37	34	38	28
Residential	2008339	45	50	65	36	<20	<20	<20			34	31	35	34
Residential	2008340	45	50	65	45	<20	<20	<20			59	56	60	44
Residential	2008341	45	50	65	55	<20	<20	<20			49	45	51	44
Residential	2008342	45	50	65	35	<20	<20	<20			38	34	39	37
Residential	2008343	45	50	65	34	<20	<20	<20			45	41	47	44
Residential	2008344	45	50	65	33	<20	<20	<20			33	30	35	31
Residential	2008346	45	50	65	31	<20	<20	<20			32	29	34	31
Residential	2008347	45	50	65	54	<20	<20	<20			58	54	59	<20
Residential	2008349	45	50	65	38	<20	<20	<20			49	45	50	<20
Residential	2008350	45	50	65	38	<20	<20	<20			38	34	39	<20
Residential	2008351	45	50	65	44	<20	<20	<20			48	44	49	<20
Residential	2008353	45	50	65	36	<20	<20	<20			39	36	41	<20
Residential	2008355	45	50	65	39	<20	<20	<20			44	40	45	<20
Residential	2008357	45	50	65	39	<20	<20	<20			43	40	45	<20
Residential	2008358	45	50	65	32	<20	<20	<20			34	31	36	<20
Residential	2008359	45	50	65	31	<20	<20	<20			33	30	34	<20
Residential	2008360	45	50	65	33	<20	<20	<20			36	32	37	<20
Residential	2008361	45	50	65	32	<20	<20	<20			35	32	36	<20
Residential	2008363	45	50	65	31	<20	<20	<20			35	32	37	<20
Residential	2008364	45	50	65	32	<20	<20	<20			33	30	35	<20
Residential	2008365	45	50	65	32	<20	<20	<20			34	30	35	<20

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	2008366	45	50	65	31	<20	<20	<20			32	29	34	<20
Residential	2008367	45	50	65	29	<20	<20	<20			32	29	34	<20
Residential	2008368	45	50	65	31	<20	<20	<20			32	29	33	<20
Residential	2008369	45	50	65	29	<20	<20	<20			32	29	33	<20
Residential	2008371	45	50	65	30	<20	<20	<20			32	29	33	<20
Residential	2008372	45	50	65	28	<20	<20	<20			31	28	33	<20
Residential	2008373	45	50	65	28	<20	<20	<20			32	28	33	<20
Residential	2008374	45	50	65	29	<20	<20	<20			32	28	33	<20
Residential	2008375	45	50	65	29	<20	<20	<20			31	28	33	<20
Residential	2008376	45	50	65	29	<20	<20	<20			31	28	33	<20
Residential	2008377	45	50	65	30	<20	<20	<20			30	27	32	<20
Residential	2008378	45	50	65	30	<20	<20	<20			31	27	32	<20
Residential	2008379	45	50	65	28	<20	<20	<20			28	25	30	<20
Residential	2008380	45	50	65	24	<20	<20	<20			22	21	24	<20
Residential	2008393	45	50	65	30	<20	<20	<20			34	31	36	35
Residential	2008394	45	50	65	50	<20	<20	<20			51	47	52	28
Residential	2008396	45	50	65	39	<20	<20	<20			38	34	39	26
Residential	2008397	45	50	65	38	<20	<20	<20			37	33	38	24
Residential	2008398	45	50	65	38	<20	<20	<20			37	33	38	24
Residential	2008399	45	50	65	38	<20	<20	<20			36	33	38	23
Residential	2008400	45	50	65	38	<20	<20	<20			37	34	39	26
Residential	2008401	45	50	65	36	<20	<20	<20			37	33	38	24
Residential	2008402	45	50	65	35	<20	<20	<20			37	33	38	23
Residential	2008403	45	50	65	34	<20	<20	<20			37	33	38	23
Residential	2008404	45	50	65	38	<20	<20	<20			38	34	39	26
Residential	2008405	45	50	65	35	<20	<20	<20			37	33	38	24
Residential	2008406	45	50	65	34	<20	<20	<20			37	33	38	24
Residential	2008407	45	50	65	34	<20	<20	<20			36	33	38	24
Residential	2008408	45	50	65	38	<20	<20	<20			38	34	39	27
Residential	2008409	45	50	65	34	<20	<20	<20			37	33	38	25
Residential	2008410	45	50	65	34	<20	<20	<20			37	33	38	24
Residential	2008411	45	50	65	34	<20	<20	<20			36	33	38	24
Residential	2008412	45	50	65	38	<20	<20	<20			37	34	39	27
Residential	2008413	45	50	65	35	<20	<20	<20			37	33	38	26
Residential	2008414	45	50	65	34	<20	<20	<20			37	33	38	26
Residential	2008415	45	50	65	41	<20	<20	<20			44	40	45	<20
Residential	2008417	45	50	65	39	<20	<20	<20			44	40	46	<20
Residential	2008418	45	50	65	36	<20	<20	<20			44	40	45	<20
Residential	2008420	45	50	65	38	<20	<20	<20			45	41	46	<20
Residential	2008421	45	50	65	37	<20	<20	<20			40	37	42	<20
Residential	2008422	45	50	65	34	<20	<20	<20			37	33	38	<20
Residential	2008423	45	50	65	41	<20	<20	<20			42	38	43	26
Residential	2008431	45	50	65	37	<20	<20	<20			37	33	38	22
Residential	2008437	45	50	65	39	<20	<20	<20			51	47	52	34
Residential	2008438	45	50	65	46	<20	<20	<20			48	44	50	30
Residential	2008439	45	50	65	38	<20	<20	<20			39	36	41	30
Sporting Facility	320849			65	40	<20	<20	<20			38	35	40	23
Sporting Facility	321505			65	57	<20	<20	<20			58	54	59	29
Sporting Facility	322502			65	37	<20	<20	<20			35	32	37	24

Receptor Type	Receptor ID	Criteria dB(A)			Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower (long term)	Lower	Upper	Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and mulcher	Scenario 7b Earthworks clearing and grubbing, no dozer and mulcher	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Sporting Facility	322669			65	38	<20	<20	<20			38	34	39	24
Sporting Facility	323881			65	38	<20	<20	<20			36	33	38	23
Sporting Facility	2008430			65	35	<20	<20	<20			32	29	33	24

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Accommodation	254576	50	65	71	51	54	48	41	74	68	74	64	63
Accommodation	261687	50	65	60	39	42	36	31	62	57	65	87	86
Accommodation	261703	50	65	60	31	35	29	26	63	57	65	93	91
Accommodation	316943	50	65	30	37	39	33	29	35	29	35	33	31
Accommodation	317028	50	65	29	35	37	32	28	33	28	34	31	29
Accommodation	321058	50	65	32	38	40	34	29	36	30	37	35	33
Community	254564	52		71	54	56	51	43	74	68	74	86	84
Community	254592	52		71	47	50	44	38	73	68	74	57	56
Community	260123	52		70	46	49	44	37	71	66	72	94	93
Community	261738	52		51	37	40	34	29	54	48	57	50	49
Community	262035	52		54	50	53	48	41	57	51	60	61	60
Community	318994	52		37	22	26	<20	<20	40	35	42	23	21
Community	319762	52		40	21	25	<20	<20	43	38	46	20	<20
Community	320847	52		32	38	41	35	29	36	30	38	35	33
Community	320888	52		31	36	39	33	28	35	29	36	33	31
Community	321378	52		30	34	37	31	27	34	28	35	32	30
Community	321739	52		32	21	25	<20	<20	36	30	37	29	27
Community	321765	52		31	34	37	31	27	35	29	36	33	31
Community	321787	52		29	35	37	31	27	33	27	34	32	31
Community	322109	52		29	35	37	31	27	33	27	34	32	30
Community	322541	52		25	31	34	28	24	30	25	31	28	26
Community	322790	52		61	53	55	50	43	64	58	64	57	56
Community	323481	52		31	36	39	32	28	34	29	36	33	31
Community	323677	52		28	34	36	30	26	33	27	34	30	28
Community	323764	52		31	35	38	31	27	35	29	36	33	31
Community	323776	52		28	34	37	31	26	33	27	34	31	29
Community	323861	52		34	39	42	36	30	38	32	40	36	34
Community	323863	52		34	40	42	36	31	38	32	40	36	35
Community	2008434	52		34	39	42	36	31	38	32	40	36	35
Educational	254515	71		54	48	50	46	39	57	51	60	55	53
Educational	254527	71		55	48	51	45	38	58	52	61	55	53
Educational	261749	73		64	49	52	47	40	66	61	68	58	56
Educational	261795	73		64	51	53	48	41	66	61	68	55	54
Educational	261821	73		60	49	51	46	39	63	58	66	56	54
Educational	261823	73		60	44	47	42	36	63	57	66	54	52
Educational	261831	73		59	46	49	43	38	61	56	63	55	53
Educational	320693	77		33	<20	23	<20	<20	37	31	39	30	27
Educational	320726	77		33	<20	22	<20	<20	37	32	39	32	30
Educational	320741	77		35	21	25	<20	<20	39	34	41	33	32
Educational	320763	77		33	<20	24	<20	<20	37	31	38	28	26
Educational	320848	52		29	35	38	32	27	33	28	35	32	30
Educational	320893	52		28	33	36	30	25	32	26	33	30	28
Educational	320894	52		29	35	38	32	27	34	28	35	32	31
Educational	320958	52		27	27	30	26	23	32	26	32	28	26
Educational	321057	81		34	33	36	31	27	38	33	40	36	34
Educational	321060	81		35	37	40	34	29	39	33	40	37	35

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Educational	321289	81		34	30	33	27	23	39	33	40	36	35
Educational	321588	81		35	37	40	33	28	39	34	41	37	35
Educational	321643	77		36	22	26	22	21	40	34	41	36	35
Educational	321670	77		34	21	25	<20	21	38	32	39	36	34
Educational	321774	52		30	35	37	32	27	35	29	36	32	30
Educational	321913	52		29	35	37	31	27	33	27	34	31	29
Educational	322099	81		24	28	32	26	23	30	24	29	27	25
Educational	322113	52		29	30	33	28	24	33	27	34	30	29
Educational	322378	52		27	30	33	27	23	32	26	32	28	26
Educational	322379	52		27	33	36	29	25	32	26	33	30	28
Educational	322428	52		27	33	35	29	25	32	26	32	29	27
Educational	322576	81		31	37	39	33	28	35	30	37	34	32
Educational	322664	81		29	31	34	28	25	34	28	35	30	28
Educational	322813	77		35	22	26	20	<20	39	33	40	36	34
Educational	322848	52		30	34	37	32	27	35	29	36	32	31
Educational	323514	52		29	34	37	31	26	33	27	34	32	30
Educational	323537	81		29	31	34	27	23	33	27	34	30	28
Educational	323889	81		35	37	40	34	29	39	33	41	37	35
Educational	323890	81		35	37	39	33	28	39	33	40	37	35
Educational	2008433	52		30	36	38	32	28	35	29	36	32	31
Emergency Services	254513	52		52	42	45	42	35	55	49	58	56	55
Emergency Services	260154	52		72	53	56	51	43	75	69	76	88	87
Emergency Services	321427	52		40	43	46	43	36	44	38	46	41	39
Emergency Services	321668	52		33	20	24	<20	<20	37	32	39	34	32
Emergency Services	322165	52		43	46	49	44	36	46	41	49	43	42
Emergency Services	322315	52		32	36	38	33	28	36	30	37	34	32
Emergency Services	322474	52		44	34	36	30	27	47	41	50	51	49
Emergency Services	322658	52		32	37	40	34	29	36	30	38	35	33
Emergency Services	323479	52		30	35	38	32	27	35	29	36	32	30
Emergency Services	323807	52		43	48	50	45	38	46	41	49	45	43
Emergency Services	323874	52		31	36	39	33	28	35	29	36	34	32
Office	254574		65	74	53	55	50	43	77	71	75	84	82
Office	254852		65	36	37	40	34	30	39	34	41	38	37
Office	254858		65	32	36	39	32	29	37	31	38	35	34
Office	256773		65	37	30	33	27	24	41	35	43	<20	<20
Office	256806		65	33	32	35	29	26	37	32	39	21	<20
Office	261287		65	69	35	38	32	29	71	66	68	41	39
Office	261321		65	67	34	36	30	27	69	64	67	42	40
Office	261639		65	60	40	43	37	31	62	57	65	64	63
Office	261890		65	54	43	46	43	36	57	51	60	59	58
Office	320887		65	30	35	38	34	31	35	29	36	32	30
Office	320979		65	37	41	44	38	33	41	36	42	38	36
Office	320981		65	39	42	45	39	33	42	37	44	38	37
Office	321251		65	32	37	40	34	29	36	30	37	35	33
Office	321428		65	30	33	36	31	27	35	29	36	32	31
Office	321459		65	32	37	40	34	29	36	30	37	34	32

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Office	321461		65	31	30	33	27	23	36	30	37	33	31
Office	321463		65	33	39	41	35	33	37	31	38	36	35
Office	321619		65	36	38	41	38	32	40	35	42	35	34
Office	321620		65	29	33	36	30	25	33	28	34	31	29
Office	321812		65	34	38	41	35	30	38	32	38	36	34
Office	321816		65	38	41	44	38	33	42	36	44	38	36
Office	321939		65	37	43	45	39	34	41	35	43	39	37
Office	322010		65	31	37	39	33	28	35	30	37	34	32
Office	322240		65	33	37	40	35	30	38	32	39	36	34
Office	322427		65	34	39	42	36	30	38	33	40	37	35
Office	322441		65	36	40	43	37	32	40	34	42	37	35
Office	322442		65	34	36	39	33	29	38	33	40	34	32
Office	322504		65	42	36	39	33	29	46	40	48	47	45
Office	322505		65	38	41	43	37	32	42	36	44	37	35
Office	322718		65	37	42	45	39	34	41	35	43	39	37
Office	322867		65	31	33	35	29	25	35	29	36	34	32
Office	323410		65	32	38	41	35	29	36	31	38	35	33
Office	323422		65	35	39	42	37	32	39	34	41	36	34
Office	323427		65	39	30	33	27	23	43	37	45	44	42
Office	323431		65	32	38	40	34	29	36	31	38	35	33
Office	323434		65	51	55	58	52	45	53	48	56	53	51
Office	323633		65	32	38	40	34	29	36	30	38	34	32
Office	323634		65	32	37	40	34	28	36	30	37	34	32
Office	323657		65	45	50	52	47	40	48	42	50	47	45
Office	323660		65	29	34	37	31	27	34	28	35	32	30
Parkland	261544		65	65	43	46	40	35	68	62	69	60	58
Parkland	321558		65	32	37	40	34	29	36	30	38	34	32
Parkland	322402		65	37	41	43	38	32	41	35	43	38	36
Parkland	322480		65	32	38	41	35	29	36	30	38	35	33
Parkland	322939		65	36	40	43	37	32	40	35	42	37	35
Parkland	2008440		65	29	34	37	31	27	33	28	34	31	29
Parkland	2008441		65	25	30	33	27	23	30	24	30	27	25
Parkland	2008442		65	29	34	37	31	27	33	27	35	31	29
Parkland	2008443		65	28	33	36	30	26	32	26	33	30	28
Parkland	2008444		65	27	32	36	30	26	32	26	33	30	28
Parkland	2008445		65	52	43	46	44	38	55	49	57	48	46
Parkland	2008446		65	67	44	47	41	35	70	64	70	66	64
Parkland	2008447		65	51	43	46	40	34	53	47	56	53	52
Parkland	2008448		65	45	40	43	37	31	49	43	52	58	56
Parkland	2008449		65	28	34	37	31	28	33	28	34	35	33
Parkland	2008450		65	30	35	38	32	28	34	28	35	33	31
Parkland	2008451		65	32	<20	24	<20	<20	36	30	38	34	32
Residential	254161	50	65	66	<20	<20	<20	<20	69	63	71	71	70
Residential	254164	50	65	72	<20	<20	<20	<20	67	62	69	73	72
Residential	254168	50	65	71	<20	<20	<20	<20	72	66	73	85	83
Residential	254170	50	65	68	<20	<20	<20	<20	69	63	71	76	75

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Residential	254179	50	65	63	<20	<20	<20	<20	65	59	68	69	67
Residential	254181	50	65	61	<20	<20	<20	<20	64	59	67	67	66
Residential	254188	50	65	50	25	28	23	21	52	47	55	43	41
Residential	254193	50	65	49	<20	<20	<20	<20	52	47	56	52	51
Residential	254219	50	65	45	<20	<20	<20	<20	49	43	52	48	46
Residential	254221	50	65	44	23	27	21	21	47	41	50	41	39
Residential	254250	50	65	82	<20	<20	<20	<20	83	77	77	88	86
Residential	254255	50	65	53	<20	<20	<20	<20	56	51	59	56	55
Residential	254261	50	65	31	<20	<20	<20	<20	35	29	36	29	27
Residential	254276	50	65	61	<20	20	<20	<20	64	58	67	69	67
Residential	254282	50	65	41	42	45	42	36	45	39	47	48	46
Residential	254290	50	65	43	45	47	41	35	46	41	49	47	45
Residential	254295	50	65	29	<20	20	<20	<20	33	28	34	32	30
Residential	254300	50	65	45	51	53	48	41	48	42	51	48	47
Residential	254307	50	65	43	44	47	40	34	46	41	49	48	46
Residential	254308	50	65	45	51	53	48	41	49	43	51	52	50
Residential	254312	50	65	41	44	46	41	34	45	39	46	49	47
Residential	254313	50	65	45	50	53	47	40	49	43	52	54	52
Residential	254314	50	65	42	41	44	39	34	46	40	49	50	48
Residential	254315	50	65	45	46	49	45	38	49	43	51	53	52
Residential	254318	50	65	37	29	33	28	25	41	35	43	41	39
Residential	254319	50	65	47	52	54	49	42	50	44	53	54	53
Residential	254320	50	65	46	52	54	49	42	50	44	52	54	52
Residential	254324	50	65	46	51	53	48	41	49	44	52	55	53
Residential	254325	50	65	30	<20	22	<20	<20	34	29	35	33	31
Residential	254332	50	65	47	48	50	44	37	50	44	53	55	54
Residential	254336	50	65	30	<20	23	<20	<20	34	29	35	33	31
Residential	254340	50	65	49	54	56	51	43	52	46	54	57	56
Residential	254344	50	65	48	53	55	50	43	52	46	54	57	55
Residential	254346	50	65	48	53	55	50	42	51	46	54	56	55
Residential	254347	50	65	62	38	41	35	31	64	59	67	68	66
Residential	254348	50	65	48	52	55	50	42	51	46	54	58	57
Residential	254354	50	65	45	47	50	45	38	48	43	51	51	49
Residential	254357	50	65	46	43	45	42	37	49	43	51	48	46
Residential	254358	50	65	48	46	49	46	39	51	45	54	58	57
Residential	254361	50	65	45	45	48	45	38	48	42	51	51	49
Residential	254365	50	65	45	46	48	44	36	49	43	50	50	49
Residential	254367	50	65	46	43	46	42	36	50	44	53	50	48
Residential	254369	50	65	49	50	52	46	38	52	47	55	61	60
Residential	254370	50	65	45	45	48	42	35	48	42	51	51	49
Residential	254372	50	65	44	43	46	40	35	48	42	50	49	47
Residential	254376	50	65	50	55	57	52	45	53	48	56	62	60
Residential	254377	50	65	46	43	46	40	34	50	44	52	49	48
Residential	254378	50	65	48	45	47	42	38	51	45	54	52	50
Residential	254381	50	65	46	42	45	39	36	50	44	53	51	49
Residential	254383	50	65	47	42	44	39	33	50	45	53	51	50

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Residential	254384	50	65	50	49	51	46	40	53	47	56	64	62
Residential	254387	50	65	44	39	42	36	32	46	40	49	51	49
Residential	254388	50	65	48	48	51	45	38	51	46	54	57	56
Residential	254389	50	65	48	44	47	41	37	51	46	54	49	47
Residential	254391	50	65	47	43	46	40	34	50	45	54	49	47
Residential	254396	50	65	49	52	54	49	42	52	46	55	61	59
Residential	254400	50	65	50	52	55	50	42	53	47	56	64	62
Residential	254401	50	65	47	41	44	38	32	50	45	53	53	51
Residential	254402	50	65	48	49	51	46	39	51	45	53	58	56
Residential	254403	50	65	51	52	54	49	42	54	48	57	66	64
Residential	254404	50	65	47	42	45	39	33	50	45	53	52	51
Residential	254406	50	65	49	47	49	46	37	50	45	55	55	53
Residential	254408	50	65	47	43	46	40	36	50	44	53	50	48
Residential	254410	50	65	48	43	46	40	34	51	45	54	51	49
Residential	254411	50	65	48	42	45	41	35	51	45	54	51	49
Residential	254412	50	65	52	55	58	53	45	55	49	58	65	64
Residential	254419	50	65	48	42	45	40	35	51	45	54	52	50
Residential	254421	50	65	52	54	57	52	44	55	49	58	69	68
Residential	254422	50	65	49	46	48	43	38	53	47	56	53	51
Residential	254425	50	65	48	43	45	41	35	51	46	55	53	51
Residential	254427	50	65	48	42	45	42	36	51	46	54	53	52
Residential	254431	50	65	49	45	47	44	38	53	47	56	50	48
Residential	254433	50	65	52	53	56	51	43	55	49	58	71	69
Residential	254437	50	65	50	52	55	50	42	53	47	56	67	66
Residential	254438	50	65	49	46	49	46	38	52	46	54	53	51
Residential	254440	50	65	46	46	49	44	39	49	43	54	55	53
Residential	254441	50	65	49	48	51	45	38	53	47	56	65	64
Residential	254442	50	65	49	44	47	41	37	52	47	55	51	50
Residential	254444	50	65	51	48	50	45	38	54	48	58	62	61
Residential	254446	50	65	50	40	43	37	35	53	48	57	57	55
Residential	254448	50	65	51	47	49	44	37	55	49	58	58	56
Residential	254449	50	65	52	47	49	44	37	55	49	58	60	59
Residential	254453	50	65	54	53	55	50	43	57	51	60	84	83
Residential	254456	50	65	50	48	50	45	38	54	48	57	55	53
Residential	254458	50	65	53	54	56	51	43	56	50	59	70	69
Residential	254460	50	65	50	42	44	41	35	53	47	56	56	54
Residential	254462	50	65	52	50	52	47	40	55	50	58	67	65
Residential	254463	50	65	52	51	53	48	41	54	49	57	64	62
Residential	254465	50	65	50	41	44	39	33	53	47	56	57	55
Residential	254468	50	65	50	41	44	39	33	53	47	56	57	56
Residential	254469	50	65	52	46	48	44	37	54	49	58	53	52
Residential	254470	50	65	54	52	55	49	42	57	51	60	63	61
Residential	254476	50	65	57	58	61	56	48	60	54	63	88	86
Residential	254478	50	65	49	41	44	38	32	52	46	55	58	57
Residential	254484	50	65	50	40	43	37	32	53	47	56	61	59
Residential	254486	50	65	51	44	46	40	34	54	49	58	53	51

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Residential	254487	50	65	50	41	43	37	31	53	47	56	59	58
Residential	254490	50	65	53	47	49	44	39	56	51	59	57	56
Residential	254492	50	65	52	44	46	43	37	55	49	58	53	51
Residential	254493	50	65	49	40	43	37	31	52	46	55	62	60
Residential	254494	50	65	54	52	54	49	42	56	51	60	62	60
Residential	254499	50	65	50	41	43	38	34	53	48	57	59	58
Residential	254500	50	65	52	42	45	39	34	55	49	58	54	53
Residential	254501	50	65	50	40	43	37	32	53	47	56	66	65
Residential	254502	50	65	57	56	58	53	45	60	54	62	94	92
Residential	254507	50	65	54	49	51	47	40	57	52	60	58	57
Residential	254508	50	65	56	54	57	52	44	58	53	62	69	68
Residential	254516	50	65	52	42	45	42	36	55	49	58	58	56
Residential	254517	50	65	56	54	56	51	43	59	54	62	65	64
Residential	254521	50	65	52	41	44	41	35	55	49	58	58	57
Residential	254524	50	65	57	52	55	50	42	59	53	62	61	59
Residential	254526	50	65	52	41	44	41	35	55	50	58	59	58
Residential	254529	50	65	52	42	44	39	34	55	49	58	61	59
Residential	254531	50	65	52	42	45	40	34	55	49	58	62	61
Residential	254532	50	65	57	51	54	49	41	59	54	62	59	58
Residential	254533	50	65	57	47	50	44	39	59	53	63	59	58
Residential	254534	50	65	61	56	59	54	46	63	58	66	91	89
Residential	254535	50	65	54	46	48	43	36	57	51	60	55	53
Residential	254536	50	65	60	56	58	53	46	63	58	66	76	75
Residential	254537	50	65	51	42	45	39	34	55	49	58	66	65
Residential	254539	50	65	60	52	55	48	40	63	57	66	71	69
Residential	254540	50	65	61	52	55	50	42	64	58	66	67	65
Residential	254542	50	65	60	47	49	44	38	63	57	66	65	64
Residential	254546	50	65	61	53	56	50	42	63	58	66	65	63
Residential	254549	50	65	61	52	55	50	43	63	58	66	65	63
Residential	254550	50	65	60	53	55	50	43	62	57	66	63	62
Residential	254551	50	65	67	56	59	54	46	70	64	71	85	84
Residential	254558	50	65	71	56	58	53	46	73	67	74	90	88
Residential	254559	50	65	71	56	58	53	45	74	68	74	88	87
Residential	254560	50	65	58	47	50	45	38	61	55	65	56	54
Residential	254562	50	65	72	55	58	52	45	75	70	75	96	94
Residential	254565	50	65	72	55	57	52	44	75	70	75	100	98
Residential	254568	50	65	61	49	52	46	39	63	57	66	53	51
Residential	254571	50	65	61	46	48	43	37	63	58	66	56	55
Residential	254573	50	65	61	48	51	45	39	64	58	66	54	52
Residential	254578	50	65	61	47	49	44	37	64	58	66	59	57
Residential	254587	50	65	61	43	46	40	34	63	58	66	65	64
Residential	254589	50	65	71	47	49	44	37	73	68	74	58	56
Residential	254594	50	65	61	41	43	38	32	64	58	66	72	70
Residential	254595	50	65	72	49	52	46	40	74	69	74	57	55
Residential	254598	50	65	71	48	51	45	39	74	68	74	56	54
Residential	254601	50	65	62	42	45	39	34	65	59	67	70	68

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	254603	50	65	72	48	51	45	39	75	69	74	56	55
Residential	254609	50	65	84	53	55	50	43	83	77	85	74	73
Residential	254612	50	65	68	52	55	50	42	71	65	73	79	78
Residential	254614	50	65	79	49	51	46	39	85	79	84	59	58
Residential	254628	50	65	63	47	50	44	38	66	60	69	58	56
Residential	254635	50	65	65	45	48	42	36	68	63	71	69	68
Residential	254640	50	65	34	31	34	28	25	38	33	40	37	35
Residential	254656	50	65	43	<20	<20	<20	<20	46	40	49	22	20
Residential	254657	50	65	29	<20	<20	<20	<20	34	28	35	34	32
Residential	254661	50	65	58	<20	<20	<20	<20	60	55	62	27	25
Residential	254675	50	65	37	<20	<20	<20	<20	41	35	43	23	21
Residential	254681	50	65	35	<20	<20	<20	<20	39	33	41	26	24
Residential	254682	50	65	34	<20	<20	<20	<20	38	32	40	27	24
Residential	254683	50	65	33	<20	<20	<20	<20	37	32	39	27	25
Residential	254689	50	65	34	<20	<20	<20	<20	38	33	40	27	25
Residential	254690	50	65	34	<20	<20	<20	<20	38	32	40	28	25
Residential	254691	50	65	34	<20	<20	<20	<20	38	33	40	27	25
Residential	254705	50	65	35	<20	<20	<20	<20	39	34	41	40	39
Residential	254714	50	65	37	<20	<20	<20	<20	41	36	44	40	38
Residential	254717	50	65	39	<20	<20	<20	<20	43	37	45	40	39
Residential	254719	50	65	33	23	27	21	<20	37	31	38	31	29
Residential	254720	50	65	33	23	27	21	<20	37	32	39	30	28
Residential	254728	50	65	41	24	27	21	<20	45	39	47	36	34
Residential	254730	50	65	43	24	27	21	<20	46	40	48	36	34
Residential	254731	50	65	37	25	29	23	20	41	35	43	31	29
Residential	254736	50	65	36	26	30	23	21	40	34	42	29	27
Residential	254745	50	65	37	39	42	36	30	41	35	43	29	27
Residential	254747	50	65	38	44	46	41	35	42	36	44	29	27
Residential	254755	50	65	31	35	38	31	28	35	30	37	35	33
Residential	254757	50	65	37	41	44	38	33	41	35	43	37	36
Residential	254762	50	65	32	35	37	31	28	36	30	37	36	34
Residential	254769	50	65	36	39	41	35	31	40	35	43	39	38
Residential	254783	50	65	40	42	45	39	34	44	38	47	40	38
Residential	254787	50	65	53	54	56	51	44	56	50	58	36	34
Residential	254790	50	65	51	51	54	48	41	54	48	56	37	35
Residential	254808	50	65	37	41	44	38	33	40	35	42	40	38
Residential	254810	50	65	29	32	34	31	27	34	28	35	32	30
Residential	254817	50	65	30	32	35	33	29	34	29	35	32	30
Residential	254828	50	65	59	47	49	43	37	62	57	65	64	62
Residential	254837	50	65	30	27	31	24	22	34	29	36	25	22
Residential	254892	50	65	31	30	33	27	23	35	30	37	33	31
Residential	254987	50	65	41	33	36	30	26	44	38	47	35	33
Residential	255054	50	65	36	35	38	32	27	40	34	42	40	38
Residential	255080	50	65	39	35	38	32	32	38	32	40	42	40
Residential	255091	50	65	30	30	33	26	23	35	29	36	33	31
Residential	255093	50	65	30	29	32	25	22	35	29	36	33	31

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	255097	50	65	31	30	33	27	23	36	30	37	34	32
Residential	255114	50	65	30	32	35	29	26	34	29	35	34	32
Residential	255143	50	65	36	30	33	27	23	40	34	42	33	31
Residential	255156	50	65	31	35	38	32	28	35	30	37	34	33
Residential	255158	50	65	31	35	38	32	28	36	30	37	35	33
Residential	255159	50	65	39	37	40	34	29	42	36	44	35	33
Residential	255192	50	65	29	34	37	31	28	34	28	35	33	32
Residential	255220	50	65	29	27	30	25	23	34	28	35	29	27
Residential	255223	50	65	32	32	35	29	26	36	31	38	34	33
Residential	255238	50	65	35	22	26	21	20	39	33	41	36	34
Residential	255240	50	65	36	22	26	21	20	40	34	42	37	35
Residential	255248	50	65	40	45	47	42	36	44	38	46	38	36
Residential	255277	50	65	46	<20	<20	<20	<20	48	42	50	44	42
Residential	255295	50	65	34	<20	<20	<20	<20	38	33	40	38	36
Residential	255307	50	65	31	<20	<20	<20	<20	35	29	36	33	31
Residential	255309	50	65	30	<20	<20	<20	<20	34	29	36	33	31
Residential	255318	50	65	54	49	52	46	40	57	51	59	44	42
Residential	255333	50	65	56	58	61	56	48	59	53	61	39	37
Residential	255336	50	65	47	51	54	49	41	50	44	52	34	33
Residential	255346	50	65	71	43	46	41	35	70	64	68	29	27
Residential	255349	50	65	47	51	54	49	42	50	44	53	41	39
Residential	255350	50	65	60	62	65	61	52	62	57	64	43	41
Residential	255357	50	65	57	60	63	59	51	60	54	62	37	35
Residential	255377	50	65	40	45	48	42	36	43	38	46	42	40
Residential	255387	50	65	45	49	52	46	40	48	43	51	47	46
Residential	255388	50	65	46	49	52	47	40	49	44	52	48	46
Residential	255394	50	65	47	46	49	43	37	50	44	53	45	43
Residential	255395	50	65	34	35	38	32	28	38	32	40	34	32
Residential	255396	50	65	36	40	43	37	32	40	34	42	37	35
Residential	255402	50	65	32	32	35	29	26	36	31	38	34	32
Residential	255406	50	65	30	34	37	31	27	35	29	36	31	29
Residential	255412	50	65	35	35	38	32	28	38	32	40	37	36
Residential	255433	50	65	52	44	47	41	35	55	49	58	52	50
Residential	255453	50	65	41	45	47	42	36	44	39	47	42	40
Residential	255455	50	65	43	46	48	43	36	46	40	48	44	42
Residential	255487	50	65	43	31	34	28	25	47	41	49	45	43
Residential	255511	50	65	59	21	25	23	22	49	43	52	63	61
Residential	255514	50	65	53	20	24	22	21	55	50	58	54	53
Residential	255518	50	65	30	<20	23	<20	<20	34	29	35	30	28
Residential	255520	50	65	29	<20	23	<20	<20	33	28	35	29	27
Residential	255558	50	65	31	<20	<20	<20	<20	35	30	37	26	23
Residential	255595	50	65	40	<20	24	<20	<20	42	37	45	42	41
Residential	255601	50	65	41	22	26	<20	<20	41	36	44	43	42
Residential	255603	50	65	46	29	32	26	23	50	44	53	45	43
Residential	255605	50	65	47	30	33	27	23	50	44	53	47	45
Residential	255617	50	65	34	31	34	27	24	38	32	40	36	35

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	255620	50	65	27	30	33	31	28	32	27	33	29	26
Residential	255621	50	65	27	30	33	27	24	31	26	32	29	27
Residential	255630	50	65	42	45	47	42	36	46	40	48	34	32
Residential	255640	50	65	31	34	37	31	27	35	29	36	32	30
Residential	255641	50	65	43	47	50	44	38	46	41	49	31	29
Residential	255691	50	65	50	53	55	50	43	53	47	56	54	52
Residential	255776	50	65	51	32	35	29	26	54	49	57	54	52
Residential	255777	50	65	50	31	34	28	25	53	48	56	53	52
Residential	255835	50	65	37	21	25	<20	22	40	34	42	39	38
Residential	255861	50	65	36	20	24	21	20	39	33	41	38	37
Residential	255865	50	65	35	20	24	<20	<20	38	33	40	37	35
Residential	255892	50	65	33	24	28	21	<20	37	32	39	35	34
Residential	255934	50	65	56	41	44	38	33	58	53	60	46	45
Residential	255984	50	65	50	46	49	43	37	53	47	55	56	55
Residential	256012	50	65	31	33	36	30	26	35	29	36	32	30
Residential	256019	50	65	67	66	69	66	57	70	65	68	73	72
Residential	256048	50	65	40	41	44	38	33	43	38	45	38	36
Residential	256057	50	65	47	40	42	37	32	50	44	53	39	37
Residential	256166	50	65	58	62	64	60	52	61	56	63	62	61
Residential	256191	50	65	56	50	53	48	41	59	53	61	50	48
Residential	256192	50	65	57	50	53	47	40	59	54	61	49	47
Residential	256213	50	65	49	53	56	51	43	52	46	55	53	51
Residential	256248	50	65	57	60	63	58	50	60	54	61	67	66
Residential	256284	50	65	35	41	43	38	33	39	33	41	50	49
Residential	256289	50	65	38	43	46	40	35	41	36	44	44	42
Residential	256408	50	65	38	23	27	21	21	41	36	43	21	<20
Residential	256574	50	65	36	28	31	26	24	40	34	42	<20	<20
Residential	256709	50	65	33	40	42	36	32	37	32	39	39	37
Residential	256813	50	65	36	34	36	30	27	40	35	43	23	20
Residential	256817	50	65	43	48	50	45	38	45	40	48	46	44
Residential	256879	50	65	33	35	38	32	28	35	30	37	40	38
Residential	256882	50	65	34	35	38	32	28	36	31	38	41	39
Residential	256926	50	65	35	38	40	34	30	39	34	42	28	26
Residential	256951	50	65	33	36	39	33	29	37	32	39	28	25
Residential	257009	50	65	34	38	41	35	31	37	31	39	40	39
Residential	257028	50	65	47	45	47	42	36	49	43	52	57	55
Residential	257039	50	65	32	37	39	33	29	35	30	37	38	37
Residential	257046	50	65	45	45	47	42	36	48	43	51	55	53
Residential	257128	50	65	31	35	38	32	28	34	29	36	38	37
Residential	259291	50	65	41	47	49	44	37	44	39	47	29	27
Residential	259381	50	65	36	42	44	39	33	40	35	42	27	24
Residential	259957	50	65	40	44	46	40	35	43	38	46	34	33
Residential	260029	50	65	42	40	43	37	32	45	40	48	41	39
Residential	260058	50	65	70	44	47	41	35	73	67	74	77	76
Residential	260067	50	65	71	46	49	43	37	67	62	70	78	76
Residential	260069	50	65	43	38	41	35	31	46	41	49	45	44

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	260119	50	65	62	47	50	44	38	61	56	65	86	84
Residential	260150	50	65	58	56	59	54	46	60	54	63	63	62
Residential	260165	50	65	56	47	49	43	37	59	53	62	68	67
Residential	260169	50	65	65	43	46	42	36	67	61	68	82	81
Residential	260170	50	65	63	57	60	55	47	64	59	67	73	71
Residential	260189	50	65	66	51	53	48	41	68	63	70	71	69
Residential	260213	50	65	69	53	56	50	43	71	66	73	71	69
Residential	260446	50	65	43	46	49	43	37	46	41	49	45	44
Residential	260528	50	65	64	66	68	65	56	67	61	67	42	40
Residential	260630	50	65	34	40	43	37	32	38	33	40	37	35
Residential	260789	50	65	29	35	37	31	28	33	28	34	32	30
Residential	260930	50	65	53	53	56	51	43	56	51	59	56	55
Residential	261084	50	65	65	44	47	41	35	67	62	67	64	63
Residential	261368	50	65	67	44	46	41	35	70	64	67	75	73
Residential	261386	50	65	66	45	48	42	36	69	63	66	76	74
Residential	261419	50	65	36	38	41	35	31	40	35	43	41	40
Residential	261452	50	65	62	40	42	36	32	64	59	65	49	47
Residential	261465	50	65	58	35	38	32	27	60	55	62	47	45
Residential	261493	50	65	66	43	45	39	34	68	63	69	57	56
Residential	261535	50	65	58	35	38	33	28	61	55	63	51	49
Residential	261542	50	65	31	26	29	23	22	35	30	37	27	25
Residential	261572	50	65	59	41	44	38	33	62	56	65	56	54
Residential	261608	50	65	56	37	41	34	30	59	54	62	54	52
Residential	261613	50	65	54	37	40	34	29	57	52	60	51	49
Residential	261633	50	65	32	29	32	26	24	36	31	38	30	28
Residential	261638	50	65	59	39	42	37	31	62	56	65	62	60
Residential	261649	50	65	57	39	42	36	32	60	55	63	58	56
Residential	261661	50	65	56	39	42	37	32	59	53	62	56	54
Residential	261665	50	65	60	41	44	38	32	63	57	65	74	73
Residential	261686	50	65	63	43	46	40	34	66	60	67	82	80
Residential	261713	50	65	56	40	43	37	33	59	53	62	63	61
Residential	261717	50	65	60	42	45	42	36	63	57	65	76	74
Residential	261720	50	65	63	44	47	41	35	66	60	67	65	63
Residential	261729	50	65	64	48	51	46	39	67	61	68	62	60
Residential	261739	50	65	64	49	52	46	39	67	61	68	60	59
Residential	261781	50	65	55	41	44	41	35	58	52	61	62	61
Residential	261786	50	65	54	37	40	36	31	57	51	60	60	59
Residential	261802	50	65	58	43	46	42	36	60	55	63	65	64
Residential	261806	50	65	53	40	43	37	31	56	50	59	58	56
Residential	261855	50	65	49	37	40	36	31	52	47	55	52	50
Residential	261888	50	65	52	42	44	41	35	55	50	58	59	57
Residential	261892	50	65	49	38	41	36	31	52	47	56	53	51
Residential	261908	50	65	66	54	57	52	44	68	63	69	58	57
Residential	261910	50	65	50	44	47	41	35	53	48	56	50	49
Residential	261913	50	65	50	44	46	41	35	53	47	56	46	45
Residential	261927	50	65	50	43	46	40	35	53	47	56	49	47

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	261958	50	65	39	33	36	30	27	42	37	45	35	33
Residential	261969	50	65	64	54	56	51	44	66	61	68	62	61
Residential	261999	50	65	32	26	29	23	22	36	31	38	31	29
Residential	262034	50	65	50	47	49	44	38	53	47	56	55	54
Residential	262063	50	65	51	49	51	46	39	54	48	57	61	59
Residential	262104	50	65	50	48	51	46	39	53	47	56	63	62
Residential	262181	50	65	49	49	51	46	39	52	46	55	72	71
Residential	262211	50	65	42	39	41	35	31	46	40	48	45	43
Residential	262286	50	65	48	51	53	48	41	51	45	54	82	80
Residential	263137	50	65	40	43	46	40	35	43	38	46	42	40
Residential	263676	50	65	36	38	41	35	31	40	34	42	36	34
Residential	263929	50	65	33	35	38	32	28	37	31	39	33	31
Residential	314565	50	65	34	40	43	37	32	38	33	40	37	35
Residential	314594	50	65	35	34	37	31	27	38	33	40	38	36
Residential	314600	50	65	34	34	37	31	28	38	33	40	38	36
Residential	314629	50	65	35	34	37	31	27	39	33	41	38	36
Residential	314940	50	65	39	37	39	33	29	43	37	45	43	42
Residential	315063	50	65	43	47	50	44	38	46	40	48	44	42
Residential	315138	50	65	67	52	55	49	42	66	60	67	50	48
Residential	315139	50	65	70	52	54	49	42	68	62	69	49	48
Residential	315262	50	65	60	34	37	31	28	62	56	64	53	52
Residential	315302	50	65	58	36	39	33	29	61	56	63	74	73
Residential	315314	50	65	42	44	47	41	35	45	39	47	42	40
Residential	316186	50	65	39	44	46	40	35	42	37	44	40	38
Residential	316281	50	65	32	33	36	32	28	36	30	38	32	30
Residential	316291	50	65	31	35	37	31	27	35	30	35	32	30
Residential	316328	50	65	46	49	51	46	39	49	43	51	45	43
Residential	316394	50	65	43	34	37	31	27	46	41	49	44	42
Residential	316410	50	65	31	36	38	32	29	35	30	36	33	31
Residential	316470	50	65	39	31	34	28	25	43	37	45	39	37
Residential	316509	50	65	40	34	37	31	27	44	38	46	42	40
Residential	316523	50	65	39	33	36	29	26	43	37	45	39	38
Residential	316557	50	65	39	33	36	29	26	42	37	44	40	38
Residential	316558	50	65	39	35	38	31	28	43	37	45	42	40
Residential	316573	50	65	39	44	47	41	35	43	37	44	40	39
Residential	316600	50	65	39	44	47	41	35	43	37	44	40	39
Residential	316608	50	65	38	43	46	40	34	42	36	44	40	38
Residential	316612	50	65	37	32	35	29	25	40	35	42	39	37
Residential	316617	50	65	38	43	45	40	34	41	36	43	39	38
Residential	316621	50	65	38	44	46	40	35	42	37	44	39	38
Residential	316622	50	65	38	43	46	40	34	42	36	43	40	38
Residential	316637	50	65	38	43	45	40	34	41	36	43	39	37
Residential	316641	50	65	37	42	45	39	34	41	35	42	39	37
Residential	316648	50	65	38	39	41	35	31	41	36	44	39	38
Residential	316649	50	65	37	43	45	39	34	41	36	43	39	38
Residential	316659	50	65	38	43	45	39	34	41	36	43	38	37

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	316673	50	65	37	43	45	39	34	40	35	42	39	37
Residential	316675	50	65	37	42	45	39	33	40	35	42	39	37
Residential	316677	50	65	38	43	45	39	34	42	36	43	39	37
Residential	316695	50	65	37	42	45	39	34	41	35	42	38	36
Residential	316710	50	65	36	41	44	37	32	41	35	42	37	35
Residential	316712	50	65	36	42	44	39	33	40	34	41	38	37
Residential	316713	50	65	37	42	45	39	33	40	35	41	39	37
Residential	316716	50	65	35	39	42	37	31	39	34	41	36	34
Residential	316717	50	65	37	40	42	36	31	41	36	43	39	38
Residential	316720	50	65	36	42	44	38	33	40	34	41	38	36
Residential	316722	50	65	34	40	43	37	31	38	32	40	37	35
Residential	316724	50	65	35	41	44	38	33	39	34	41	38	36
Residential	316726	50	65	35	40	43	37	31	39	33	40	34	32
Residential	316734	50	65	36	42	44	38	33	40	34	41	37	36
Residential	316738	50	65	36	38	40	34	30	40	34	42	38	36
Residential	316739	50	65	35	41	44	38	33	39	34	41	37	36
Residential	316746	50	65	35	41	43	38	32	39	34	40	38	36
Residential	316747	50	65	33	40	42	37	31	37	32	39	36	34
Residential	316756	50	65	35	41	43	37	32	39	33	40	37	35
Residential	316762	50	65	35	40	42	36	30	39	33	41	36	34
Residential	316763	50	65	37	40	43	36	32	41	35	42	39	37
Residential	316764	50	65	34	39	42	36	31	38	33	39	36	34
Residential	316770	50	65	34	41	43	37	32	38	33	40	37	35
Residential	316772	50	65	35	41	43	37	32	39	33	40	37	35
Residential	316776	50	65	33	39	42	36	30	37	31	39	36	34
Residential	316778	50	65	34	41	43	37	32	38	32	40	37	35
Residential	316781	50	65	35	40	42	36	31	39	34	41	34	32
Residential	316787	50	65	34	40	43	37	32	38	33	40	37	35
Residential	316793	50	65	33	38	41	35	30	37	32	38	37	35
Residential	316797	50	65	34	40	43	37	32	38	33	39	37	35
Residential	316800	50	65	32	37	39	34	30	36	30	38	34	32
Residential	316811	50	65	34	40	42	36	32	38	32	39	36	35
Residential	316815	50	65	34	40	43	37	32	38	33	40	37	35
Residential	316820	50	65	35	39	41	35	30	39	33	41	34	32
Residential	316821	50	65	34	40	42	37	31	38	32	40	36	34
Residential	316823	50	65	34	40	42	36	31	38	32	39	36	34
Residential	316825	50	65	34	40	42	36	30	37	32	39	36	34
Residential	316826	50	65	32	36	38	35	30	36	31	37	33	31
Residential	316831	50	65	34	40	42	36	32	38	33	39	34	32
Residential	316833	50	65	33	38	41	35	30	37	32	38	35	33
Residential	316846	50	65	34	40	42	36	32	38	33	39	36	35
Residential	316848	50	65	34	38	41	35	30	38	33	40	33	31
Residential	316849	50	65	35	34	36	30	27	39	33	40	37	35
Residential	316860	50	65	33	39	41	35	30	37	32	38	35	33
Residential	316861	50	65	33	39	42	36	31	37	32	39	36	34
Residential	316862	50	65	32	38	40	34	30	36	30	37	35	33

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	316866	50	65	33	39	42	36	31	37	32	39	34	32
Residential	316869	50	65	33	39	41	35	31	37	31	38	35	33
Residential	316877	50	65	33	39	41	36	30	37	31	39	35	33
Residential	316878	50	65	32	38	41	35	31	36	31	38	35	33
Residential	316880	50	65	33	39	41	35	30	37	31	38	35	33
Residential	316889	50	65	32	38	40	34	30	37	31	38	32	31
Residential	316890	50	65	33	39	41	35	29	37	31	38	35	33
Residential	316902	50	65	34	40	42	36	30	38	33	40	36	34
Residential	316903	50	65	33	39	42	36	31	37	32	38	36	34
Residential	316907	50	65	31	37	40	32	28	36	30	37	33	31
Residential	316908	50	65	33	38	41	35	29	37	31	38	34	32
Residential	316914	50	65	33	39	42	36	31	37	32	38	36	34
Residential	316915	50	65	33	38	40	35	29	37	31	38	34	32
Residential	316916	50	65	32	38	41	35	30	36	31	36	32	31
Residential	316917	50	65	32	38	41	35	30	36	31	37	35	33
Residential	316920	50	65	34	40	42	36	30	38	32	39	36	34
Residential	316924	50	65	33	38	41	35	30	37	31	38	33	31
Residential	316926	50	65	33	39	41	35	29	37	31	38	34	33
Residential	316927	50	65	32	39	41	35	30	37	31	38	34	33
Residential	316929	50	65	32	39	41	35	30	36	31	37	34	33
Residential	316930	50	65	32	38	41	35	30	36	31	38	35	33
Residential	316931	50	65	31	37	39	33	29	35	30	37	33	31
Residential	316938	50	65	32	38	40	34	29	36	30	37	33	31
Residential	316939	50	65	33	34	37	31	28	37	32	39	36	34
Residential	316942	50	65	31	38	40	34	29	36	30	37	34	32
Residential	316944	50	65	31	37	40	34	30	35	30	37	33	31
Residential	316948	50	65	30	36	39	33	29	34	29	35	33	31
Residential	316952	50	65	30	35	38	31	27	34	29	35	32	30
Residential	316953	50	65	32	39	41	35	30	36	30	37	34	32
Residential	316954	50	65	31	35	38	32	28	35	29	36	32	30
Residential	316957	50	65	33	39	41	35	29	37	32	39	34	32
Residential	316960	50	65	31	38	40	34	30	36	30	37	34	32
Residential	316962	50	65	31	23	27	20	<20	35	30	37	32	30
Residential	316963	50	65	32	37	40	34	29	36	31	37	33	31
Residential	316966	50	65	31	37	40	34	30	36	30	37	31	29
Residential	316970	50	65	31	37	40	34	30	35	30	36	34	32
Residential	316971	50	65	33	39	42	36	30	37	31	38	35	34
Residential	316973	50	65	29	36	38	32	28	34	28	35	32	30
Residential	316975	50	65	31	34	37	31	27	35	30	36	31	29
Residential	316976	50	65	33	40	42	36	30	37	31	39	35	34
Residential	316980	50	65	31	38	40	34	30	35	30	37	34	32
Residential	316982	50	65	31	37	40	34	29	35	29	37	34	32
Residential	316992	50	65	31	38	40	34	29	35	30	37	33	31
Residential	316993	50	65	31	36	39	33	28	35	30	36	33	31
Residential	316997	50	65	34	39	41	35	30	38	32	39	35	33
Residential	317002	50	65	32	38	41	35	29	36	30	38	35	33

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	317003	50	65	32	38	41	35	30	36	31	37	35	33
Residential	317005	50	65	31	38	40	34	30	35	30	37	34	32
Residential	317011	50	65	30	37	39	33	29	35	29	36	33	31
Residential	317013	50	65	31	37	39	33	29	35	29	36	33	31
Residential	317018	50	65	32	38	40	34	29	36	30	37	34	32
Residential	317021	50	65	31	37	39	33	29	35	30	36	33	32
Residential	317022	50	65	30	37	39	33	29	35	29	36	33	31
Residential	317024	50	65	31	38	40	34	30	35	30	37	34	32
Residential	317027	50	65	33	38	40	34	29	37	32	39	33	32
Residential	317030	50	65	27	33	36	30	25	32	26	33	30	28
Residential	317033	50	65	31	38	41	35	30	36	30	37	34	33
Residential	317035	50	65	32	35	38	32	28	36	31	37	32	30
Residential	317041	50	65	31	38	40	34	30	36	30	37	32	30
Residential	317042	50	65	27	33	35	29	25	31	26	32	30	28
Residential	317043	50	65	31	37	40	34	29	35	30	36	34	32
Residential	317044	50	65	28	33	36	30	25	33	28	33	30	28
Residential	317045	50	65	31	37	39	33	29	35	29	36	33	31
Residential	317046	50	65	30	36	39	34	29	35	29	35	32	30
Residential	317047	50	65	31	35	38	33	29	35	29	36	32	30
Residential	317060	50	65	30	36	39	33	28	35	29	36	32	30
Residential	317062	50	65	32	38	40	34	30	36	31	38	34	33
Residential	317063	50	65	32	38	41	35	29	36	30	37	35	33
Residential	317067	50	65	33	33	36	30	27	37	32	38	35	33
Residential	317068	50	65	31	36	39	32	28	36	30	37	32	30
Residential	317074	50	65	29	34	37	31	27	34	28	34	31	29
Residential	317077	50	65	31	36	39	33	29	35	29	36	33	31
Residential	317078	50	65	31	37	39	34	29	35	30	36	33	31
Residential	317079	50	65	30	36	39	32	28	34	29	35	33	31
Residential	317084	50	65	30	37	39	33	29	35	29	35	33	32
Residential	317090	50	65	31	38	40	34	29	36	30	37	34	32
Residential	317094	50	65	31	38	41	34	30	36	30	37	34	32
Residential	317096	50	65	29	35	38	32	28	34	28	34	30	28
Residential	317099	50	65	32	37	40	34	30	36	30	37	32	30
Residential	317100	50	65	29	35	38	32	28	33	28	34	30	28
Residential	317101	50	65	29	33	35	29	25	33	28	34	30	28
Residential	317102	50	65	30	36	39	33	28	35	29	35	33	31
Residential	317103	50	65	<20	<20	<20	<20	<20	22	<20	21	<20	<20
Residential	317104	50	65	31	38	41	34	29	36	30	37	34	33
Residential	317105	50	65	29	35	38	32	27	33	28	34	32	30
Residential	317107	50	65	30	36	39	33	29	34	29	35	33	31
Residential	317109	50	65	28	33	35	30	26	33	27	33	30	28
Residential	317110	50	65	<20	<20	22	<20	<20	22	<20	21	<20	<20
Residential	317112	50	65	30	36	39	33	29	34	29	35	32	30
Residential	317118	50	65	30	36	39	33	28	35	29	35	32	31
Residential	317124	50	65	<20	<20	23	<20	<20	23	<20	22	<20	<20
Residential	317131	50	65	31	37	40	34	29	35	30	36	33	31

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	317135	50	65	30	36	39	33	28	34	29	35	33	31
Residential	317136	50	65	30	36	39	33	28	35	29	35	33	31
Residential	317140	50	65	30	36	39	33	29	34	29	35	31	29
Residential	317144	50	65	30	36	38	32	29	34	29	35	32	31
Residential	317145	50	65	30	37	39	33	29	35	29	36	33	31
Residential	317151	50	65	30	35	37	32	28	35	29	35	30	28
Residential	317154	50	65	32	38	41	35	30	36	31	38	34	32
Residential	317159	50	65	30	36	39	33	28	35	29	35	33	31
Residential	317161	50	65	31	38	40	34	29	35	30	36	34	32
Residential	317171	50	65	28	34	37	31	28	33	27	33	31	29
Residential	317172	50	65	28	33	36	30	27	32	27	33	30	28
Residential	317180	50	65	30	37	39	33	28	35	29	36	33	31
Residential	317183	50	65	31	36	39	33	28	35	30	36	30	28
Residential	317189	50	65	23	24	28	22	20	28	22	28	22	20
Residential	317191	50	65	31	37	40	34	29	35	30	36	33	31
Residential	317192	50	65	27	32	35	29	25	32	26	32	29	27
Residential	317193	50	65	26	31	34	28	24	30	25	31	29	27
Residential	317197	50	65	29	36	38	32	28	34	28	35	31	29
Residential	317198	50	65	30	36	38	32	29	34	29	35	29	27
Residential	317199	50	65	28	32	35	29	26	32	27	34	29	27
Residential	317200	50	65	29	34	36	30	28	34	28	35	31	29
Residential	317201	50	65	28	34	37	31	27	33	27	33	31	29
Residential	317206	50	65	30	37	39	33	28	34	29	36	31	30
Residential	317207	50	65	29	34	37	31	27	34	28	34	31	29
Residential	317212	50	65	30	36	39	33	28	35	29	35	32	31
Residential	317213	50	65	29	35	37	31	27	33	28	34	29	27
Residential	317215	50	65	29	35	38	31	27	33	28	34	32	30
Residential	317216	50	65	32	36	39	33	29	36	31	37	32	30
Residential	317223	50	65	30	35	38	31	27	34	28	35	32	30
Residential	317228	50	65	31	38	40	34	29	35	29	36	33	32
Residential	317230	50	65	30	37	40	33	29	35	29	35	32	30
Residential	317241	50	65	28	34	37	31	27	33	27	33	30	28
Residential	317242	50	65	<20	<20	22	<20	<20	23	<20	22	<20	<20
Residential	317245	50	65	<20	21	25	<20	<20	23	<20	22	20	<20
Residential	317246	50	65	<20	<20	24	<20	<20	22	<20	21	20	<20
Residential	317247	50	65	32	36	39	33	29	36	31	37	32	30
Residential	317248	50	65	29	34	37	31	27	33	27	34	31	28
Residential	317250	50	65	30	37	39	33	29	35	29	35	32	30
Residential	317256	50	65	30	36	39	33	28	35	29	35	32	30
Residential	317257	50	65	27	31	34	28	25	32	26	33	29	27
Residential	317258	50	65	30	36	39	33	29	34	29	35	33	31
Residential	317264	50	65	28	33	36	29	25	33	27	33	29	27
Residential	317265	50	65	27	32	34	28	25	31	25	32	29	27
Residential	317266	50	65	27	32	35	29	25	31	26	32	29	27
Residential	317268	50	65	28	35	37	31	27	33	27	33	30	28
Residential	317269	50	65	27	34	36	30	27	32	27	33	30	28

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	317270	50	65	28	34	37	31	27	33	27	33	31	29
Residential	317271	50	65	30	37	40	34	29	35	29	36	34	32
Residential	317273	50	65	<20	23	26	20	<20	25	<20	24	21	<20
Residential	317274	50	65	30	35	38	32	28	34	29	35	31	28
Residential	317277	50	65	32	38	40	34	30	36	31	36	34	32
Residential	317278	50	65	27	33	35	29	26	32	26	32	30	28
Residential	317282	50	65	27	33	36	30	25	32	27	32	29	27
Residential	317285	50	65	<20	20	24	<20	<20	22	<20	21	<20	<20
Residential	317286	50	65	27	33	35	30	27	31	26	32	29	27
Residential	317290	50	65	29	36	39	32	27	34	28	35	30	27
Residential	317297	50	65	29	36	38	32	29	34	28	35	31	29
Residential	317300	50	65	30	37	39	33	28	34	29	36	33	31
Residential	317312	50	65	<20	23	26	20	<20	24	<20	23	21	<20
Residential	317322	50	65	31	37	40	34	30	35	30	36	33	31
Residential	317325	50	65	28	34	36	31	27	32	27	33	29	27
Residential	317326	50	65	31	36	39	32	28	35	30	36	32	30
Residential	317330	50	65	<20	21	25	<20	<20	23	<20	22	21	<20
Residential	317331	50	65	30	37	40	33	29	35	29	35	33	31
Residential	317335	50	65	30	37	39	33	28	34	28	35	33	31
Residential	317346	50	65	<20	23	26	20	<20	26	20	25	21	<20
Residential	317352	50	65	25	31	34	28	24	30	24	30	28	26
Residential	317355	50	65	29	36	39	32	27	34	28	35	32	31
Residential	317357	50	65	22	27	30	24	22	27	22	27	24	22
Residential	317358	50	65	25	32	34	28	24	30	25	31	28	26
Residential	317361	50	65	31	37	40	34	29	35	30	36	33	31
Residential	317371	50	65	31	36	39	32	28	35	30	36	31	29
Residential	317372	50	65	21	25	28	23	21	26	21	26	23	20
Residential	317373	50	65	<20	22	26	<20	<20	24	<20	22	20	<20
Residential	317378	50	65	30	37	40	33	29	34	29	35	33	31
Residential	317379	50	65	28	35	37	31	27	33	27	33	30	28
Residential	317385	50	65	27	33	36	29	26	31	26	32	29	27
Residential	317397	50	65	28	34	37	31	27	32	27	33	30	28
Residential	317399	50	65	29	32	35	29	25	33	28	33	28	26
Residential	317411	50	65	26	32	35	28	25	31	25	31	29	27
Residential	317412	50	65	21	23	27	21	20	26	21	25	22	<20
Residential	317418	50	65	29	36	38	33	29	33	28	34	31	29
Residential	317423	50	65	<20	22	26	<20	<20	25	<20	23	20	<20
Residential	317426	50	65	28	34	37	31	27	33	27	34	31	30
Residential	317428	50	65	28	32	35	31	27	32	27	33	29	27
Residential	317429	50	65	28	34	37	31	27	33	27	34	31	29
Residential	317437	50	65	22	27	31	25	22	27	22	27	24	22
Residential	317443	50	65	29	34	36	30	27	34	28	34	29	27
Residential	317452	50	65	26	32	35	29	26	31	25	31	29	26
Residential	317456	50	65	23	28	31	25	22	28	22	27	25	22
Residential	317457	50	65	26	31	34	28	24	31	25	31	28	26
Residential	317460	50	65	<20	20	24	<20	<20	23	<20	22	21	<20

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	317462	50	65	26	32	34	28	24	31	25	31	28	26
Residential	317466	50	65	23	29	32	26	23	28	23	28	24	22
Residential	317467	50	65	27	32	35	29	26	32	26	32	29	27
Residential	317468	50	65	28	34	37	31	27	32	27	33	31	29
Residential	317471	50	65	26	31	34	28	24	31	25	31	28	26
Residential	317473	50	65	27	32	35	29	25	32	26	32	29	27
Residential	317474	50	65	21	25	29	23	21	26	20	25	23	21
Residential	317477	50	65	<20	22	26	<20	<20	25	<20	24	20	<20
Residential	317480	50	65	22	29	32	26	23	28	22	27	26	23
Residential	317481	50	65	28	34	37	31	27	33	27	33	31	28
Residential	317485	50	65	26	32	34	28	24	31	25	31	28	26
Residential	317489	50	65	26	31	34	28	25	31	26	32	28	26
Residential	317493	50	65	21	25	29	23	21	27	21	26	23	20
Residential	317498	50	65	28	32	34	28	24	33	27	33	28	26
Residential	317499	50	65	28	34	37	31	27	33	27	33	31	29
Residential	317502	50	65	29	36	38	32	27	33	27	34	31	29
Residential	317504	50	65	22	28	31	25	22	28	22	27	23	21
Residential	317506	50	65	22	27	30	24	22	27	22	27	24	22
Residential	317508	50	65	25	31	34	28	24	30	24	30	28	26
Residential	317516	50	65	25	31	34	27	24	30	24	31	27	25
Residential	317517	50	65	<20	23	26	<20	<20	25	<20	24	21	<20
Residential	317523	50	65	26	32	34	28	24	31	25	31	28	26
Residential	317526	50	65	25	31	34	28	24	30	24	31	28	26
Residential	317528	50	65	27	33	36	30	27	32	26	32	30	28
Residential	317530	50	65	26	32	34	28	25	31	26	31	28	27
Residential	317536	50	65	28	34	36	30	26	32	26	33	30	28
Residential	317539	50	65	23	29	32	26	23	28	22	28	26	24
Residential	317544	50	65	23	29	32	26	23	28	23	28	27	24
Residential	317549	50	65	24	30	33	27	23	29	23	29	27	25
Residential	317550	50	65	26	31	34	27	24	30	25	31	27	25
Residential	317554	50	65	25	31	34	28	24	30	24	30	28	26
Residential	317558	50	65	26	31	34	28	25	31	25	31	28	26
Residential	317562	50	65	25	30	33	27	24	30	24	31	28	26
Residential	317580	50	65	25	31	34	27	24	30	24	30	28	25
Residential	317586	50	65	25	30	34	27	24	30	24	31	28	26
Residential	317589	50	65	22	26	29	23	21	27	21	26	23	21
Residential	317602	50	65	22	28	31	25	22	27	22	27	25	23
Residential	317606	50	65	22	27	31	24	22	28	22	28	25	23
Residential	317609	50	65	24	30	33	27	23	29	23	29	27	25
Residential	317611	50	65	25	31	34	27	24	30	24	30	27	25
Residential	317613	50	65	26	31	34	27	24	31	25	31	28	26
Residential	317630	50	65	22	28	31	25	22	27	22	27	25	23
Residential	317636	50	65	25	30	33	27	23	30	24	30	26	24
Residential	317641	50	65	23	29	32	26	22	28	22	28	26	24
Residential	317649	50	65	23	29	32	25	22	28	22	28	26	24
Residential	317658	50	65	21	25	28	22	20	26	21	26	22	20

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	317663	50	65	24	30	33	27	23	29	24	29	27	25
Residential	317696	50	65	23	29	32	26	23	28	23	28	27	25
Residential	317697	50	65	24	30	33	27	23	29	24	29	27	25
Residential	317699	50	65	21	25	29	23	21	26	21	26	23	20
Residential	317703	50	65	22	28	31	25	22	27	22	27	25	23
Residential	317712	50	65	23	29	32	25	22	28	22	28	26	24
Residential	317732	50	65	22	28	31	25	22	27	22	27	25	23
Residential	317734	50	65	23	29	32	26	22	28	22	28	26	24
Residential	317749	50	65	21	26	29	23	21	26	21	26	24	21
Residential	317757	50	65	21	27	30	24	21	27	21	26	24	22
Residential	318983	50	65	26	31	35	29	25	31	25	32	30	28
Residential	318985	50	65	46	50	53	48	41	49	43	52	39	37
Residential	318986	50	65	30	36	38	32	28	34	28	35	33	31
Residential	318992	50	65	37	<20	23	<20	<20	40	35	42	20	<20
Residential	318997	50	65	37	38	40	34	30	40	34	42	35	34
Residential	318998	50	65	35	32	34	33	29	39	33	40	34	32
Residential	318999	50	65	34	38	41	35	30	38	32	40	36	34
Residential	319000	50	65	66	31	34	28	24	69	63	67	35	33
Residential	319002	50	65	25	30	33	27	24	30	24	31	35	33
Residential	319003	50	65	55	34	36	30	27	58	52	59	51	49
Residential	319005	50	65	52	25	28	22	<20	54	49	52	36	35
Residential	319009	50	65	51	53	56	51	43	53	48	56	53	51
Residential	319012	50	65	52	37	40	34	29	55	49	58	54	52
Residential	319013	50	65	30	27	30	24	21	34	29	35	31	29
Residential	319016	50	65	42	25	29	22	<20	45	40	48	45	43
Residential	319017	50	65	34	39	41	35	31	38	33	40	36	34
Residential	319019	50	65	55	30	33	27	23	58	52	60	54	52
Residential	319020	50	65	39	39	42	36	30	43	37	45	37	36
Residential	319022	50	65	42	31	34	29	26	46	40	48	40	38
Residential	319024	50	65	40	32	35	30	26	43	38	44	39	37
Residential	319031	50	65	38	38	41	35	30	42	36	44	35	33
Residential	319032	50	65	42	43	46	44	38	45	40	47	42	40
Residential	319034	50	65	28	33	36	30	26	32	26	33	31	29
Residential	319035	50	65	32	37	40	34	29	36	30	38	36	34
Residential	319037	50	65	42	46	49	43	37	46	40	48	44	43
Residential	319039	50	65	47	51	53	48	41	49	43	51	50	49
Residential	319040	50	65	37	31	35	28	25	41	35	43	38	36
Residential	319042	50	65	55	43	46	40	38	57	51	60	39	37
Residential	319044	50	65	56	40	43	37	32	58	53	61	41	39
Residential	319045	50	65	59	39	41	35	31	62	56	64	60	58
Residential	319048	50	65	51	36	39	33	28	54	48	57	54	52
Residential	319049	50	65	46	40	42	36	32	49	43	51	42	41
Residential	319052	50	65	30	33	36	30	27	34	29	36	32	30
Residential	319053	50	65	30	30	33	27	23	35	29	36	29	27
Residential	319054	50	65	29	30	34	27	24	34	29	35	30	28
Residential	319055	50	65	31	35	38	32	28	35	30	37	32	30

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	319057	50	65	33	36	39	33	29	37	32	40	36	34
Residential	319058	50	65	35	38	40	34	30	39	33	41	37	35
Residential	319059	50	65	31	<20	22	<20	<20	35	30	37	<20	<20
Residential	319061	50	65	30	<20	22	<20	<20	34	29	36	<20	<20
Residential	319062	50	65	29	<20	23	<20	<20	33	28	35	21	<20
Residential	319064	50	65	30	<20	23	<20	<20	34	29	36	20	<20
Residential	319066	50	65	36	<20	23	<20	<20	40	34	42	<20	<20
Residential	319071	50	65	37	34	37	31	27	39	34	41	39	37
Residential	319073	50	65	29	35	38	32	28	34	28	35	33	31
Residential	319076	50	65	26	32	34	29	26	30	25	31	28	25
Residential	319077	50	65	44	23	27	21	<20	47	41	49	21	<20
Residential	319082	50	65	31	22	26	<20	<20	35	29	36	23	21
Residential	319088	50	65	36	23	27	20	<20	40	35	42	24	21
Residential	319090	50	65	35	25	29	23	20	38	33	40	25	23
Residential	319094	50	65	35	24	28	22	<20	39	33	41	37	35
Residential	319098	50	65	46	51	53	48	41	50	44	52	55	54
Residential	319099	50	65	47	51	54	49	42	50	45	53	56	55
Residential	319100	50	65	54	45	48	42	35	57	51	59	49	48
Residential	319101	50	65	61	62	64	61	52	64	58	64	63	62
Residential	319103	50	65	58	61	63	60	51	60	55	62	77	76
Residential	319104	50	65	55	58	61	57	48	58	52	60	74	72
Residential	319111	50	65	33	33	35	34	30	37	31	38	35	33
Residential	319112	50	65	36	38	40	34	30	39	34	42	37	35
Residential	319114	50	65	36	39	41	35	31	40	35	42	38	36
Residential	319117	50	65	31	37	39	34	29	35	30	37	30	28
Residential	319121	50	65	66	52	55	49	42	68	63	68	49	47
Residential	319122	50	65	31	37	40	35	30	36	30	36	34	32
Residential	319126	50	65	37	43	45	39	34	41	35	42	36	35
Residential	319129	50	65	27	33	36	30	27	32	26	33	31	29
Residential	319133	50	65	32	20	25	<20	<20	36	31	38	22	<20
Residential	319134	50	65	33	<20	23	<20	<20	37	32	38	20	<20
Residential	319135	50	65	32	<20	23	<20	<20	36	30	37	20	<20
Residential	319138	50	65	51	50	52	46	40	54	49	57	45	43
Residential	319141	50	65	41	46	48	43	36	43	38	46	43	41
Residential	319143	50	65	31	37	39	33	29	35	29	36	33	31
Residential	319145	50	65	35	40	43	37	32	38	33	40	38	36
Residential	319147	50	65	41	37	40	35	31	44	39	47	41	39
Residential	319150	50	65	65	43	46	40	34	67	62	68	48	46
Residential	319152	50	65	28	34	36	30	26	33	27	34	31	29
Residential	319154	50	65	82	55	57	52	44	55	50	58	74	73
Residential	319157	50	65	39	36	39	33	29	43	37	45	42	40
Residential	319163	50	65	57	30	34	27	28	58	53	61	47	45
Residential	319166	50	65	57	50	53	47	40	60	54	62	45	44
Residential	319167	50	65	46	34	37	31	27	50	44	50	50	48
Residential	319168	50	65	43	43	46	40	34	46	41	47	48	46
Residential	319174	50	65	38	27	30	24	23	40	35	42	40	38

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	319175	50	65	39	27	30	24	23	41	36	44	42	40
Residential	319178	50	65	24	23	26	20	<20	29	23	30	27	25
Residential	319180	50	65	25	26	30	24	21	30	24	30	29	26
Residential	319183	50	65	29	24	27	22	21	34	28	35	30	28
Residential	319184	50	65	33	38	41	35	30	37	31	38	35	34
Residential	319185	50	65	41	26	29	23	20	45	39	48	23	21
Residential	319186	50	65	32	31	34	28	25	37	31	38	28	26
Residential	319190	50	65	32	36	39	33	29	36	30	38	33	31
Residential	319191	50	65	63	50	52	47	40	65	59	67	47	45
Residential	319193	50	65	60	49	51	46	39	62	56	65	46	44
Residential	319194	50	65	38	44	46	41	35	42	36	44	48	46
Residential	319199	50	65	61	34	36	31	27	63	57	65	56	54
Residential	319200	50	65	56	49	51	46	39	58	53	61	45	44
Residential	319201	50	65	32	33	37	30	30	36	30	37	39	37
Residential	319203	50	65	33	39	41	36	31	37	31	39	36	34
Residential	319205	50	65	36	41	44	38	33	39	34	41	38	37
Residential	319206	50	65	48	52	54	49	42	51	46	54	60	59
Residential	319210	50	65	30	<20	<20	<20	<20	34	29	36	32	30
Residential	319212	50	65	29	<20	<20	<20	<20	34	29	35	31	29
Residential	319214	50	65	35	40	43	37	32	38	33	40	36	34
Residential	319215	50	65	43	30	33	27	23	46	41	49	32	30
Residential	319219	50	65	43	25	28	22	<20	46	41	49	47	45
Residential	319220	50	65	43	23	27	21	<20	46	41	45	47	46
Residential	319224	50	65	35	<20	23	<20	<20	39	33	41	34	32
Residential	319225	50	65	36	21	25	<20	<20	40	34	41	35	33
Residential	319226	50	65	65	36	38	32	28	66	61	66	68	66
Residential	319228	50	65	59	25	29	22	20	60	54	56	39	37
Residential	319230	50	65	35	40	42	36	31	38	33	40	40	39
Residential	319235	50	65	42	21	25	<20	<20	46	40	48	40	38
Residential	319239	50	65	25	26	29	23	21	30	24	31	28	26
Residential	319240	50	65	35	34	37	35	30	39	34	41	34	33
Residential	319246	50	65	38	35	37	32	28	40	34	42	40	39
Residential	319247	50	65	47	20	25	<20	22	50	45	53	43	42
Residential	319248	50	65	27	32	35	29	25	31	26	32	37	35
Residential	319249	50	65	26	31	34	28	24	31	25	32	36	34
Residential	319254	50	65	28	30	33	27	23	31	26	33	31	29
Residential	319261	50	65	36	31	34	28	25	40	34	42	37	35
Residential	319263	50	65	41	46	49	43	37	44	39	47	45	43
Residential	319267	50	65	38	32	35	29	25	41	36	43	38	37
Residential	319269	50	65	35	29	32	26	23	38	33	41	36	35
Residential	319275	50	65	35	41	44	38	33	39	33	41	58	57
Residential	319276	50	65	32	37	39	33	29	36	30	37	35	33
Residential	319279	50	65	49	39	42	36	31	53	47	55	40	39
Residential	319280	50	65	33	30	33	29	25	37	32	39	32	30
Residential	319283	50	65	33	39	41	35	31	37	31	39	50	49
Residential	319285	50	65	41	25	29	23	20	45	39	47	40	38

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	319287	50	65	41	26	29	23	21	44	39	47	41	40
Residential	319289	50	65	37	27	30	24	21	41	35	43	39	37
Residential	319292	50	65	44	46	48	44	38	47	41	49	46	45
Residential	319293	50	65	52	43	46	40	36	54	49	58	52	51
Residential	319294	50	65	64	40	43	38	32	67	62	66	44	42
Residential	319297	50	65	74	56	59	54	46	56	50	58	72	71
Residential	319298	50	65	45	32	34	28	24	48	42	52	33	31
Residential	319299	50	65	55	50	52	47	40	54	49	57	57	55
Residential	319300	50	65	55	49	51	46	39	49	43	52	57	55
Residential	319302	50	65	60	34	37	31	27	62	57	63	35	33
Residential	319303	50	65	34	40	42	36	31	38	32	39	36	34
Residential	319308	50	65	29	27	31	25	22	34	29	36	28	26
Residential	319309	50	65	27	29	33	26	23	32	26	33	29	27
Residential	319312	50	65	32	34	37	32	29	37	31	38	35	33
Residential	319315	50	65	48	30	33	27	23	50	44	53	48	46
Residential	319317	50	65	33	<20	<20	<20	<20	37	31	39	31	29
Residential	319318	50	65	33	<20	<20	<20	<20	37	31	39	32	30
Residential	319320	50	65	32	32	35	29	25	36	30	37	35	33
Residential	319323	50	65	29	33	36	30	26	34	28	35	32	30
Residential	319327	50	65	47	39	42	36	30	49	44	52	45	44
Residential	319328	50	65	45	38	41	35	30	48	42	50	45	43
Residential	319331	50	65	45	44	46	41	36	48	42	51	45	44
Residential	319332	50	65	32	30	33	27	23	36	31	38	31	29
Residential	319336	50	65	33	38	41	35	29	38	32	40	36	34
Residential	319341	50	65	42	46	49	44	37	45	39	47	45	43
Residential	319344	50	65	31	36	39	32	28	36	30	37	34	32
Residential	319349	50	65	48	52	54	49	42	51	45	53	39	37
Residential	319352	50	65	30	27	31	25	22	34	29	36	29	27
Residential	319356	50	65	41	42	44	38	33	44	39	47	49	48
Residential	319357	50	65	39	44	46	40	35	43	37	45	49	47
Residential	319362	50	65	56	34	37	31	26	58	53	59	38	36
Residential	319363	50	65	55	42	44	38	33	57	52	58	47	45
Residential	319364	50	65	53	41	43	38	33	56	50	57	46	44
Residential	319365	50	65	44	41	43	37	32	47	41	48	40	38
Residential	319374	50	65	41	37	40	34	29	45	39	47	38	37
Residential	319388	50	65	30	<20	<20	<20	<20	35	29	36	31	29
Residential	319396	50	65	30	30	33	27	23	34	28	36	32	30
Residential	319400	50	65	31	33	37	31	28	35	30	37	30	28
Residential	319409	50	65	29	33	37	30	26	33	27	34	32	30
Residential	319420	50	65	30	33	36	30	27	33	28	34	37	35
Residential	319452	50	65	55	30	33	27	23	58	52	59	54	52
Residential	319464	50	65	35	36	39	33	28	39	33	42	36	34
Residential	319465	50	65	51	30	33	27	24	53	47	56	51	50
Residential	319481	50	65	60	47	49	43	37	62	56	64	69	67
Residential	319483	50	65	48	34	37	31	26	51	45	54	52	50
Residential	319485	50	65	63	59	61	57	49	65	60	67	68	67

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	319490	50	65	35	41	44	38	33	39	33	41	38	37
Residential	319491	50	65	29	31	34	28	24	34	28	35	32	30
Residential	319493	50	65	44	47	49	44	37	47	42	50	55	54
Residential	319495	50	65	31	36	38	33	29	35	30	37	33	31
Residential	319500	50	65	34	37	40	34	30	38	32	40	36	34
Residential	319505	50	65	36	39	42	36	31	40	34	42	38	36
Residential	319570	50	65	25	31	34	27	24	30	24	31	29	27
Residential	319605	50	65	55	56	59	54	46	58	53	61	57	56
Residential	319629	50	65	32	35	38	32	28	36	31	38	33	31
Residential	319630	50	65	32	32	35	29	25	36	31	38	32	30
Residential	319640	50	65	40	45	48	42	36	43	38	45	43	41
Residential	319652	50	65	57	54	57	51	44	60	55	62	54	52
Residential	319653	50	65	37	35	39	32	30	40	35	43	41	40
Residential	319659	50	65	25	29	33	26	23	30	24	31	30	28
Residential	319682	50	65	28	34	36	30	27	33	28	34	30	28
Residential	319693	50	65	28	30	33	27	24	33	27	34	29	27
Residential	319704	50	65	30	<20	23	<20	<20	34	29	36	20	<20
Residential	319707	50	65	35	<20	23	<20	<20	39	33	41	20	<20
Residential	319718	50	65	50	22	26	20	<20	53	47	56	21	<20
Residential	319732	50	65	34	40	42	36	31	38	32	40	35	33
Residential	319733	50	65	56	49	52	47	41	59	54	62	55	53
Residential	319734	50	65	53	34	37	31	26	56	50	58	34	32
Residential	319736	50	65	45	38	41	35	30	48	42	51	56	54
Residential	319737	50	65	32	29	32	26	22	37	31	38	31	29
Residential	319748	50	65	28	32	35	29	25	33	27	34	30	28
Residential	319752	50	65	28	30	33	27	25	33	28	33	28	26
Residential	319767	50	65	34	37	40	34	30	38	32	40	36	34
Residential	319803	50	65	42	37	40	39	34	45	40	48	42	40
Residential	319816	50	65	29	31	34	31	28	33	27	33	32	30
Residential	319848	50	65	67	46	49	45	39	70	64	70	60	59
Residential	320062	50	65	43	35	38	32	27	46	40	48	38	36
Residential	320180	50	65	47	49	51	46	39	50	44	52	48	47
Residential	320263	50	65	33	<20	<20	<20	<20	37	31	39	26	23
Residential	320346	50	65	29	25	29	27	24	34	28	35	23	21
Residential	320350	50	65	35	38	41	35	29	39	33	40	39	37
Residential	320355	50	65	29	29	32	26	23	33	27	34	33	31
Residential	320356	50	65	32	29	32	27	25	36	30	37	30	28
Residential	320357	50	65	31	23	26	21	20	35	30	36	29	27
Residential	320358	50	65	51	41	44	38	32	54	49	57	49	47
Residential	320359	50	65	34	35	38	32	28	38	33	40	33	31
Residential	320360	50	65	38	28	32	26	23	42	37	45	27	25
Residential	320363	50	65	45	49	52	46	39	48	42	50	50	48
Residential	320364	50	65	41	37	40	34	29	44	39	47	43	41
Residential	320365	50	65	42	45	47	42	36	45	40	48	44	43
Residential	320366	50	65	32	36	39	33	29	37	31	39	35	34
Residential	320376	50	65	50	54	56	51	43	53	47	56	55	53

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	320432	50	65	36	36	38	32	27	40	35	42	34	33
Residential	320433	50	65	38	37	39	33	28	41	36	43	35	33
Residential	320434	50	65	36	37	39	34	30	40	35	43	34	32
Residential	320435	50	65	39	43	46	40	34	42	37	45	40	39
Residential	320436	50	65	34	36	39	33	29	38	32	39	33	32
Residential	320437	50	65	38	44	46	40	35	42	36	44	42	40
Residential	320439	50	65	37	43	46	40	34	41	36	43	41	39
Residential	320440	50	65	25	23	27	21	20	30	25	31	28	26
Residential	320441	50	65	33	39	42	36	31	37	32	39	36	34
Residential	320442	50	65	40	45	48	42	36	43	38	45	44	42
Residential	320444	50	65	42	46	49	43	37	46	40	48	43	42
Residential	320448	50	65	35	41	44	38	33	39	34	41	39	37
Residential	320449	50	65	44	49	51	46	39	47	41	50	47	45
Residential	320450	50	65	29	35	38	32	28	33	28	34	32	30
Residential	320451	50	65	33	32	35	29	25	37	31	38	31	29
Residential	320453	50	65	32	33	36	29	25	36	31	38	31	29
Residential	320454	50	65	34	30	33	27	24	38	33	40	36	34
Residential	320456	50	65	37	43	46	40	35	42	36	43	41	39
Residential	320457	50	65	36	42	44	38	33	40	34	41	40	38
Residential	320458	50	65	31	30	32	26	23	35	29	36	32	30
Residential	320459	50	65	38	43	46	40	35	42	36	44	40	39
Residential	320460	50	65	39	43	45	39	34	42	37	45	39	37
Residential	320461	50	65	40	45	48	42	36	44	38	46	44	42
Residential	320462	50	65	37	35	37	31	31	40	35	42	36	34
Residential	320463	50	65	35	33	36	29	25	39	33	41	36	34
Residential	320465	50	65	37	43	46	40	34	41	35	42	41	39
Residential	320467	50	65	25	30	33	27	23	30	24	30	27	25
Residential	320468	50	65	35	34	36	30	26	39	34	41	35	33
Residential	320469	50	65	38	43	46	40	35	41	36	43	41	39
Residential	320470	50	65	38	38	41	35	32	41	36	44	35	33
Residential	320471	50	65	39	45	47	42	36	43	37	45	43	41
Residential	320472	50	65	44	50	52	46	40	48	42	50	48	47
Residential	320473	50	65	35	41	44	38	33	39	33	40	39	37
Residential	320474	50	65	40	43	46	40	34	43	38	46	39	37
Residential	320475	50	65	41	46	49	43	37	44	39	47	45	43
Residential	320476	50	65	36	42	44	38	33	40	34	41	39	38
Residential	320477	50	65	41	47	49	44	37	45	39	47	45	43
Residential	320478	50	65	37	43	46	40	35	41	36	43	41	39
Residential	320479	50	65	36	42	45	39	33	40	34	42	40	38
Residential	320484	50	65	41	46	49	43	37	45	39	47	43	42
Residential	320492	50	65	33	33	35	29	25	37	31	39	33	31
Residential	320496	50	65	41	41	44	40	34	44	38	47	39	38
Residential	320501	50	65	35	34	37	31	26	39	34	41	34	33
Residential	320503	50	65	29	25	28	22	21	34	28	35	31	29
Residential	320507	50	65	37	42	44	38	33	41	35	43	38	36
Residential	320524	50	65	38	44	47	41	35	42	36	44	42	41

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	320550	50	65	44	48	51	45	39	47	41	50	45	44
Residential	320551	50	65	34	36	38	32	27	38	33	40	32	30
Residential	320555	50	65	36	42	44	38	33	40	35	42	38	36
Residential	320557	50	65	55	60	62	58	50	58	53	61	68	66
Residential	320562	50	65	34	41	43	37	32	39	33	40	38	36
Residential	320567	50	65	26	28	31	25	22	31	25	32	29	27
Residential	320568	50	65	35	41	43	37	32	38	33	40	39	37
Residential	320569	50	65	24	22	25	20	<20	29	23	30	26	23
Residential	320570	50	65	34	40	43	37	32	39	33	40	38	36
Residential	320572	50	65	38	44	47	40	35	42	36	43	42	40
Residential	320573	50	65	40	44	46	41	35	43	38	46	41	39
Residential	320574	50	65	36	33	36	29	25	40	34	42	36	35
Residential	320575	50	65	31	30	33	27	23	36	30	37	32	30
Residential	320576	50	65	35	34	36	30	26	40	34	41	36	34
Residential	320577	50	65	37	34	37	31	31	40	35	42	36	35
Residential	320579	50	65	38	37	40	34	29	42	37	44	35	33
Residential	320580	50	65	37	42	45	38	33	41	35	43	39	37
Residential	320581	50	65	55	59	61	57	49	57	51	60	66	65
Residential	320582	50	65	36	37	39	35	31	40	34	42	34	32
Residential	320583	50	65	35	32	35	29	25	39	33	41	36	34
Residential	320584	50	65	43	48	50	45	38	46	41	48	47	45
Residential	320585	50	65	35	32	34	28	24	39	33	40	36	34
Residential	320586	50	65	29	27	31	24	22	34	28	35	30	28
Residential	320587	50	65	35	41	44	38	33	39	33	41	39	37
Residential	320588	50	65	36	42	45	39	33	40	35	42	40	39
Residential	320589	50	65	39	45	47	41	36	43	37	45	42	41
Residential	320590	50	65	38	44	47	41	35	42	36	44	41	39
Residential	320591	50	65	37	35	38	31	30	40	35	42	34	33
Residential	320592	50	65	38	44	47	41	36	43	37	44	42	41
Residential	320593	50	65	39	45	48	42	36	43	37	45	43	41
Residential	320594	50	65	33	39	42	36	31	37	32	39	34	32
Residential	320596	50	65	27	32	35	29	25	32	26	32	29	27
Residential	320597	50	65	39	44	47	41	35	42	37	45	42	40
Residential	320598	50	65	44	49	52	46	40	48	42	50	48	46
Residential	320599	50	65	44	50	52	46	40	47	42	50	49	47
Residential	320600	50	65	36	32	35	29	25	40	34	42	37	35
Residential	320601	50	65	42	45	48	42	36	45	39	48	42	40
Residential	320602	50	65	41	45	48	42	36	44	39	47	43	41
Residential	320603	50	65	37	42	45	39	34	41	35	43	39	38
Residential	320604	50	65	34	40	43	37	32	38	33	40	38	36
Residential	320605	50	65	33	35	38	32	28	37	32	39	33	31
Residential	320606	50	65	41	46	49	43	37	44	39	47	44	42
Residential	320607	50	65	29	23	27	22	20	34	28	35	31	29
Residential	320612	50	65	31	37	40	34	30	36	30	36	30	29
Residential	320645	50	65	42	45	48	42	36	45	39	48	42	40
Residential	320646	50	65	36	33	36	30	26	40	34	42	36	35

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	320647	50	65	33	28	31	26	23	37	32	39	32	30
Residential	320658	50	65	29	23	27	21	20	33	28	34	30	28
Residential	320661	50	65	35	35	38	31	27	39	34	41	34	32
Residential	320665	50	65	37	43	45	39	34	41	35	42	39	38
Residential	320669	50	65	29	36	38	32	28	34	28	35	27	24
Residential	320678	50	65	32	26	29	26	24	36	31	37	33	32
Residential	320684	50	65	27	<20	22	<20	<20	33	27	34	28	26
Residential	320685	50	65	26	21	25	<20	<20	31	25	31	28	26
Residential	320686	50	65	37	29	32	26	22	40	34	42	38	37
Residential	320687	50	65	35	21	25	<20	22	39	34	40	34	32
Residential	320688	50	65	28	21	24	<20	<20	33	27	33	29	27
Residential	320689	50	65	30	20	24	<20	<20	34	29	35	31	29
Residential	320691	50	65	33	21	24	<20	<20	37	32	38	32	30
Residential	320692	50	65	32	20	24	<20	<20	36	31	37	28	26
Residential	320695	50	65	28	21	24	<20	<20	33	27	33	28	26
Residential	320698	50	65	28	20	24	<20	<20	33	27	34	27	25
Residential	320700	50	65	31	21	25	<20	<20	36	30	36	29	27
Residential	320704	50	65	27	<20	23	<20	<20	32	27	32	27	25
Residential	320707	50	65	30	27	30	24	22	35	29	35	32	30
Residential	320708	50	65	33	20	24	<20	21	37	32	39	35	33
Residential	320709	50	65	30	20	24	<20	<20	34	29	33	29	27
Residential	320710	50	65	28	<20	23	<20	<20	33	28	34	28	26
Residential	320713	50	65	27	20	24	<20	<20	32	26	32	26	23
Residential	320714	50	65	33	21	25	<20	<20	37	31	38	32	30
Residential	320716	50	65	31	37	39	34	29	35	29	36	44	42
Residential	320718	50	65	33	20	24	<20	<20	37	31	37	32	30
Residential	320719	50	65	26	20	24	<20	<20	31	26	32	29	27
Residential	320720	50	65	26	<20	23	<20	<20	30	25	31	26	23
Residential	320721	50	65	26	<20	24	<20	<20	31	26	32	28	25
Residential	320722	50	65	27	<20	24	<20	<20	32	26	32	29	27
Residential	320724	50	65	35	22	25	<20	<20	39	33	41	34	32
Residential	320728	50	65	28	21	25	<20	<20	33	27	32	29	27
Residential	320733	50	65	28	20	24	<20	<20	33	27	34	30	29
Residential	320734	50	65	27	21	25	<20	<20	32	26	32	28	26
Residential	320739	50	65	30	<20	24	<20	<20	34	29	34	29	27
Residential	320740	50	65	40	24	27	21	<20	43	38	46	36	35
Residential	320742	50	65	26	22	25	<20	<20	31	26	32	28	26
Residential	320743	50	65	33	22	26	<20	<20	38	32	38	32	31
Residential	320744	50	65	29	20	25	<20	<20	34	28	33	29	27
Residential	320753	50	65	26	21	25	<20	<20	31	26	32	28	26
Residential	320754	50	65	30	21	24	<20	<20	35	29	36	29	27
Residential	320769	50	65	30	21	25	<20	<20	35	29	36	28	26
Residential	320841	50	65	27	33	36	29	25	32	26	33	29	28
Residential	320844	50	65	36	39	42	37	31	40	34	42	38	36
Residential	320845	50	65	27	32	35	29	25	32	27	32	30	28
Residential	320846	50	65	36	41	43	38	32	39	34	41	38	36

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	320850	50	65	34	37	40	34	29	38	32	40	35	34
Residential	320851	50	65	33	37	39	33	28	37	31	39	35	33
Residential	320854	50	65	27	31	34	28	24	32	27	33	30	28
Residential	320855	50	65	28	32	35	28	24	32	27	33	30	28
Residential	320856	50	65	44	45	48	42	36	47	41	49	46	44
Residential	320857	50	65	44	48	51	45	38	47	41	49	45	43
Residential	320859	50	65	52	50	53	48	41	55	49	56	52	50
Residential	320860	50	65	55	52	55	49	42	57	52	60	54	52
Residential	320863	50	65	35	39	42	36	31	39	33	40	36	34
Residential	320864	50	65	28	32	35	29	25	32	27	33	30	28
Residential	320867	50	65	38	41	44	38	32	41	35	43	39	37
Residential	320870	50	65	37	42	44	39	33	41	35	43	39	37
Residential	320871	50	65	36	41	43	38	32	40	34	42	38	36
Residential	320872	50	65	31	36	39	33	29	35	29	37	33	32
Residential	320873	50	65	37	39	42	36	31	41	35	43	37	35
Residential	320874	50	65	36	38	41	35	30	40	34	42	37	35
Residential	320877	50	65	26	32	35	28	24	31	25	32	29	27
Residential	320878	50	65	26	32	34	28	24	31	25	31	29	27
Residential	320885	50	65	30	35	37	31	27	35	29	35	32	30
Residential	320886	50	65	31	35	37	31	27	35	30	37	33	31
Residential	320889	50	65	58	59	62	57	49	60	54	62	58	56
Residential	320890	50	65	55	55	58	52	45	58	52	60	53	52
Residential	320891	50	65	28	32	35	29	25	33	27	34	29	27
Residential	320892	50	65	29	33	36	30	26	33	28	33	30	28
Residential	320895	50	65	44	48	51	45	39	47	42	50	45	43
Residential	320896	50	65	36	38	41	35	29	40	34	42	37	35
Residential	320897	50	65	36	38	41	35	29	39	34	41	36	34
Residential	320899	50	65	35	38	41	35	30	39	33	40	36	34
Residential	320900	50	65	27	33	36	29	25	32	26	33	30	28
Residential	320934	50	65	30	34	37	31	26	34	28	35	32	30
Residential	320937	50	65	44	41	44	38	33	48	42	50	41	39
Residential	320939	50	65	42	48	50	45	38	46	40	48	45	43
Residential	320940	50	65	29	34	37	31	26	33	27	34	31	29
Residential	320941	50	65	28	32	35	29	25	32	27	32	30	29
Residential	320942	50	65	29	34	37	31	27	33	28	35	31	29
Residential	320943	50	65	30	35	38	32	27	34	28	35	32	30
Residential	320946	50	65	44	48	50	45	38	47	41	49	45	43
Residential	320947	50	65	34	35	38	33	28	38	32	40	34	33
Residential	320951	50	65	56	48	51	46	39	59	53	57	55	53
Residential	320954	50	65	34	38	41	35	30	38	32	39	36	34
Residential	320955	50	65	32	35	38	32	27	36	30	37	33	31
Residential	320957	50	65	29	35	37	31	26	34	28	35	31	29
Residential	320977	50	65	55	57	59	55	47	58	52	60	55	53
Residential	320980	50	65	36	36	39	33	29	40	34	40	33	31
Residential	320985	50	65	39	41	44	38	32	42	37	44	40	38
Residential	320986	50	65	37	39	42	36	31	40	35	42	37	36

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	320987	50	65	28	33	36	30	26	33	27	34	31	29
Residential	320988	50	65	26	31	34	27	24	31	26	32	29	27
Residential	320990	50	65	47	29	32	26	23	51	45	54	46	44
Residential	320991	50	65	26	32	35	28	24	30	25	31	28	26
Residential	320992	50	65	26	32	35	28	24	31	25	31	29	27
Residential	320994	50	65	26	32	35	29	25	31	25	32	29	27
Residential	320996	50	65	28	34	37	30	26	33	27	34	31	29
Residential	320997	50	65	35	37	40	35	30	39	33	40	36	35
Residential	321001	50	65	38	41	44	38	33	42	36	44	38	36
Residential	321016	50	65	41	34	37	31	26	45	39	47	33	31
Residential	321017	50	65	35	38	41	35	30	39	33	41	36	35
Residential	321019	50	65	44	41	44	38	33	47	41	49	42	40
Residential	321020	50	65	49	45	48	43	36	52	46	54	46	44
Residential	321021	50	65	35	38	41	36	30	39	33	41	36	34
Residential	321024	50	65	33	37	40	34	29	37	32	39	35	33
Residential	321025	50	65	33	34	38	32	28	37	31	39	35	33
Residential	321031	50	65	37	43	46	40	34	40	34	41	40	38
Residential	321032	50	65	50	50	53	48	41	53	47	54	48	47
Residential	321033	50	65	52	53	55	50	43	55	50	56	52	50
Residential	321034	50	65	49	50	53	48	41	52	47	54	49	48
Residential	321061	50	65	28	33	35	29	25	33	27	34	31	29
Residential	321062	50	65	28	32	35	29	25	32	27	33	30	28
Residential	321064	50	65	29	33	36	30	26	34	28	35	31	29
Residential	321065	50	65	29	33	36	30	26	33	27	34	31	29
Residential	321066	50	65	26	32	35	29	25	31	25	31	29	27
Residential	321067	50	65	30	35	38	32	27	34	28	35	32	30
Residential	321068	50	65	30	35	38	31	27	34	29	35	32	30
Residential	321069	50	65	29	34	37	31	26	33	27	34	31	29
Residential	321073	50	65	37	42	45	39	34	41	35	43	39	38
Residential	321075	50	65	41	40	43	37	31	44	39	47	39	38
Residential	321077	50	65	27	32	34	28	24	31	25	32	29	27
Residential	321098	50	65	36	35	38	32	28	39	34	41	36	34
Residential	321099	50	65	35	38	41	35	30	39	33	41	37	35
Residential	321100	50	65	35	33	36	31	28	39	33	41	37	35
Residential	321104	50	65	37	39	42	37	31	41	35	43	38	37
Residential	321106	50	65	25	29	32	26	23	29	24	30	27	25
Residential	321111	50	65	34	38	41	35	30	38	32	39	35	34
Residential	321118	50	65	39	42	44	39	33	42	36	44	40	38
Residential	321123	50	65	27	32	35	29	25	32	26	33	29	27
Residential	321124	50	65	43	40	43	37	31	46	41	47	43	42
Residential	321135	50	65	36	41	44	38	32	40	34	42	38	36
Residential	321141	50	65	45	41	43	38	32	48	42	49	44	43
Residential	321142	50	65	26	32	35	28	24	31	25	31	29	27
Residential	321144	50	65	30	37	40	33	29	34	29	35	34	32
Residential	321147	50	65	47	51	53	48	41	50	44	50	48	46
Residential	321155	50	65	26	31	34	27	24	31	26	31	28	26

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321182	50	65	29	35	38	32	27	34	28	35	32	30
Residential	321184	50	65	62	57	60	56	48	64	59	65	69	68
Residential	321185	50	65	27	33	36	30	25	32	26	33	30	28
Residential	321186	50	65	26	32	34	28	24	30	25	31	28	26
Residential	321192	50	65	38	39	42	36	31	41	35	43	39	37
Residential	321197	50	65	40	30	33	27	25	44	38	46	43	41
Residential	321198	50	65	44	44	47	41	35	47	41	49	41	40
Residential	321199	50	65	30	36	38	32	28	34	28	35	32	31
Residential	321200	50	65	30	36	39	32	28	34	29	36	33	32
Residential	321205	50	65	27	32	35	29	25	31	26	32	29	27
Residential	321206	50	65	26	31	34	28	24	31	25	32	28	26
Residential	321207	50	65	27	32	34	28	24	31	26	32	29	27
Residential	321208	50	65	26	31	34	28	24	31	25	32	28	26
Residential	321209	50	65	26	31	34	28	24	31	25	32	29	27
Residential	321210	50	65	36	43	46	40	34	40	34	42	38	37
Residential	321214	50	65	28	34	37	30	26	33	27	34	31	29
Residential	321231	50	65	26	30	33	27	24	30	25	31	28	26
Residential	321233	50	65	34	38	41	35	29	38	32	39	35	33
Residential	321237	50	65	32	37	39	33	28	36	30	38	34	32
Residential	321241	50	65	26	31	34	28	24	30	25	31	28	26
Residential	321246	50	65	44	45	48	42	36	47	41	47	44	43
Residential	321247	50	65	29	33	36	30	26	33	27	34	31	29
Residential	321248	50	65	28	33	35	29	25	32	27	32	31	29
Residential	321249	50	65	47	45	48	42	37	50	45	52	47	45
Residential	321250	50	65	36	38	41	35	29	40	34	42	37	35
Residential	321252	50	65	35	40	43	37	31	39	33	41	37	35
Residential	321254	50	65	41	43	46	41	35	45	39	47	41	40
Residential	321256	50	65	38	42	45	39	33	42	37	44	39	38
Residential	321258	50	65	39	44	46	41	34	42	37	44	41	39
Residential	321277	50	65	30	36	39	32	28	34	28	36	33	31
Residential	321281	50	65	35	37	40	34	29	39	34	41	34	32
Residential	321282	50	65	32	37	40	34	29	36	31	37	35	33
Residential	321283	50	65	32	36	39	33	28	36	31	38	33	31
Residential	321284	50	65	43	46	48	44	35	46	41	49	44	42
Residential	321286	50	65	40	42	44	40	35	44	38	46	40	38
Residential	321292	50	65	40	43	46	40	34	43	37	45	40	39
Residential	321294	50	65	33	37	40	34	29	37	31	39	35	33
Residential	321296	50	65	46	51	53	47	40	49	43	51	48	47
Residential	321297	50	65	44	47	49	44	38	47	41	49	46	44
Residential	321299	50	65	28	34	36	30	26	33	27	34	31	29
Residential	321300	50	65	30	35	37	31	27	35	29	36	32	30
Residential	321301	50	65	28	31	34	28	25	32	27	34	30	28
Residential	321303	50	65	26	31	34	28	24	31	25	31	28	26
Residential	321305	50	65	32	36	39	34	30	36	31	36	33	31
Residential	321309	50	65	30	30	33	27	25	34	28	34	32	30
Residential	321332	50	65	54	51	53	48	41	56	50	57	52	50

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321339	50	65	26	31	34	28	24	31	25	32	28	26
Residential	321343	50	65	27	32	35	29	25	32	26	32	30	28
Residential	321344	50	65	29	34	37	31	26	33	27	34	31	29
Residential	321346	50	65	24	30	33	27	23	29	24	30	27	25
Residential	321347	50	65	26	31	34	28	24	30	25	31	29	26
Residential	321352	50	65	30	34	37	31	26	34	28	35	32	30
Residential	321353	50	65	30	34	36	30	26	34	28	35	32	30
Residential	321354	50	65	35	37	40	34	29	38	33	40	35	34
Residential	321356	50	65	30	34	37	30	26	34	29	34	31	29
Residential	321357	50	65	30	34	37	31	26	35	29	34	32	30
Residential	321358	50	65	36	39	41	37	32	40	34	42	36	35
Residential	321370	50	65	41	44	47	42	36	44	38	46	42	40
Residential	321371	50	65	34	37	40	34	29	38	32	40	35	33
Residential	321372	50	65	38	42	45	40	33	42	36	44	39	37
Residential	321373	50	65	37	40	43	37	31	40	35	42	38	36
Residential	321375	50	65	27	32	35	29	25	32	26	33	30	28
Residential	321376	50	65	27	32	34	28	24	31	26	32	29	27
Residential	321379	50	65	29	34	37	31	26	34	28	35	31	29
Residential	321381	50	65	53	38	41	35	29	56	50	59	52	50
Residential	321383	50	65	36	40	43	37	31	40	34	41	37	36
Residential	321385	50	65	37	40	43	37	31	41	35	43	38	37
Residential	321391	50	65	26	30	33	27	24	31	25	31	28	26
Residential	321394	50	65	36	37	40	33	28	39	34	41	37	35
Residential	321417	50	65	27	33	36	30	25	32	26	33	30	28
Residential	321422	50	65	27	32	35	28	25	31	25	32	29	27
Residential	321429	50	65	48	53	55	50	43	51	46	54	50	48
Residential	321431	50	65	27	32	35	29	25	31	26	32	29	27
Residential	321433	50	65	27	32	35	29	25	32	26	33	29	27
Residential	321434	50	65	27	32	35	29	25	32	26	33	30	28
Residential	321435	50	65	29	34	37	31	27	34	28	35	31	29
Residential	321436	50	65	34	39	42	36	30	38	32	40	36	34
Residential	321437	50	65	26	30	33	27	23	31	26	31	28	26
Residential	321438	50	65	29	33	36	30	26	34	28	35	31	30
Residential	321439	50	65	29	33	36	30	25	33	28	34	31	29
Residential	321440	50	65	37	42	45	39	33	41	35	43	39	37
Residential	321448	50	65	36	41	43	38	32	40	34	42	38	36
Residential	321451	50	65	34	39	42	36	31	38	33	40	37	35
Residential	321452	50	65	36	42	45	39	33	39	34	41	39	37
Residential	321457	50	65	63	53	56	50	43	66	60	65	60	59
Residential	321458	50	65	63	54	57	51	44	66	60	66	60	59
Residential	321485	50	65	28	32	35	29	25	32	26	33	30	28
Residential	321486	50	65	33	36	39	33	28	37	31	39	34	32
Residential	321489	50	65	40	44	47	41	34	43	38	45	41	40
Residential	321490	50	65	35	40	43	37	31	39	33	40	37	35
Residential	321491	50	65	35	40	43	37	31	39	33	40	37	35
Residential	321492	50	65	37	41	44	41	35	41	35	42	38	37

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321494	50	65	24	30	33	27	24	29	24	30	27	25
Residential	321496	50	65	26	31	34	28	24	31	25	31	28	26
Residential	321502	50	65	25	29	33	27	23	30	24	30	27	25
Residential	321504	50	65	42	47	50	44	38	45	40	47	53	52
Residential	321533	50	65	30	36	38	34	30	34	29	35	34	32
Residential	321535	50	65	26	31	34	27	24	30	25	31	28	26
Residential	321539	50	65	49	43	46	42	36	52	46	54	47	46
Residential	321540	50	65	38	40	43	37	32	42	36	44	39	37
Residential	321541	50	65	35	38	41	36	31	39	33	41	37	35
Residential	321543	50	65	26	31	34	28	24	31	26	32	29	27
Residential	321544	50	65	32	37	39	36	31	36	30	37	34	32
Residential	321546	50	65	39	41	44	38	33	43	37	45	39	37
Residential	321548	50	65	46	45	48	43	37	50	44	52	45	43
Residential	321549	50	65	49	48	50	45	38	52	46	54	49	48
Residential	321551	50	65	30	34	37	31	26	34	28	35	32	30
Residential	321555	50	65	46	48	51	45	39	49	43	48	47	45
Residential	321561	50	65	26	31	34	28	24	30	25	31	28	26
Residential	321562	50	65	26	30	33	27	24	30	25	31	28	26
Residential	321563	50	65	36	38	41	35	29	40	34	42	37	35
Residential	321564	50	65	37	39	41	36	30	41	35	43	38	37
Residential	321566	50	65	26	31	35	28	24	31	25	32	29	27
Residential	321567	50	65	31	37	39	33	28	35	29	37	33	32
Residential	321568	50	65	37	42	45	39	34	40	35	42	39	37
Residential	321569	50	65	40	42	45	39	34	44	38	46	39	37
Residential	321578	50	65	30	34	37	31	27	35	29	36	31	29
Residential	321581	50	65	35	40	43	37	31	39	33	40	38	36
Residential	321582	50	65	25	29	32	27	24	30	24	30	27	25
Residential	321583	50	65	27	33	36	30	25	32	26	32	30	28
Residential	321584	50	65	32	38	40	34	29	36	30	38	34	33
Residential	321585	50	65	48	52	55	50	42	51	45	53	50	48
Residential	321586	50	65	28	33	35	29	25	33	27	34	31	29
Residential	321587	50	65	29	35	38	32	27	34	28	35	33	31
Residential	321589	50	65	25	31	34	28	24	30	24	31	28	26
Residential	321590	50	65	26	32	35	29	25	31	25	32	29	27
Residential	321605	50	65	42	47	50	45	38	46	40	48	45	43
Residential	321612	50	65	28	34	37	31	26	33	28	33	31	29
Residential	321613	50	65	29	34	37	31	27	33	28	35	31	29
Residential	321618	50	65	58	59	61	57	49	60	54	62	57	55
Residential	321631	50	65	29	20	24	<20	<20	33	28	33	29	27
Residential	321632	50	65	29	21	24	<20	<20	33	28	34	31	29
Residential	321633	50	65	26	20	24	<20	<20	31	25	32	28	26
Residential	321634	50	65	29	21	25	<20	<20	34	28	32	27	25
Residential	321644	50	65	30	27	31	25	23	35	29	35	31	29
Residential	321645	50	65	37	24	27	21	<20	41	35	42	35	33
Residential	321646	50	65	25	22	26	<20	<20	32	27	31	28	26
Residential	321648	50	65	26	21	25	<20	<20	31	25	31	28	26

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321650	50	65	26	20	24	<20	<20	31	26	32	29	27
Residential	321655	50	65	24	<20	22	<20	<20	29	24	30	26	24
Residential	321656	50	65	27	20	24	<20	<20	32	26	31	28	26
Residential	321657	50	65	33	21	25	<20	<20	37	31	38	32	30
Residential	321658	50	65	28	20	24	<20	<20	33	27	34	31	29
Residential	321659	50	65	28	<20	24	<20	<20	33	27	34	31	29
Residential	321660	50	65	32	36	38	32	28	36	31	38	34	32
Residential	321663	50	65	26	20	24	<20	<20	31	25	31	27	25
Residential	321665	50	65	29	<20	24	<20	<20	34	28	35	29	27
Residential	321666	50	65	26	21	25	<20	<20	30	25	31	27	25
Residential	321676	50	65	32	22	26	<20	<20	36	31	37	32	30
Residential	321677	50	65	31	21	25	<20	<20	35	29	36	32	30
Residential	321678	50	65	31	21	25	<20	<20	35	30	36	28	26
Residential	321679	50	65	31	21	25	<20	<20	36	30	35	32	30
Residential	321682	50	65	28	<20	23	<20	<20	33	28	34	29	26
Residential	321687	50	65	39	22	25	23	21	43	37	44	37	35
Residential	321688	50	65	40	24	27	21	<20	43	38	45	35	33
Residential	321689	50	65	37	32	35	29	25	41	35	43	39	37
Residential	321690	50	65	26	21	25	<20	<20	31	26	32	29	27
Residential	321691	50	65	33	30	33	27	28	37	32	39	35	34
Residential	321694	50	65	29	20	24	<20	<20	33	28	34	27	25
Residential	321695	50	65	29	21	24	<20	<20	33	28	34	27	25
Residential	321696	50	65	28	20	24	<20	<20	33	27	34	31	29
Residential	321697	50	65	28	<20	24	<20	<20	33	27	33	29	27
Residential	321698	50	65	29	20	24	<20	<20	33	28	33	29	27
Residential	321699	50	65	27	21	25	<20	<20	31	26	32	29	27
Residential	321701	50	65	34	21	25	22	21	39	33	39	33	31
Residential	321702	50	65	28	<20	23	<20	<20	33	27	33	28	26
Residential	321706	50	65	33	22	26	<20	<20	38	32	39	33	31
Residential	321708	50	65	32	38	41	35	30	36	31	37	46	45
Residential	321709	50	65	28	<20	24	<20	<20	33	27	33	28	25
Residential	321715	50	65	28	21	24	<20	<20	33	27	33	28	26
Residential	321716	50	65	28	21	24	<20	<20	33	27	33	29	27
Residential	321717	50	65	32	21	25	<20	<20	37	31	38	31	29
Residential	321718	50	65	29	<20	24	<20	<20	33	28	33	29	27
Residential	321723	50	65	26	21	25	<20	<20	31	25	32	27	24
Residential	321724	50	65	26	21	25	<20	<20	31	25	32	29	27
Residential	321725	50	65	25	20	24	<20	<20	30	25	31	26	24
Residential	321726	50	65	32	21	25	<20	<20	36	30	37	32	31
Residential	321727	50	65	33	21	25	<20	<20	37	32	38	32	30
Residential	321733	50	65	33	21	24	<20	<20	37	32	38	33	31
Residential	321735	50	65	27	20	24	<20	<20	32	26	33	28	26
Residential	321737	50	65	31	<20	24	<20	<20	35	30	37	31	29
Residential	321740	50	65	35	22	25	<20	22	39	34	40	34	32
Residential	321742	50	65	27	<20	23	<20	<20	31	26	31	25	23
Residential	321743	50	65	35	30	33	26	23	38	33	40	36	35

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321747	50	65	31	29	32	27	24	36	30	37	33	31
Residential	321748	50	65	33	26	29	25	23	37	31	38	33	31
Residential	321751	50	65	26	<20	22	<20	<20	32	26	33	26	24
Residential	321752	50	65	30	21	25	<20	<20	34	29	35	31	30
Residential	321753	50	65	25	22	26	<20	<20	31	25	31	28	26
Residential	321755	50	65	32	36	39	32	28	37	31	38	34	33
Residential	321756	50	65	29	20	24	<20	<20	33	27	34	31	29
Residential	321758	50	65	31	21	25	<20	<20	35	30	36	29	27
Residential	321759	50	65	33	22	25	<20	<20	37	31	38	32	30
Residential	321760	50	65	35	22	25	<20	21	39	33	40	34	32
Residential	321762	50	65	28	<20	23	<20	<20	33	27	33	28	26
Residential	321770	50	65	41	30	34	27	25	45	39	47	44	42
Residential	321789	50	65	29	33	36	30	26	33	27	34	31	29
Residential	321813	50	65	29	33	36	30	25	33	28	33	31	29
Residential	321814	50	65	25	30	33	27	24	30	24	31	28	25
Residential	321819	50	65	28	31	35	28	25	33	27	34	30	28
Residential	321821	50	65	46	50	52	47	40	48	43	51	46	45
Residential	321822	50	65	30	35	38	32	27	35	29	36	32	30
Residential	321842	50	65	35	40	42	37	31	39	34	41	37	36
Residential	321890	50	65	28	34	37	30	26	33	27	34	31	29
Residential	321903	50	65	29	34	37	30	26	33	27	34	31	29
Residential	321904	50	65	28	34	36	30	26	33	27	34	31	29
Residential	321907	50	65	40	45	48	42	36	44	38	46	43	41
Residential	321908	50	65	34	37	40	35	30	38	32	39	35	34
Residential	321909	50	65	46	51	54	48	41	49	44	50	48	47
Residential	321910	50	65	43	41	44	38	32	46	40	48	41	40
Residential	321911	50	65	27	33	36	30	25	32	26	33	30	28
Residential	321915	50	65	26	31	33	27	24	31	25	31	28	26
Residential	321920	50	65	51	49	52	46	39	54	48	56	49	48
Residential	321935	50	65	26	32	35	29	24	31	25	32	29	27
Residential	321936	50	65	28	33	36	29	25	32	27	33	31	30
Residential	321944	50	65	33	38	40	35	29	38	32	39	35	33
Residential	321947	50	65	33	38	41	35	29	37	31	38	35	33
Residential	321955	50	65	27	32	36	29	25	32	26	33	30	28
Residential	321957	50	65	39	38	41	37	31	43	37	45	40	39
Residential	321961	50	65	34	36	39	33	29	38	32	40	35	33
Residential	321963	50	65	29	31	34	28	24	34	28	35	31	29
Residential	321964	50	65	27	33	36	30	25	32	26	33	30	28
Residential	321965	50	65	32	36	39	34	30	36	30	36	33	31
Residential	321968	50	65	32	36	39	33	28	37	31	38	35	34
Residential	321970	50	65	29	34	37	30	26	33	28	35	31	29
Residential	321971	50	65	28	32	35	29	25	32	27	33	30	28
Residential	321973	50	65	34	29	32	26	23	39	33	41	38	36
Residential	321974	50	65	51	51	54	49	42	53	47	55	49	47
Residential	321975	50	65	62	46	49	44	41	65	59	61	58	56
Residential	321976	50	65	26	29	33	27	24	31	25	31	28	26

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321977	50	65	40	40	43	37	31	44	38	46	39	37
Residential	321978	50	65	35	40	42	37	31	39	33	40	37	35
Residential	321979	50	65	30	35	38	32	28	34	28	36	33	31
Residential	321980	50	65	27	32	35	29	25	32	26	33	29	27
Residential	321982	50	65	47	52	54	49	42	50	45	53	72	70
Residential	321987	50	65	34	39	42	36	31	38	32	39	36	35
Residential	321996	50	65	30	34	37	31	26	35	29	36	32	30
Residential	321999	50	65	35	38	41	35	29	39	33	41	37	35
Residential	322005	50	65	38	41	44	40	34	41	36	43	38	36
Residential	322011	50	65	40	43	45	40	34	43	37	46	41	39
Residential	322013	50	65	40	43	46	41	34	44	38	45	41	39
Residential	322021	50	65	29	33	36	30	26	33	27	34	31	29
Residential	322029	50	65	42	36	39	32	28	46	40	48	35	33
Residential	322031	50	65	44	37	40	34	29	46	41	49	37	35
Residential	322032	50	65	34	40	42	36	31	38	32	40	37	35
Residential	322033	50	65	37	42	45	41	35	40	35	42	40	38
Residential	322034	50	65	43	49	52	46	39	47	41	45	46	44
Residential	322036	50	65	46	51	53	48	41	49	43	52	48	47
Residential	322037	50	65	50	47	50	45	38	52	46	54	49	48
Residential	322038	50	65	31	34	37	31	26	35	30	37	33	31
Residential	322039	50	65	26	31	34	28	24	31	25	32	28	26
Residential	322040	50	65	31	37	39	33	28	35	29	37	37	35
Residential	322041	50	65	44	49	52	46	40	48	42	48	46	45
Residential	322042	50	65	43	46	49	44	37	47	41	48	43	42
Residential	322043	50	65	41	44	47	42	35	45	39	47	42	40
Residential	322044	50	65	50	54	57	51	44	53	47	55	51	50
Residential	322046	50	65	42	47	49	43	37	45	40	47	43	42
Residential	322047	50	65	57	57	60	55	47	59	54	61	55	53
Residential	322048	50	65	50	51	53	48	41	52	47	54	49	47
Residential	322049	50	65	30	36	38	32	27	34	29	36	33	31
Residential	322050	50	65	43	40	43	37	31	46	41	49	40	38
Residential	322051	50	65	26	31	33	27	23	31	25	31	28	26
Residential	322052	50	65	39	42	45	39	33	43	37	45	40	39
Residential	322053	50	65	39	40	42	36	31	42	36	44	39	38
Residential	322072	50	65	34	38	40	35	29	38	32	39	35	33
Residential	322073	50	65	36	38	41	35	30	40	34	42	37	35
Residential	322074	50	65	25	30	33	27	23	30	24	30	27	25
Residential	322076	50	65	38	42	45	39	35	42	36	42	40	38
Residential	322077	50	65	43	46	48	43	38	47	41	48	44	43
Residential	322078	50	65	29	34	37	31	27	33	28	35	31	29
Residential	322089	50	65	25	29	32	26	23	30	25	31	28	25
Residential	322096	50	65	44	41	44	38	32	47	41	49	42	40
Residential	322103	50	65	35	40	43	37	31	40	34	41	37	35
Residential	322104	50	65	43	45	48	42	36	46	40	48	43	41
Residential	322111	50	65	37	38	40	35	31	40	35	42	38	36
Residential	322112	50	65	25	31	34	28	24	30	25	31	29	26

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322115	50	65	51	49	51	46	39	53	48	56	49	47
Residential	322116	50	65	32	38	40	35	30	36	31	38	35	33
Residential	322117	50	65	54	49	52	47	40	56	51	59	52	50
Residential	322118	50	65	27	33	36	30	25	32	26	33	30	28
Residential	322119	50	65	28	34	37	31	26	33	27	34	31	29
Residential	322120	50	65	45	49	52	46	40	49	43	51	55	54
Residential	322122	50	65	33	36	39	33	28	37	31	38	34	32
Residential	322123	50	65	39	40	43	37	32	43	37	45	40	38
Residential	322124	50	65	27	33	36	30	26	32	26	33	30	28
Residential	322125	50	65	48	45	48	42	36	51	46	54	47	45
Residential	322127	50	65	25	31	34	28	24	30	24	31	28	26
Residential	322128	50	65	43	41	44	42	36	46	41	49	44	42
Residential	322129	50	65	31	35	38	32	28	35	29	37	32	30
Residential	322130	50	65	26	31	34	28	24	31	25	32	29	27
Residential	322131	50	65	43	47	49	44	37	46	40	48	43	42
Residential	322134	50	65	59	45	48	45	39	61	55	62	55	53
Residential	322135	50	65	57	46	49	45	39	60	54	61	54	52
Residential	322136	50	65	57	52	55	49	42	60	54	61	56	54
Residential	322139	50	65	51	51	54	48	41	53	48	55	50	49
Residential	322140	50	65	32	38	41	35	30	37	31	38	35	33
Residential	322142	50	65	42	45	48	43	36	46	40	47	42	41
Residential	322145	50	65	29	35	37	31	27	34	28	35	32	30
Residential	322153	50	65	42	45	48	43	37	46	40	48	43	41
Residential	322156	50	65	35	39	41	35	30	39	33	40	37	35
Residential	322166	50	65	40	44	46	41	35	43	38	46	41	39
Residential	322169	50	65	28	33	36	30	25	33	27	34	30	28
Residential	322170	50	65	27	31	34	27	24	31	26	32	29	27
Residential	322173	50	65	27	32	35	29	25	31	25	32	29	27
Residential	322180	50	65	27	32	35	29	25	32	26	33	29	27
Residential	322190	50	65	35	40	43	37	31	38	33	40	37	35
Residential	322192	50	65	40	41	44	38	33	44	38	46	37	36
Residential	322194	50	65	44	50	52	46	40	48	42	50	47	45
Residential	322195	50	65	54	50	52	47	40	56	50	54	49	48
Residential	322197	50	65	26	31	34	27	24	30	25	31	28	26
Residential	322198	50	65	31	35	38	32	27	35	30	36	32	31
Residential	322199	50	65	29	34	37	30	26	33	27	34	31	29
Residential	322202	50	65	31	35	37	31	27	35	30	37	33	31
Residential	322204	50	65	24	29	33	27	23	29	23	30	27	25
Residential	322205	50	65	28	33	35	29	25	32	27	33	30	28
Residential	322207	50	65	35	37	40	34	29	39	33	41	36	34
Residential	322208	50	65	36	37	41	35	30	40	34	42	36	34
Residential	322214	50	65	44	41	44	38	32	48	42	50	43	41
Residential	322215	50	65	32	35	38	32	27	36	30	37	33	32
Residential	322218	50	65	40	41	44	38	33	44	38	46	38	36
Residential	322233	50	65	28	20	25	<20	<20	33	27	33	28	26
Residential	322235	50	65	48	52	54	49	42	50	44	53	60	58

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322236	50	65	27	32	35	29	25	31	26	32	29	27
Residential	322237	50	65	33	36	39	33	28	37	32	39	35	33
Residential	322238	50	65	43	44	47	46	39	46	40	48	46	45
Residential	322239	50	65	34	37	40	34	29	38	32	39	35	34
Residential	322241	50	65	36	40	42	36	31	40	34	41	38	37
Residential	322242	50	65	41	43	46	42	36	45	40	47	40	38
Residential	322243	50	65	30	35	38	32	27	34	28	36	32	31
Residential	322244	50	65	25	29	33	26	23	30	24	30	27	25
Residential	322245	50	65	32	36	39	35	30	36	31	38	33	31
Residential	322246	50	65	55	53	56	51	43	58	52	60	54	52
Residential	322249	50	65	34	39	42	36	32	37	32	38	36	34
Residential	322252	50	65	38	32	35	29	25	42	36	44	40	38
Residential	322255	50	65	28	34	37	30	26	33	27	34	31	29
Residential	322258	50	65	35	41	43	38	32	39	33	41	38	36
Residential	322259	50	65	37	42	45	39	33	41	35	43	39	37
Residential	322262	50	65	25	29	32	26	23	30	25	31	27	25
Residential	322267	50	65	26	31	34	28	24	31	25	32	29	27
Residential	322269	50	65	29	33	36	30	25	33	27	34	30	29
Residential	322278	50	65	37	39	41	36	30	41	35	43	38	36
Residential	322281	50	65	34	37	40	34	29	38	32	40	36	34
Residential	322282	50	65	28	33	36	30	26	32	27	34	30	28
Residential	322292	50	65	30	35	37	31	26	34	28	36	32	30
Residential	322293	50	65	25	30	34	27	24	30	24	31	28	26
Residential	322294	50	65	26	32	34	28	24	31	25	31	28	26
Residential	322295	50	65	35	41	43	37	32	38	33	40	38	36
Residential	322296	50	65	43	39	42	36	31	46	41	49	39	37
Residential	322297	50	65	42	38	41	35	31	45	39	47	40	38
Residential	322298	50	65	38	41	44	38	32	41	35	43	39	37
Residential	322302	50	65	46	48	50	45	38	49	43	52	46	44
Residential	322303	50	65	39	42	45	40	34	43	37	45	40	39
Residential	322304	50	65	28	33	36	30	25	33	27	33	30	28
Residential	322305	50	65	27	32	34	28	24	32	26	32	29	27
Residential	322306	50	65	32	36	38	33	28	37	31	38	34	32
Residential	322307	50	65	30	36	38	35	31	35	29	36	33	31
Residential	322308	50	65	26	32	35	29	25	31	25	32	29	27
Residential	322309	50	65	45	21	25	<20	<20	49	43	50	33	31
Residential	322312	50	65	27	31	34	29	25	32	27	33	29	27
Residential	322318	50	65	33	36	39	33	29	37	31	39	35	33
Residential	322320	50	65	30	36	38	32	27	34	28	35	32	30
Residential	322323	50	65	26	32	35	29	25	31	25	32	29	27
Residential	322328	50	65	33	39	42	36	31	37	31	38	36	34
Residential	322350	50	65	48	52	55	50	42	51	45	53	50	48
Residential	322353	50	65	29	35	38	32	27	34	28	35	32	30
Residential	322354	50	65	29	34	37	31	26	33	28	34	31	29
Residential	322355	50	65	24	28	32	25	23	29	23	30	27	25
Residential	322356	50	65	40	43	46	40	34	43	38	45	41	39

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322358	50	65	30	35	37	31	27	34	28	35	32	30
Residential	322359	50	65	30	36	39	33	28	35	29	36	33	31
Residential	322363	50	65	27	33	35	29	25	32	26	33	30	29
Residential	322365	50	65	32	38	40	34	29	37	31	38	34	32
Residential	322367	50	65	24	30	33	27	24	29	24	30	27	25
Residential	322368	50	65	27	32	35	29	25	31	26	32	29	27
Residential	322371	50	65	26	32	35	29	25	31	25	32	30	28
Residential	322375	50	65	29	34	37	31	27	33	27	35	31	29
Residential	322384	50	65	35	38	41	35	30	39	33	41	36	35
Residential	322386	50	65	35	37	40	34	29	39	33	41	36	34
Residential	322389	50	65	33	36	39	33	28	37	32	39	35	33
Residential	322391	50	65	50	36	39	33	29	53	47	56	58	56
Residential	322399	50	65	28	34	37	30	26	33	27	34	31	29
Residential	322420	50	65	27	31	34	28	24	32	26	33	30	27
Residential	322421	50	65	34	36	39	33	28	38	32	40	35	33
Residential	322423	50	65	39	41	44	38	32	43	37	45	41	39
Residential	322425	50	65	36	41	44	38	32	40	34	42	38	36
Residential	322426	50	65	33	37	39	34	28	37	31	39	35	33
Residential	322429	50	65	58	53	56	52	45	60	54	62	79	78
Residential	322430	50	65	29	35	37	31	27	34	28	35	31	29
Residential	322432	50	65	40	40	42	36	32	44	38	46	40	38
Residential	322435	50	65	51	48	51	46	38	54	48	56	49	48
Residential	322436	50	65	35	40	43	37	31	38	33	40	37	35
Residential	322439	50	65	32	36	39	33	28	36	31	38	34	32
Residential	322440	50	65	36	37	40	35	30	39	34	41	37	35
Residential	322443	50	65	35	37	40	35	31	39	33	41	35	33
Residential	322444	50	65	43	38	40	37	32	47	41	49	40	38
Residential	322445	50	65	34	39	41	35	30	38	32	39	35	34
Residential	322446	50	65	25	30	33	27	24	30	24	30	28	25
Residential	322448	50	65	39	44	46	41	34	43	37	45	41	39
Residential	322449	50	65	37	41	44	38	32	41	35	42	38	37
Residential	322450	50	65	40	38	41	35	30	44	38	46	38	36
Residential	322451	50	65	31	36	39	33	28	36	30	37	33	31
Residential	322453	50	65	63	46	49	43	38	65	59	63	59	57
Residential	322456	50	65	26	32	35	29	25	31	25	32	29	27
Residential	322458	50	65	29	34	37	32	28	33	28	34	32	30
Residential	322460	50	65	36	38	41	35	30	40	34	42	37	35
Residential	322462	50	65	42	46	48	42	36	45	40	48	42	41
Residential	322470	50	65	25	30	33	27	24	30	24	30	27	25
Residential	322473	50	65	41	35	37	31	28	45	39	48	47	45
Residential	322478	50	65	30	35	38	32	27	34	28	35	32	30
Residential	322486	50	65	26	29	33	27	23	30	25	31	28	26
Residential	322488	50	65	35	39	42	36	31	39	33	41	36	35
Residential	322489	50	65	44	41	44	38	32	47	42	50	43	41
Residential	322490	50	65	47	41	44	42	36	50	45	53	46	44
Residential	322491	50	65	34	40	43	37	31	38	32	40	37	35

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322492	50	65	49	53	56	50	43	52	46	54	51	49
Residential	322493	50	65	48	45	48	42	36	51	46	54	49	47
Residential	322494	50	65	57	54	57	52	44	60	54	62	55	53
Residential	322495	50	65	30	36	38	32	27	34	28	35	32	30
Residential	322496	50	65	42	45	47	42	35	46	40	47	42	41
Residential	322498	50	65	36	38	40	34	30	40	34	42	39	38
Residential	322500	50	65	34	39	41	36	30	38	33	40	36	34
Residential	322501	50	65	27	32	35	28	24	32	26	33	29	28
Residential	322507	50	65	33	37	40	34	28	36	31	38	34	32
Residential	322511	50	65	33	37	39	34	30	37	32	39	34	32
Residential	322514	50	65	30	35	38	32	27	35	29	36	32	30
Residential	322515	50	65	36	40	43	37	31	40	34	41	37	35
Residential	322518	50	65	36	40	43	38	32	40	34	42	38	36
Residential	322522	50	65	26	32	35	29	25	31	25	32	29	27
Residential	322523	50	65	26	31	34	28	24	31	25	31	28	26
Residential	322525	50	65	29	34	37	31	26	33	27	35	31	29
Residential	322526	50	65	28	33	36	30	26	33	27	34	31	29
Residential	322528	50	65	42	46	48	42	36	46	40	48	42	41
Residential	322529	50	65	51	32	35	29	26	54	49	57	53	52
Residential	322530	50	65	36	41	43	37	33	40	35	42	37	35
Residential	322531	50	65	29	34	37	31	27	34	28	35	32	30
Residential	322532	50	65	29	34	37	31	26	33	27	35	31	29
Residential	322533	50	65	26	32	35	29	25	31	25	32	29	27
Residential	322534	50	65	26	31	34	28	24	31	25	32	29	27
Residential	322542	50	65	36	41	44	37	32	40	34	42	38	36
Residential	322543	50	65	45	41	44	38	32	48	42	50	43	42
Residential	322546	50	65	25	30	34	27	24	30	24	31	28	26
Residential	322547	50	65	25	30	34	27	24	30	24	31	28	25
Residential	322549	50	65	25	29	33	26	23	29	24	30	27	25
Residential	322550	50	65	37	40	43	37	32	41	35	42	38	36
Residential	322551	50	65	25	31	34	27	24	30	24	31	28	26
Residential	322552	50	65	64	48	51	45	39	68	62	69	67	65
Residential	322553	50	65	29	35	37	31	26	34	28	35	32	30
Residential	322554	50	65	27	33	36	30	25	32	26	33	30	28
Residential	322557	50	65	29	35	38	31	27	34	28	35	32	30
Residential	322558	50	65	30	35	37	31	27	34	28	35	32	30
Residential	322559	50	65	31	36	39	33	28	35	29	37	33	31
Residential	322561	50	65	37	41	44	38	32	40	34	42	38	37
Residential	322562	50	65	45	50	52	47	40	48	42	48	47	46
Residential	322566	50	65	36	40	43	37	32	40	34	42	38	36
Residential	322567	50	65	47	47	50	44	39	51	45	52	48	46
Residential	322568	50	65	29	34	37	31	26	34	28	35	32	30
Residential	322569	50	65	28	33	36	30	26	32	26	33	30	28
Residential	322574	50	65	29	35	37	31	27	34	28	35	31	29
Residential	322575	50	65	35	37	40	34	29	39	33	41	36	34
Residential	322577	50	65	39	39	42	40	34	43	37	45	40	38

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322578	50	65	39	44	46	41	35	43	37	45	42	40
Residential	322579	50	65	26	31	35	28	24	31	25	32	29	27
Residential	322581	50	65	35	38	41	36	31	39	33	41	37	35
Residential	322582	50	65	28	32	35	28	25	32	26	33	30	28
Residential	322583	50	65	36	39	42	36	30	40	34	42	37	36
Residential	322584	50	65	43	41	44	38	32	46	41	48	40	39
Residential	322589	50	65	40	43	46	40	34	43	38	45	40	39
Residential	322590	50	65	31	35	37	31	27	35	29	36	32	30
Residential	322592	50	65	28	32	35	28	25	33	27	33	30	28
Residential	322593	50	65	28	32	35	29	25	32	26	33	30	28
Residential	322595	50	65	26	32	35	29	25	31	25	32	29	27
Residential	322597	50	65	27	33	36	30	25	32	26	33	30	28
Residential	322598	50	65	30	34	37	31	26	34	28	35	31	29
Residential	322599	50	65	29	33	36	29	25	33	28	34	31	29
Residential	322600	50	65	49	50	53	48	41	53	47	55	51	50
Residential	322602	50	65	36	41	44	38	32	40	34	42	38	37
Residential	322603	50	65	43	48	51	45	39	46	41	48	45	44
Residential	322605	50	65	43	46	49	43	37	47	41	49	43	42
Residential	322606	50	65	41	42	45	39	33	45	39	46	41	39
Residential	322607	50	65	27	33	35	29	25	32	26	33	29	27
Residential	322608	50	65	28	34	37	31	26	33	27	34	31	29
Residential	322609	50	65	29	34	37	30	26	33	28	35	31	29
Residential	322610	50	65	29	34	36	30	26	33	28	35	31	29
Residential	322615	50	65	40	44	47	41	35	44	38	46	41	40
Residential	322617	50	65	40	39	42	37	33	43	38	46	41	39
Residential	322624	50	65	45	39	41	35	30	49	43	51	43	41
Residential	322625	50	65	57	54	56	51	43	60	54	61	56	54
Residential	322627	50	65	34	40	42	36	31	38	32	40	36	34
Residential	322628	50	65	41	36	38	32	27	44	39	47	44	42
Residential	322629	50	65	36	38	40	35	31	40	34	42	38	36
Residential	322630	50	65	40	41	43	38	32	44	38	46	41	39
Residential	322631	50	65	32	37	40	34	29	36	30	38	34	32
Residential	322635	50	65	31	36	38	32	28	34	28	36	33	31
Residential	322636	50	65	33	36	39	33	28	37	31	39	34	32
Residential	322637	50	65	34	37	39	33	28	38	32	39	35	33
Residential	322638	50	65	37	40	42	37	32	41	35	43	39	37
Residential	322639	50	65	30	34	37	31	26	34	29	36	32	30
Residential	322640	50	65	36	36	39	33	29	39	34	41	36	34
Residential	322643	50	65	33	37	40	34	29	37	32	39	35	33
Residential	322644	50	65	34	37	40	34	29	38	32	40	35	33
Residential	322646	50	65	48	49	52	47	40	51	46	54	47	45
Residential	322648	50	65	38	40	43	37	31	42	36	44	39	37
Residential	322649	50	65	46	41	44	41	35	49	43	51	44	42
Residential	322650	50	65	34	38	42	36	30	38	32	40	36	34
Residential	322651	50	65	40	40	43	37	31	44	38	45	41	39
Residential	322652	50	65	35	37	40	35	29	39	33	40	36	34

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322654	50	65	34	36	38	33	29	38	32	40	36	34
Residential	322656	50	65	35	39	42	36	31	39	33	41	36	34
Residential	322660	50	65	45	47	50	44	38	48	42	50	45	43
Residential	322662	50	65	26	31	34	28	24	31	25	32	28	26
Residential	322663	50	65	26	31	34	28	24	31	25	31	28	26
Residential	322665	50	65	54	58	60	55	47	57	51	59	58	56
Residential	322666	50	65	36	41	44	38	32	39	34	41	38	36
Residential	322668	50	65	37	39	42	36	30	41	35	43	38	37
Residential	322672	50	65	37	41	44	38	32	40	35	42	38	36
Residential	322673	50	65	36	40	43	37	31	40	34	42	37	35
Residential	322679	50	65	37	41	44	39	33	41	35	43	39	37
Residential	322681	50	65	29	34	36	30	26	33	27	34	31	29
Residential	322687	50	65	39	44	46	41	34	43	37	45	41	39
Residential	322714	50	65	32	39	41	35	30	36	31	37	35	33
Residential	322716	50	65	31	36	39	35	30	35	30	36	33	31
Residential	322719	50	65	36	40	42	37	31	40	34	42	38	36
Residential	322720	50	65	25	29	32	26	23	30	25	31	27	25
Residential	322723	50	65	27	27	30	25	23	31	25	32	29	27
Residential	322724	50	65	28	34	36	30	26	32	26	33	30	29
Residential	322725	50	65	28	33	36	30	26	32	26	33	30	28
Residential	322726	50	65	28	32	35	29	25	32	26	33	31	29
Residential	322728	50	65	29	33	36	30	26	34	28	35	32	30
Residential	322729	50	65	43	41	44	38	32	47	41	47	41	39
Residential	322730	50	65	44	40	43	37	31	47	42	50	43	42
Residential	322732	50	65	44	48	50	45	38	47	42	50	45	43
Residential	322733	50	65	34	38	41	35	30	38	33	40	36	35
Residential	322735	50	65	29	31	34	29	25	33	27	34	31	29
Residential	322781	50	65	40	44	47	45	39	44	38	46	41	40
Residential	322784	50	65	24	30	33	27	24	29	24	30	27	25
Residential	322785	50	65	25	30	34	27	24	30	24	31	28	25
Residential	322786	50	65	45	43	45	42	36	48	42	49	44	42
Residential	322787	50	65	30	36	38	32	28	34	29	36	32	31
Residential	322788	50	65	29	35	38	32	27	33	28	35	32	30
Residential	322789	50	65	30	36	39	32	28	34	28	36	33	31
Residential	322791	50	65	35	39	42	36	33	39	34	41	37	35
Residential	322792	50	65	48	52	55	50	42	51	45	53	50	48
Residential	322794	50	65	43	38	41	39	34	47	41	49	39	37
Residential	322798	50	65	46	41	44	38	33	50	44	52	44	42
Residential	322808	50	65	38	29	32	26	22	41	36	43	40	39
Residential	322809	50	65	32	20	24	<20	<20	36	30	37	32	31
Residential	322810	50	65	33	28	31	25	23	37	31	38	34	32
Residential	322850	50	65	32	36	38	32	27	36	30	37	34	32
Residential	322851	50	65	31	35	38	32	27	35	29	37	33	31
Residential	322852	50	65	26	31	34	28	25	31	25	32	28	26
Residential	322889	50	65	33	37	40	34	29	37	31	39	36	34
Residential	322890	50	65	28	30	33	28	25	33	28	32	31	28

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322894	50	65	29	35	38	32	27	34	28	35	32	30
Residential	322946	50	65	28	33	35	29	25	32	26	33	30	28
Residential	322950	50	65	28	33	36	29	25	33	27	34	31	29
Residential	322996	50	65	27	32	35	29	25	32	26	33	29	27
Residential	322997	50	65	26	31	34	28	24	30	25	31	28	26
Residential	323033	50	65	33	38	41	35	31	37	31	38	39	38
Residential	323037	50	65	41	23	26	20	<20	44	38	46	30	28
Residential	323066	50	65	37	40	43	37	31	41	36	43	39	37
Residential	323074	50	65	24	29	32	26	23	29	24	30	27	25
Residential	323100	50	65	26	32	35	29	25	31	25	32	29	27
Residential	323105	50	65	43	48	50	45	38	47	41	49	45	43
Residential	323146	50	65	27	32	35	29	25	32	26	33	29	27
Residential	323147	50	65	39	44	47	41	35	43	37	45	41	39
Residential	323149	50	65	36	38	40	34	29	40	34	42	36	34
Residential	323153	50	65	28	32	35	29	25	32	27	33	30	28
Residential	323154	50	65	28	33	36	29	25	32	27	33	30	28
Residential	323156	50	65	32	36	39	33	28	36	30	37	34	32
Residential	323159	50	65	39	40	43	37	31	42	37	45	40	38
Residential	323221	50	65	26	31	34	28	24	31	25	32	28	26
Residential	323222	50	65	36	40	42	37	31	40	35	42	38	36
Residential	323225	50	65	27	32	35	28	24	32	26	33	29	27
Residential	323226	50	65	36	38	41	35	30	40	34	42	37	36
Residential	323227	50	65	34	36	39	33	28	38	32	40	35	33
Residential	323231	50	65	28	32	35	29	25	33	27	34	30	28
Residential	323234	50	65	46	44	47	41	35	48	43	49	44	43
Residential	323279	50	65	31	35	38	32	27	35	30	35	33	31
Residential	323281	50	65	37	35	39	34	29	41	35	43	36	34
Residential	323282	50	65	43	42	44	38	32	47	41	49	42	40
Residential	323286	50	65	32	36	38	33	28	36	31	38	34	33
Residential	323288	50	65	28	32	35	29	25	33	27	34	30	28
Residential	323290	50	65	28	33	36	30	25	32	27	33	30	28
Residential	323304	50	65	30	34	37	31	26	34	28	35	31	29
Residential	323307	50	65	29	33	36	30	26	33	27	35	31	30
Residential	323308	50	65	29	33	36	30	26	33	27	35	31	29
Residential	323309	50	65	29	34	37	31	26	34	28	35	31	29
Residential	323311	50	65	28	34	37	30	26	33	27	34	31	29
Residential	323312	50	65	28	33	36	30	26	32	26	33	30	28
Residential	323313	50	65	28	34	36	30	26	32	27	33	30	28
Residential	323325	50	65	25	30	34	27	24	30	24	31	28	26
Residential	323340	50	65	38	38	41	37	31	42	36	44	39	37
Residential	323351	50	65	38	42	44	38	32	42	36	43	39	38
Residential	323355	50	65	35	39	41	36	30	39	33	40	36	34
Residential	323356	50	65	33	36	39	33	29	37	31	39	35	33
Residential	323384	50	65	34	38	41	35	30	38	32	39	35	33
Residential	323397	50	65	48	44	47	42	36	51	45	53	44	42
Residential	323399	50	65	30	36	38	32	28	34	29	36	32	31

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323401	50	65	30	36	39	32	28	34	28	36	33	31
Residential	323402	50	65	30	36	39	32	28	34	29	36	33	31
Residential	323403	50	65	36	42	44	38	33	40	34	42	38	36
Residential	323404	50	65	34	39	42	36	31	38	32	40	36	34
Residential	323406	50	65	51	41	43	37	32	54	48	57	53	52
Residential	323407	50	65	28	33	36	30	26	33	27	34	30	29
Residential	323408	50	65	48	47	50	45	37	51	45	53	45	44
Residential	323409	50	65	34	38	41	35	29	37	32	39	35	33
Residential	323411	50	65	32	38	40	34	29	36	30	37	34	32
Residential	323414	50	65	47	48	50	46	39	50	44	52	45	43
Residential	323415	50	65	49	52	54	49	42	52	46	54	49	47
Residential	323416	50	65	52	50	53	47	40	55	49	57	51	49
Residential	323417	50	65	47	52	54	49	42	50	44	52	49	48
Residential	323419	50	65	45	44	47	41	35	48	42	50	44	42
Residential	323420	50	65	31	37	40	34	30	36	30	37	34	32
Residential	323421	50	65	46	46	49	43	39	49	44	50	46	45
Residential	323423	50	65	36	40	43	37	32	40	34	42	37	36
Residential	323424	50	65	35	39	41	36	30	39	33	40	36	35
Residential	323425	50	65	34	38	40	34	29	37	32	39	35	34
Residential	323428	50	65	29	34	37	31	26	33	27	34	31	29
Residential	323429	50	65	29	35	37	31	26	33	28	34	32	30
Residential	323430	50	65	35	37	40	34	29	38	33	40	36	34
Residential	323432	50	65	34	39	41	36	30	38	32	39	36	34
Residential	323435	50	65	35	40	43	37	32	39	33	41	41	39
Residential	323436	50	65	41	42	44	38	33	44	39	46	38	37
Residential	323437	50	65	27	32	35	28	24	32	27	32	30	28
Residential	323438	50	65	24	30	33	27	23	29	24	30	27	25
Residential	323439	50	65	26	32	35	28	24	31	25	32	29	27
Residential	323440	50	65	29	34	37	31	26	34	28	34	32	30
Residential	323441	50	65	27	32	36	29	25	32	26	33	30	28
Residential	323442	50	65	26	31	34	28	24	30	25	32	28	26
Residential	323443	50	65	29	34	36	30	26	34	28	35	31	29
Residential	323444	50	65	28	32	35	29	25	32	27	33	30	28
Residential	323445	50	65	27	33	35	29	25	32	26	33	30	28
Residential	323446	50	65	39	43	45	40	33	42	37	44	40	38
Residential	323447	50	65	25	30	33	27	24	30	24	31	28	25
Residential	323449	50	65	51	56	58	53	45	54	49	57	54	52
Residential	323452	50	65	45	38	41	35	30	48	42	50	38	36
Residential	323453	50	65	46	44	47	43	38	49	43	51	47	45
Residential	323456	50	65	26	32	35	29	25	31	25	32	29	27
Residential	323457	50	65	27	32	35	29	25	31	26	32	29	27
Residential	323458	50	65	58	47	49	46	39	61	55	61	56	54
Residential	323459	50	65	31	35	37	31	27	35	30	37	33	31
Residential	323461	50	65	54	53	55	50	43	56	51	58	52	50
Residential	323462	50	65	35	41	43	37	33	39	33	41	38	36
Residential	323463	50	65	37	41	43	38	32	41	36	43	38	36

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323464	50	65	42	38	41	35	30	45	40	47	38	36
Residential	323465	50	65	41	45	48	42	36	44	39	46	42	41
Residential	323466	50	65	44	49	51	46	39	47	41	49	45	44
Residential	323467	50	65	33	37	39	33	28	37	32	39	35	33
Residential	323468	50	65	25	30	34	27	24	30	24	30	28	26
Residential	323469	50	65	43	45	47	42	36	46	41	49	41	40
Residential	323470	50	65	28	34	37	30	26	33	27	34	34	32
Residential	323472	50	65	25	30	34	27	24	30	24	30	28	25
Residential	323473	50	65	24	30	33	27	23	29	23	30	27	25
Residential	323474	50	65	27	32	35	29	25	31	25	32	29	27
Residential	323475	50	65	28	33	36	30	26	32	27	33	30	28
Residential	323476	50	65	43	45	47	42	36	46	41	49	43	41
Residential	323478	50	65	30	35	38	31	27	35	29	36	32	30
Residential	323480	50	65	40	37	40	34	31	43	37	45	40	38
Residential	323485	50	65	38	29	32	26	24	42	36	45	39	38
Residential	323487	50	65	33	39	42	36	31	37	32	38	36	34
Residential	323488	50	65	36	40	42	36	31	40	34	41	36	34
Residential	323489	50	65	26	31	33	27	24	30	25	31	28	26
Residential	323490	50	65	26	30	33	27	24	30	25	31	28	26
Residential	323491	50	65	33	36	39	33	28	38	32	40	34	33
Residential	323492	50	65	31	35	38	31	27	35	29	36	33	31
Residential	323493	50	65	27	33	35	29	25	31	26	32	29	27
Residential	323494	50	65	26	32	35	28	24	31	25	31	29	27
Residential	323495	50	65	26	32	35	28	24	31	25	32	29	27
Residential	323496	50	65	27	32	35	29	25	32	26	32	29	27
Residential	323497	50	65	27	31	34	27	24	31	26	32	29	27
Residential	323499	50	65	26	29	32	26	23	31	26	31	27	25
Residential	323500	50	65	26	30	33	26	23	31	26	31	28	26
Residential	323501	50	65	30	36	39	33	29	34	29	36	33	31
Residential	323502	50	65	35	40	42	37	31	39	33	41	45	43
Residential	323503	50	65	47	41	44	38	36	49	44	52	45	43
Residential	323504	50	65	46	41	44	38	36	49	44	52	45	43
Residential	323505	50	65	31	33	37	30	27	36	30	37	35	33
Residential	323507	50	65	27	32	34	28	24	31	26	32	29	27
Residential	323508	50	65	38	43	46	40	34	41	36	44	44	42
Residential	323510	50	65	43	46	48	43	36	46	41	48	44	43
Residential	323511	50	65	41	44	47	41	35	45	39	47	41	39
Residential	323512	50	65	37	43	45	40	33	41	35	43	40	38
Residential	323513	50	65	40	37	40	34	31	44	38	46	41	39
Residential	323515	50	65	29	34	37	31	27	34	28	35	31	29
Residential	323517	50	65	26	32	35	28	24	31	25	31	29	27
Residential	323518	50	65	27	33	35	29	25	32	26	32	29	27
Residential	323519	50	65	26	32	34	28	24	31	25	31	28	26
Residential	323520	50	65	25	30	33	27	24	30	24	31	28	25
Residential	323522	50	65	43	48	50	45	38	47	41	49	45	43
Residential	323523	50	65	36	39	42	37	31	39	34	42	37	36

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323524	50	65	36	41	44	38	32	40	34	42	38	36
Residential	323525	50	65	53	57	59	54	47	55	50	58	55	54
Residential	323526	50	65	27	32	36	29	25	32	26	33	30	28
Residential	323527	50	65	28	34	36	30	26	32	27	34	30	29
Residential	323528	50	65	39	41	44	38	32	42	37	44	39	38
Residential	323529	50	65	35	39	41	36	30	39	33	40	36	35
Residential	323530	50	65	39	41	44	40	35	43	37	45	40	38
Residential	323531	50	65	33	37	40	35	31	37	31	39	35	33
Residential	323533	50	65	36	41	43	37	31	40	34	41	38	36
Residential	323535	50	65	29	34	36	30	26	33	28	34	31	29
Residential	323536	50	65	34	37	40	34	29	38	32	40	36	34
Residential	323539	50	65	33	36	38	33	28	37	31	38	35	33
Residential	323541	50	65	30	31	34	28	24	34	28	35	32	30
Residential	323543	50	65	41	44	46	40	34	45	39	47	41	39
Residential	323544	50	65	29	34	36	30	26	33	28	35	31	29
Residential	323545	50	65	29	32	35	29	25	33	27	34	31	29
Residential	323546	50	65	27	32	35	29	25	32	26	32	29	27
Residential	323547	50	65	26	31	34	28	24	31	25	32	29	27
Residential	323548	50	65	27	33	36	29	25	31	25	32	29	27
Residential	323549	50	65	50	54	57	52	44	53	47	55	52	50
Residential	323550	50	65	26	30	33	27	23	31	26	31	29	27
Residential	323551	50	65	26	30	33	27	23	31	25	31	28	26
Residential	323552	50	65	25	29	33	26	23	30	25	31	28	26
Residential	323553	50	65	31	37	39	34	29	35	29	37	33	31
Residential	323554	50	65	27	32	35	29	25	32	26	33	29	27
Residential	323555	50	65	34	37	40	34	29	37	32	39	35	33
Residential	323556	50	65	44	49	51	46	39	48	42	49	46	44
Residential	323557	50	65	46	41	44	38	36	49	43	51	45	43
Residential	323558	50	65	35	37	40	35	30	39	33	41	37	35
Residential	323559	50	65	36	39	42	36	30	40	34	41	36	34
Residential	323560	50	65	46	50	53	47	40	49	43	52	55	54
Residential	323561	50	65	37	42	44	38	32	41	35	43	39	37
Residential	323562	50	65	37	41	44	38	32	41	35	43	39	37
Residential	323564	50	65	55	44	47	41	36	57	51	58	52	51
Residential	323565	50	65	32	36	39	33	28	36	31	38	34	32
Residential	323566	50	65	26	31	34	28	24	31	26	31	29	26
Residential	323567	50	65	25	31	34	28	24	30	24	31	28	26
Residential	323568	50	65	39	42	45	39	33	43	37	44	40	38
Residential	323569	50	65	52	56	59	54	46	55	49	57	54	53
Residential	323570	50	65	50	54	57	52	44	53	48	56	52	51
Residential	323572	50	65	35	37	40	37	32	39	33	41	36	34
Residential	323573	50	65	31	36	39	33	28	36	30	37	33	31
Residential	323574	50	65	24	29	32	26	23	30	24	30	27	25
Residential	323575	50	65	44	49	51	46	39	47	41	49	52	51
Residential	323576	50	65	49	53	56	51	43	52	46	54	51	49
Residential	323577	50	65	48	52	54	49	42	51	46	53	49	48

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323578	50	65	35	39	42	36	31	39	34	41	36	34
Residential	323579	50	65	45	22	26	<20	<20	49	43	50	35	33
Residential	323580	50	65	34	37	40	34	29	38	32	40	35	33
Residential	323581	50	65	31	37	39	33	31	36	30	37	34	32
Residential	323582	50	65	26	32	35	28	24	31	25	32	29	27
Residential	323583	50	65	31	37	40	34	30	35	30	36	34	32
Residential	323584	50	65	29	35	38	31	27	34	28	35	32	30
Residential	323585	50	65	29	34	37	31	28	34	28	35	31	29
Residential	323586	50	65	29	34	37	31	26	33	27	34	31	29
Residential	323587	50	65	28	33	36	30	26	32	27	34	30	28
Residential	323588	50	65	26	31	34	28	24	30	25	31	28	26
Residential	323589	50	65	28	33	36	30	26	32	26	33	30	28
Residential	323590	50	65	28	33	36	30	25	32	27	33	30	28
Residential	323591	50	65	32	34	37	31	27	36	30	37	35	33
Residential	323592	50	65	47	33	36	31	26	50	45	53	55	54
Residential	323593	50	65	41	41	44	38	33	45	39	47	41	39
Residential	323594	50	65	40	41	44	41	35	44	38	46	41	39
Residential	323595	50	65	40	40	43	40	34	43	37	45	39	37
Residential	323596	50	65	32	36	39	34	30	36	31	37	33	31
Residential	323597	50	65	40	44	46	41	35	44	38	46	42	40
Residential	323598	50	65	49	45	47	41	36	52	46	54	46	44
Residential	323599	50	65	37	39	42	36	31	41	35	43	38	36
Residential	323600	50	65	37	40	43	37	31	41	35	43	38	36
Residential	323601	50	65	40	40	43	37	31	43	38	43	39	37
Residential	323602	50	65	40	41	44	39	33	43	38	45	41	39
Residential	323603	50	65	38	41	44	38	32	42	36	43	39	37
Residential	323605	50	65	50	52	55	50	42	53	47	55	53	51
Residential	323606	50	65	40	44	47	41	35	44	38	46	41	39
Residential	323607	50	65	37	41	44	38	33	40	35	42	38	36
Residential	323609	50	65	29	34	37	31	27	34	28	35	31	29
Residential	323610	50	65	29	32	35	30	26	33	27	33	31	29
Residential	323611	50	65	28	34	37	31	26	33	27	34	31	29
Residential	323612	50	65	25	30	33	27	24	30	24	30	28	26
Residential	323613	50	65	34	38	41	35	29	38	32	39	35	34
Residential	323614	50	65	31	37	40	34	29	35	29	37	34	32
Residential	323615	50	65	26	32	34	28	24	31	25	32	29	27
Residential	323618	50	65	33	37	40	34	29	37	32	40	35	33
Residential	323619	50	65	33	36	39	33	28	37	31	39	35	33
Residential	323620	50	65	44	43	45	44	38	47	42	49	42	41
Residential	323621	50	65	36	41	44	38	32	40	34	41	38	36
Residential	323622	50	65	51	50	53	48	41	54	48	56	50	48
Residential	323623	50	65	46	47	49	44	37	49	43	51	50	49
Residential	323625	50	65	36	41	44	38	32	39	34	41	39	37
Residential	323626	50	65	35	41	43	38	32	39	33	41	38	37
Residential	323627	50	65	48	45	48	42	36	51	45	53	47	45
Residential	323628	50	65	48	41	43	42	36	51	45	53	46	45

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323630	50	65	25	29	33	26	23	30	24	31	27	25
Residential	323631	50	65	25	29	32	26	23	30	25	30	28	25
Residential	323635	50	65	50	54	57	51	44	53	47	55	52	50
Residential	323636	50	65	50	54	56	51	43	52	47	55	52	50
Residential	323638	50	65	31	35	37	31	26	35	29	36	33	31
Residential	323639	50	65	36	39	42	36	30	40	34	42	37	35
Residential	323640	50	65	37	40	42	36	31	40	35	42	38	37
Residential	323641	50	65	27	31	34	27	24	32	27	32	29	27
Residential	323642	50	65	29	35	37	31	27	33	28	35	31	29
Residential	323643	50	65	25	31	34	28	24	30	24	31	28	26
Residential	323644	50	65	25	30	33	27	24	29	24	30	27	25
Residential	323645	50	65	32	36	39	33	28	36	31	38	34	32
Residential	323646	50	65	33	35	38	32	27	37	31	38	34	32
Residential	323647	50	65	33	36	39	33	28	37	31	38	34	32
Residential	323648	50	65	33	34	37	32	28	37	31	39	34	32
Residential	323650	50	65	36	41	44	38	32	40	34	42	38	36
Residential	323651	50	65	54	44	47	42	36	57	51	59	49	47
Residential	323652	50	65	38	42	45	39	33	41	36	43	39	37
Residential	323653	50	65	35	39	42	36	31	39	33	40	36	34
Residential	323654	50	65	43	47	49	44	37	46	40	48	44	42
Residential	323655	50	65	47	45	47	43	37	50	44	52	45	44
Residential	323656	50	65	47	52	55	49	42	50	45	53	50	48
Residential	323658	50	65	50	48	51	45	39	53	47	55	50	48
Residential	323659	50	65	27	32	35	29	25	31	26	32	29	27
Residential	323661	50	65	25	30	33	27	23	29	24	30	27	25
Residential	323662	50	65	27	33	36	30	26	32	26	33	30	28
Residential	323663	50	65	28	34	37	31	26	33	27	34	31	29
Residential	323665	50	65	25	30	33	27	23	30	24	30	27	25
Residential	323666	50	65	27	32	34	28	24	32	26	33	30	28
Residential	323667	50	65	38	39	42	37	31	42	36	44	38	37
Residential	323668	50	65	34	38	41	35	30	38	32	40	36	34
Residential	323669	50	65	35	39	41	35	30	39	33	41	36	35
Residential	323670	50	65	47	41	44	42	36	50	44	52	45	44
Residential	323671	50	65	41	41	44	41	35	44	39	46	41	39
Residential	323672	50	65	30	34	37	31	27	34	28	35	32	30
Residential	323673	50	65	30	34	37	31	26	34	28	35	31	29
Residential	323674	50	65	30	35	38	32	27	34	29	35	32	30
Residential	323675	50	65	37	38	41	35	30	41	35	43	38	36
Residential	323676	50	65	37	38	41	35	30	41	35	43	37	35
Residential	323678	50	65	60	54	57	52	44	62	57	64	57	55
Residential	323680	50	65	62	41	44	38	35	64	59	64	58	56
Residential	323681	50	65	37	37	40	35	30	40	35	42	36	35
Residential	323682	50	65	25	30	33	27	24	30	24	30	27	25
Residential	323683	50	65	49	47	50	44	38	52	46	54	48	46
Residential	323685	50	65	25	31	34	28	24	30	24	31	28	26
Residential	323686	50	65	27	32	35	29	25	32	26	33	30	28

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323687	50	65	27	32	35	29	25	31	26	33	29	27
Residential	323688	50	65	27	32	35	29	25	31	26	32	29	27
Residential	323689	50	65	25	30	33	27	24	30	24	30	27	25
Residential	323690	50	65	25	30	34	27	24	30	24	31	28	25
Residential	323691	50	65	25	30	34	27	24	30	24	31	28	26
Residential	323693	50	65	26	32	35	29	25	31	25	32	29	27
Residential	323694	50	65	27	32	36	29	25	32	26	33	30	28
Residential	323695	50	65	34	37	40	35	30	38	33	40	36	34
Residential	323696	50	65	37	39	42	36	30	40	35	43	39	37
Residential	323697	50	65	31	37	39	33	28	35	29	37	33	32
Residential	323698	50	65	39	41	44	38	35	43	37	45	38	36
Residential	323699	50	65	41	47	49	44	37	45	39	47	44	42
Residential	323700	50	65	31	37	39	33	29	35	29	37	33	32
Residential	323701	50	65	30	36	39	32	27	35	29	36	33	31
Residential	323702	50	65	41	47	49	43	37	45	39	47	43	42
Residential	323703	50	65	43	44	47	41	36	46	41	48	43	41
Residential	323704	50	65	31	36	39	33	30	35	29	36	33	31
Residential	323705	50	65	34	39	42	36	30	38	32	40	36	34
Residential	323706	50	65	26	31	34	28	24	30	25	31	29	27
Residential	323708	50	65	26	32	34	28	24	31	25	32	29	27
Residential	323709	50	65	25	27	31	25	23	30	24	30	28	26
Residential	323710	50	65	56	45	48	42	37	59	53	61	53	52
Residential	323711	50	65	55	52	55	50	42	58	52	56	54	53
Residential	323712	50	65	32	39	41	36	30	37	31	38	35	33
Residential	323713	50	65	27	33	36	30	25	32	26	33	30	28
Residential	323714	50	65	52	52	54	49	42	55	49	56	52	50
Residential	323716	50	65	28	32	35	29	25	33	27	34	30	28
Residential	323717	50	65	29	33	36	30	25	33	27	34	31	29
Residential	323718	50	65	27	31	35	29	25	32	26	33	30	28
Residential	323720	50	65	61	55	57	52	44	64	58	64	58	56
Residential	323722	50	65	60	51	54	48	41	62	56	63	75	74
Residential	323723	50	65	25	29	32	26	23	30	24	30	27	25
Residential	323724	50	65	25	29	32	26	23	30	25	30	27	25
Residential	323726	50	65	28	33	36	29	25	32	26	33	30	28
Residential	323727	50	65	28	34	37	31	26	33	27	34	31	29
Residential	323728	50	65	27	31	34	28	24	31	26	32	29	27
Residential	323729	50	65	26	30	33	27	24	31	25	32	29	27
Residential	323730	50	65	30	36	38	32	27	34	28	35	32	30
Residential	323731	50	65	28	32	35	29	25	32	26	33	30	28
Residential	323732	50	65	30	35	38	32	27	34	29	35	32	30
Residential	323733	50	65	30	36	38	32	27	34	29	36	33	31
Residential	323734	50	65	30	35	38	32	27	34	28	35	32	30
Residential	323735	50	65	32	38	40	37	32	37	31	38	35	33
Residential	323736	50	65	29	35	38	32	28	34	28	35	32	30
Residential	323737	50	65	29	35	38	31	27	34	28	35	32	30
Residential	323738	50	65	45	45	48	42	36	47	42	48	47	45

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323739	50	65	25	30	33	27	23	30	25	31	28	26
Residential	323740	50	65	25	30	33	27	24	30	24	31	28	26
Residential	323741	50	65	27	32	35	28	24	32	26	33	30	28
Residential	323742	50	65	36	39	42	36	31	40	34	42	38	36
Residential	323743	50	65	35	38	41	35	30	39	33	41	37	35
Residential	323744	50	65	36	39	42	36	30	40	34	42	38	36
Residential	323745	50	65	57	51	54	48	41	59	53	58	55	53
Residential	323746	50	65	55	47	50	45	38	58	52	59	53	52
Residential	323747	50	65	27	32	35	29	25	31	25	32	29	27
Residential	323748	50	65	46	45	48	43	37	49	43	51	47	46
Residential	323749	50	65	27	32	35	29	25	32	26	33	30	28
Residential	323750	50	65	26	33	35	29	25	31	25	32	29	27
Residential	323751	50	65	29	33	36	30	25	33	28	33	31	29
Residential	323752	50	65	26	30	33	27	23	31	25	32	29	27
Residential	323754	50	65	38	43	46	38	32	41	36	44	40	39
Residential	323756	50	65	41	43	46	40	34	44	39	46	41	39
Residential	323757	50	65	38	43	46	40	34	42	36	44	40	38
Residential	323758	50	65	38	42	45	39	33	41	36	43	39	37
Residential	323759	50	65	43	48	51	45	39	45	39	47	43	42
Residential	323760	50	65	44	44	47	42	36	48	42	48	44	42
Residential	323761	50	65	43	45	48	42	37	47	41	48	46	44
Residential	323762	50	65	32	37	39	33	28	36	31	38	34	32
Residential	323763	50	65	29	34	37	31	26	33	27	34	31	29
Residential	323767	50	65	38	39	42	36	31	41	35	43	38	37
Residential	323768	50	65	38	38	41	36	30	41	35	44	38	36
Residential	323769	50	65	31	35	38	32	27	35	29	37	33	31
Residential	323770	50	65	43	41	44	38	32	47	41	49	41	39
Residential	323771	50	65	43	40	43	37	31	46	41	49	39	38
Residential	323772	50	65	27	33	35	29	25	31	26	32	29	27
Residential	323773	50	65	32	37	39	33	28	36	30	37	34	32
Residential	323774	50	65	27	32	35	29	25	31	26	32	29	27
Residential	323775	50	65	26	32	35	29	25	31	25	32	29	27
Residential	323777	50	65	28	34	37	31	26	33	27	34	31	29
Residential	323778	50	65	27	33	35	29	25	31	26	32	29	27
Residential	323780	50	65	58	52	55	49	42	61	55	62	56	55
Residential	323782	50	65	32	36	39	33	28	37	31	38	35	33
Residential	323783	50	65	32	36	39	33	28	37	31	38	35	33
Residential	323784	50	65	27	32	35	29	25	31	26	32	29	27
Residential	323785	50	65	29	35	38	31	27	34	28	35	32	30
Residential	323786	50	65	44	49	51	46	39	47	41	49	57	56
Residential	323788	50	65	40	40	43	37	31	43	37	45	39	37
Residential	323789	50	65	47	49	51	45	39	50	44	52	48	47
Residential	323790	50	65	31	36	39	35	30	35	30	36	33	32
Residential	323791	50	65	45	41	44	38	33	48	43	51	43	41
Residential	323792	50	65	40	43	46	40	34	44	38	46	41	40
Residential	323793	50	65	28	33	36	30	26	33	27	34	30	28

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323794	50	65	31	35	38	32	27	35	29	36	33	31
Residential	323795	50	65	43	46	49	42	36	47	41	49	43	41
Residential	323796	50	65	57	56	58	53	45	60	54	61	61	59
Residential	323797	50	65	45	41	43	37	32	48	43	51	42	40
Residential	323798	50	65	51	49	52	47	40	54	48	56	49	47
Residential	323799	50	65	30	36	38	32	27	34	28	35	32	30
Residential	323800	50	65	29	35	37	31	27	34	28	35	32	31
Residential	323801	50	65	43	41	44	39	33	46	41	49	41	39
Residential	323802	50	65	25	31	34	27	24	30	24	31	28	26
Residential	323803	50	65	43	45	48	42	35	46	41	48	44	42
Residential	323804	50	65	55	58	60	56	48	58	53	60	60	58
Residential	323805	50	65	43	47	49	44	37	46	41	49	44	42
Residential	323806	50	65	44	47	50	44	38	47	41	49	44	42
Residential	323808	50	65	42	44	47	41	35	45	40	48	41	39
Residential	323809	50	65	47	41	44	42	36	50	44	52	46	44
Residential	323811	50	65	27	32	35	29	25	32	26	32	30	28
Residential	323812	50	65	26	31	34	28	24	30	25	31	28	26
Residential	323813	50	65	27	33	35	29	25	31	26	32	29	27
Residential	323815	50	65	28	33	36	30	26	33	27	34	31	29
Residential	323816	50	65	29	34	37	31	26	33	27	34	32	30
Residential	323817	50	65	37	39	41	36	31	41	35	42	38	37
Residential	323818	50	65	35	37	40	35	31	39	33	41	37	35
Residential	323819	50	65	54	54	56	51	43	57	51	59	53	51
Residential	323823	50	65	46	45	47	41	36	50	44	52	41	40
Residential	323824	50	65	25	30	33	27	23	30	24	30	27	25
Residential	323825	50	65	37	40	43	37	31	41	35	43	39	38
Residential	323828	50	65	25	30	33	27	24	30	24	30	27	25
Residential	323829	50	65	31	35	37	31	27	34	29	36	32	30
Residential	323830	50	65	40	43	45	39	34	44	38	46	40	38
Residential	323831	50	65	43	45	47	42	35	46	41	49	44	42
Residential	323832	50	65	48	47	50	45	38	51	46	54	47	46
Residential	323833	50	65	44	45	48	43	39	47	42	50	44	42
Residential	323834	50	65	29	33	36	30	26	33	28	35	32	30
Residential	323835	50	65	37	40	43	37	31	40	34	42	38	37
Residential	323836	50	65	36	39	42	37	31	40	34	42	38	37
Residential	323837	50	65	25	31	34	28	24	30	24	31	28	26
Residential	323838	50	65	26	31	34	28	24	30	25	31	28	26
Residential	323839	50	65	29	35	37	31	27	33	28	35	31	30
Residential	323840	50	65	29	34	37	31	26	33	28	34	31	29
Residential	323841	50	65	30	34	37	31	26	34	28	35	31	30
Residential	323843	50	65	31	35	38	31	27	35	29	36	33	31
Residential	323844	50	65	53	50	52	49	42	56	50	58	51	50
Residential	323845	50	65	46	47	50	44	39	50	44	50	47	45
Residential	323846	50	65	52	50	53	49	41	55	49	57	51	50
Residential	323847	50	65	49	49	52	47	40	53	47	55	49	47
Residential	323848	50	65	50	50	53	47	40	53	47	54	50	49

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323849	50	65	31	35	38	31	27	35	29	36	33	31
Residential	323850	50	65	31	35	38	32	27	35	30	37	33	31
Residential	323851	50	65	35	39	41	36	30	39	33	40	36	35
Residential	323852	50	65	36	41	43	38	32	40	34	42	38	36
Residential	323853	50	65	36	41	44	38	32	40	34	42	38	36
Residential	323854	50	65	73	68	71	67	58	70	64	69	100	99
Residential	323856	50	65	32	38	40	35	30	36	31	38	34	33
Residential	323857	50	65	40	42	45	43	37	43	38	44	46	44
Residential	323862	50	65	35	40	43	37	31	39	33	41	38	36
Residential	323866	50	65	45	42	44	39	35	48	43	50	47	46
Residential	323867	50	65	53	51	54	49	41	55	50	57	51	49
Residential	323868	50	65	56	50	53	48	41	59	53	61	55	53
Residential	323871	50	65	29	35	37	31	27	34	28	35	32	30
Residential	323872	50	65	27	<20	23	<20	<20	32	26	32	25	23
Residential	323876	50	65	44	34	37	31	27	47	41	49	50	49
Residential	323877	50	65	31	36	39	33	28	35	29	36	33	31
Residential	323878	50	65	27	33	36	29	25	32	26	33	30	28
Residential	323879	50	65	27	32	35	29	25	31	26	32	29	27
Residential	323880	50	65	26	32	35	29	25	31	25	32	29	27
Residential	323882	50	65	29	35	38	31	27	33	28	35	32	30
Residential	323883	50	65	29	34	37	31	27	33	27	34	31	29
Residential	323884	50	65	35	41	43	37	31	39	33	41	37	36
Residential	323885	50	65	40	45	48	42	36	43	37	43	43	41
Residential	323887	50	65	43	48	50	45	38	47	41	49	45	43
Residential	323891	50	65	28	32	35	28	24	32	26	33	30	28
Residential	323893	50	65	47	50	53	48	41	50	45	52	48	46
Residential	323894	50	65	36	40	43	38	32	40	35	42	38	36
Residential	323895	50	65	35	39	41	36	30	39	33	41	37	36
Residential	323896	50	65	38	39	42	36	31	42	36	44	39	37
Residential	323897	50	65	42	40	42	37	31	45	39	47	41	39
Residential	323898	50	65	39	38	41	35	30	42	36	45	38	36
Residential	323899	50	65	37	39	42	37	33	40	35	42	37	35
Residential	323901	50	65	28	33	36	30	25	32	26	33	30	28
Residential	323902	50	65	27	33	35	29	25	32	26	33	30	28
Residential	323903	50	65	27	31	34	28	24	31	26	32	29	27
Residential	323904	50	65	38	38	41	36	30	41	35	43	38	36
Residential	323905	50	65	38	44	47	41	35	41	36	42	41	39
Residential	323906	50	65	36	41	44	38	32	40	34	42	38	37
Residential	323907	50	65	37	42	44	39	32	41	35	42	39	37
Residential	323908	50	65	40	42	45	42	36	44	38	46	40	38
Residential	323909	50	65	24	29	33	26	23	29	24	30	27	25
Residential	323910	50	65	38	42	44	38	32	42	36	44	38	37
Residential	323911	50	65	36	41	44	38	32	40	34	42	38	36
Residential	323912	50	65	46	41	44	38	32	49	43	52	44	42
Residential	323913	50	65	46	41	44	38	32	49	43	51	44	42
Residential	323914	50	65	45	41	44	38	32	48	43	51	43	42

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323915	50	65	38	39	42	37	31	42	36	44	39	37
Residential	323916	50	65	37	38	41	36	30	40	35	42	37	36
Residential	323917	50	65	29	34	37	31	26	33	27	34	31	29
Residential	323918	50	65	39	42	45	39	33	42	36	44	40	38
Residential	323919	50	65	39	42	45	39	33	42	36	44	40	38
Residential	323920	50	65	37	38	41	35	30	41	35	43	38	37
Residential	323921	50	65	39	40	42	37	31	42	37	44	39	37
Residential	323922	50	65	39	40	42	37	31	42	36	44	39	37
Residential	323923	50	65	38	38	41	35	30	42	36	44	38	36
Residential	323925	50	65	45	49	52	46	39	48	43	50	46	44
Residential	323926	50	65	27	32	35	29	25	32	26	33	29	27
Residential	323927	50	65	44	40	43	41	35	47	41	49	41	39
Residential	323928	50	65	35	40	42	37	31	39	33	41	37	35
Residential	323929	50	65	35	40	43	37	31	39	33	41	37	36
Residential	323930	50	65	52	50	52	47	40	55	49	57	50	49
Residential	323931	50	65	27	32	35	29	25	32	26	33	30	28
Residential	323932	50	65	26	31	35	28	24	31	25	32	29	27
Residential	323933	50	65	28	34	37	30	26	33	27	34	31	29
Residential	323934	50	65	27	32	35	28	25	32	26	33	30	28
Residential	323935	50	65	36	38	41	35	30	39	34	41	37	35
Residential	323936	50	65	36	38	41	35	30	40	34	41	37	35
Residential	323937	50	65	34	36	39	33	28	38	32	39	35	33
Residential	323938	50	65	35	38	40	34	29	39	34	41	37	35
Residential	323939	50	65	34	37	40	34	29	37	32	39	35	33
Residential	323940	50	65	39	22	26	<20	<20	43	37	45	29	27
Residential	323941	50	65	44	42	44	38	33	47	42	50	40	38
Residential	323942	50	65	26	32	34	28	24	30	25	31	28	26
Residential	323943	50	65	44	41	43	37	32	47	42	50	42	41
Residential	323944	50	65	44	41	43	38	32	47	41	49	41	39
Residential	323945	50	65	40	41	43	38	32	44	38	46	40	38
Residential	323946	50	65	44	40	43	37	35	48	42	50	40	39
Residential	323947	50	65	25	28	32	26	23	30	24	30	27	25
Residential	324265	50	65	30	36	39	33	29	34	29	35	25	23
Residential	324266	50	65	35	42	45	39	34	39	34	42	26	24
Residential	324268	50	65	34	40	43	37	32	38	32	40	26	24
Residential	324270	50	65	65	<20	<20	<20	<20	67	62	70	78	76
Residential	324274	50	65	55	39	42	36	31	57	52	60	57	56
Residential	324277	50	65	49	43	45	39	34	52	46	54	44	43
Residential	324333	50	65	58	52	54	52	44	61	55	63	62	60
Residential	324347	50	65	53	50	53	48	41	55	50	58	51	49
Residential	1000000	50	65	37	29	32	26	24	41	35	43	23	21
Residential	1000001	50	65	28	22	25	20	<20	33	28	34	21	<20
Residential	2004625	50	65	41	46	49	43	37	44	38	46	28	26
Residential	2004721	50	65	55	42	45	40	35	58	52	61	64	62
Residential	2007798	50	65	35	31	34	28	24	39	33	41	33	31
Residential	2007851	50	65	30	37	39	33	29	35	29	35	39	38

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	2008222	50	65	34	<20	<20	<20	<20	38	33	40	36	34
Residential	2008224	50	65	60	<20	<20	<20	<20	62	57	65	64	63
Residential	2008226	50	65	29	32	35	29	26	34	28	35	23	20
Residential	2008227	50	65	31	26	30	23	21	36	30	38	28	26
Residential	2008232	50	65	37	41	43	38	33	40	35	43	40	39
Residential	2008234	50	65	40	30	32	27	24	43	38	46	42	41
Residential	2008306	50	65	30	36	39	33	28	35	29	37	33	31
Residential	2008307	50	65	30	36	39	33	28	35	29	36	33	31
Residential	2008308	50	65	28	33	36	29	25	32	26	34	31	29
Residential	2008309	50	65	25	30	33	27	24	30	24	31	28	25
Residential	2008314	50	65	41	40	44	39	34	45	39	47	42	40
Residential	2008315	50	65	37	38	41	35	30	40	35	42	38	36
Residential	2008316	50	65	51	47	50	45	38	54	49	56	50	48
Residential	2008317	50	65	51	47	50	45	38	54	48	56	49	47
Residential	2008318	50	65	55	51	54	49	42	58	52	60	57	56
Residential	2008319	50	65	56	53	56	51	43	59	53	60	58	57
Residential	2008321	50	65	33	35	38	31	27	37	32	39	38	37
Residential	2008322	50	65	31	33	36	30	30	35	30	36	38	36
Residential	2008323	50	65	28	28	31	25	22	33	27	34	31	30
Residential	2008324	50	65	28	25	29	23	20	33	27	34	29	27
Residential	2008325	50	65	35	32	35	29	26	38	33	40	37	35
Residential	2008326	50	65	28	24	28	21	<20	33	28	35	29	26
Residential	2008328	50	65	34	26	29	27	25	38	32	39	35	33
Residential	2008329	50	65	46	27	30	24	23	49	43	51	41	40
Residential	2008330	50	65	31	<20	24	<20	<20	36	30	37	31	29
Residential	2008331	50	65	24	<20	20	<20	<20	29	24	30	26	24
Residential	2008332	50	65	23	20	24	<20	<20	29	23	29	26	23
Residential	2008333	50	65	40	24	28	22	<20	43	37	45	48	46
Residential	2008335	50	65	37	36	39	33	28	40	35	43	38	36
Residential	2008336	50	65	36	38	41	35	29	40	34	42	38	36
Residential	2008338	50	65	30	36	38	32	29	34	29	35	33	31
Residential	2008339	50	65	27	30	33	27	24	32	26	32	31	29
Residential	2008340	50	65	54	33	36	30	26	56	50	60	43	41
Residential	2008341	50	65	43	48	50	44	38	46	40	48	49	47
Residential	2008342	50	65	30	31	34	28	25	35	29	37	31	29
Residential	2008343	50	65	38	35	38	32	28	42	36	44	33	31
Residential	2008344	50	65	26	29	32	26	23	30	25	31	28	26
Residential	2008346	50	65	25	20	24	<20	<20	30	24	30	<20	<20
Residential	2008347	50	65	52	53	56	51	43	53	47	55	54	53
Residential	2008349	50	65	42	37	40	34	29	45	40	48	40	38
Residential	2008350	50	65	31	36	39	33	28	35	29	36	34	32
Residential	2008351	50	65	41	45	47	42	36	44	39	47	41	39
Residential	2008353	50	65	32	38	41	35	30	36	30	36	35	33
Residential	2008355	50	65	37	42	44	39	33	40	35	42	39	37
Residential	2008357	50	65	36	42	44	39	33	40	35	42	38	37
Residential	2008358	50	65	27	33	36	29	26	32	26	32	29	27

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	2008359	50	65	25	30	34	27	25	30	25	31	28	26
Residential	2008360	50	65	28	33	36	30	26	33	27	33	29	27
Residential	2008361	50	65	28	32	35	29	26	32	27	33	28	26
Residential	2008363	50	65	28	34	37	31	28	32	27	34	31	28
Residential	2008364	50	65	26	31	34	28	24	31	25	31	29	27
Residential	2008365	50	65	26	32	35	29	26	31	25	32	28	25
Residential	2008366	50	65	25	30	33	27	23	30	24	30	27	25
Residential	2008367	50	65	25	30	33	27	23	30	24	30	27	25
Residential	2008368	50	65	25	30	33	27	23	30	24	30	27	25
Residential	2008369	50	65	24	30	33	27	23	30	24	30	27	25
Residential	2008371	50	65	25	30	33	27	23	30	24	30	27	25
Residential	2008372	50	65	24	29	32	26	23	29	23	30	27	25
Residential	2008373	50	65	24	29	33	26	23	29	24	30	27	25
Residential	2008374	50	65	24	29	33	26	23	29	24	30	27	25
Residential	2008375	50	65	24	26	30	24	21	29	23	30	24	22
Residential	2008376	50	65	24	29	32	26	23	29	23	29	26	24
Residential	2008377	50	65	22	28	31	25	22	28	22	28	26	24
Residential	2008378	50	65	23	29	32	26	23	28	22	28	26	24
Residential	2008379	50	65	20	25	29	23	22	26	21	25	24	21
Residential	2008380	50	65	<20	<20	22	<20	<20	21	<20	20	<20	<20
Residential	2008393	50	65	27	<20	23	<20	<20	32	26	33	27	25
Residential	2008394	50	65	44	39	42	36	32	48	42	50	42	40
Residential	2008396	50	65	30	36	39	33	29	35	29	36	33	31
Residential	2008397	50	65	30	36	38	32	29	34	29	35	33	31
Residential	2008398	50	65	29	35	38	32	28	34	29	35	33	31
Residential	2008399	50	65	29	35	38	32	28	34	28	35	32	30
Residential	2008400	50	65	30	36	39	33	29	34	29	36	33	31
Residential	2008401	50	65	29	36	38	32	29	34	29	35	33	31
Residential	2008402	50	65	29	34	37	31	27	34	29	35	31	29
Residential	2008403	50	65	29	32	35	29	26	34	28	35	30	28
Residential	2008404	50	65	30	36	39	33	29	34	29	36	33	31
Residential	2008405	50	65	29	36	38	32	29	34	29	35	31	29
Residential	2008406	50	65	29	33	36	30	27	34	28	35	30	28
Residential	2008407	50	65	29	32	35	29	26	34	28	35	29	27
Residential	2008408	50	65	30	36	39	33	29	35	29	36	33	31
Residential	2008409	50	65	30	33	36	30	27	34	29	35	31	29
Residential	2008410	50	65	29	32	35	29	26	34	28	35	30	28
Residential	2008411	50	65	29	31	34	28	25	33	28	35	29	27
Residential	2008412	50	65	30	36	38	32	29	34	29	36	33	31
Residential	2008413	50	65	29	33	36	30	26	34	29	35	30	28
Residential	2008414	50	65	29	32	35	29	26	34	28	35	30	27
Residential	2008415	50	65	37	42	45	39	33	40	35	43	39	37
Residential	2008417	50	65	37	43	45	39	34	41	36	43	39	37
Residential	2008418	50	65	37	41	43	37	32	40	35	42	35	33
Residential	2008420	50	65	37	43	45	40	34	41	36	43	38	37
Residential	2008421	50	65	33	39	42	36	30	37	32	39	35	34

Receptor Type	Receptor ID	Criteria dB(A)		Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
		Lower	Upper	Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	2008422	50	65	29	35	38	31	27	34	28	35	32	30
Residential	2008423	50	65	35	37	40	34	29	39	33	41	37	35
Residential	2008431	50	65	30	35	38	32	28	34	28	36	32	31
Residential	2008437	50	65	45	28	31	25	22	48	42	51	46	45
Residential	2008438	50	65	42	45	48	42	37	43	38	45	44	42
Residential	2008439	50	65	32	35	38	32	28	33	28	35	34	33
Sporting Facility	320849		65	31	37	40	33	28	35	30	36	34	32
Sporting Facility	321505		65	52	43	46	45	38	55	49	57	49	48
Sporting Facility	322502		65	28	34	36	30	26	32	26	33	31	29
Sporting Facility	322669		65	31	34	37	31	28	35	29	36	33	31
Sporting Facility	323881		65	29	35	37	31	27	33	27	35	32	30
Sporting Facility	2008430		65	24	29	33	26	23	29	24	30	27	25

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Accommodation	254576	45	58	28	<20	<20	Refer to Report Section 6.1.1.5	Refer to Report Section 6.1.1.6	77	73	78	<20
Accommodation	261687	45	50	<20	<20	35			65	62	67	<20
Accommodation	261703	45	42	<20	<20	34			66	62	67	<20
Accommodation	316943	45	37	<20	<20	<20			38	35	40	<20
Accommodation	317028	45	33	<20	<20	<20			37	33	38	<20
Accommodation	321058	45	41	<20	<20	<20			40	36	41	24
Community	254564	52	62	29	<20	<20			77	73	78	<20
Community	254592	52	53	28	<20	<20			77	73	78	<20
Community	260123	52	64	<20	<20	24			76	72	78	<20
Community	261738	52	60	<20	<20	41			57	54	59	<20
Community	262035	52	53	<20	<20	33			60	56	61	<20
Community	318994	52	36	<20	<20	<20			44	40	46	39
Community	319762	52	42	<20	<20	<20			47	43	49	45
Community	320847	52	42	<20	<20	<20			40	36	41	28
Community	320888	52	40	<20	<20	<20			39	35	40	24
Community	321378	52	39	<20	<20	<20			38	34	39	25
Community	321739	52	33	<20	<20	<20			40	36	41	35
Community	321765	52	40	<20	<20	<20			39	35	40	26
Community	321787	52	40	<20	<20	<20			37	33	38	24
Community	322109	52	39	<20	<20	<20			37	33	38	24
Community	322541	52	37	<20	<20	<20			34	30	35	24
Community	322790	52	65	<20	<20	<20			67	63	68	28
Community	323481	52	40	<20	<20	<20			39	35	40	24
Community	323677	52	39	<20	<20	<20			36	33	38	26
Community	323764	52	39	<20	<20	<20			39	35	40	28
Community	323776	52	39	<20	<20	<20			37	33	38	25
Community	323861	52	42	<20	<20	<20			42	38	43	25
Community	323863	52	43	<20	<20	<20			42	38	43	25
Community	2008434	52	43	<20	<20	<20			42	38	43	23
Educational	254515		51	26	<20	<20			60	56	62	<20
Educational	254527		50	27	<20	<20			61	57	62	<20
Educational	261749		51	<20	<20	33			69	66	71	<20
Educational	261795		53	<20	<20	33			69	65	71	<20
Educational	261821		50	<20	<20	33			66	62	68	<20
Educational	261823		50	<20	<20	33			66	62	67	<20
Educational	261831		48	<20	<20	32			64	61	66	<20
Educational	320693		36	<20	<20	<20			40	37	42	38
Educational	320726		36	<20	<20	<20			41	37	42	39
Educational	320741		33	<20	<20	<20			43	39	45	42
Educational	320763		36	<20	<20	<20			40	37	42	38
Educational	320848		39	<20	<20	<20			37	34	39	26
Educational	320893		38	<20	<20	<20			36	32	37	25
Educational	320894		39	<20	<20	<20			37	34	39	26
Educational	320958		33	<20	<20	<20			35	31	36	24

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Educational	321057		41	<20	<20	<20			42	38	44	31
Educational	321060		44	<20	<20	<20			43	39	44	33
Educational	321289		40	<20	<20	<20			42	39	44	35
Educational	321588		44	<20	<20	<20			43	39	44	34
Educational	321643		39	<20	<20	<20			44	40	45	42
Educational	321670		36	<20	<20	<20			41	37	43	40
Educational	321774		39	<20	<20	<20			38	34	40	26
Educational	321913		36	<20	<20	<20			37	33	38	23
Educational	322099		33	<20	<20	<20			32	29	34	25
Educational	322113		33	<20	<20	<20			37	33	38	24
Educational	322378		36	<20	<20	<20			35	31	37	25
Educational	322379		36	<20	<20	<20			35	32	37	24
Educational	322428		38	<20	<20	<20			35	32	37	26
Educational	322576		40	<20	<20	<20			39	35	40	30
Educational	322664		39	<20	<20	<20			37	34	39	29
Educational	322813		38	<20	<20	<20			43	39	45	41
Educational	322848		40	<20	<20	<20			38	35	40	25
Educational	323514		38	<20	<20	<20			37	33	38	24
Educational	323537		34	<20	<20	<20			37	33	38	29
Educational	323889		44	<20	<20	<20			43	39	44	33
Educational	323890		43	<20	<20	<20			43	39	44	33
Educational	2008433		38	<20	<20	<20			39	35	40	29
Emergency Services	254513	52	47	24	<20	<20			59	54	60	<20
Emergency Services	260154	52	63	<20	<20	28			78	74	79	<20
Emergency Services	321427	52	43	<20	<20	<20			47	43	49	27
Emergency Services	321668	52	36	<20	<20	<20			41	37	43	38
Emergency Services	322165	52	45	<20	<20	<20			50	46	51	28
Emergency Services	322315	52	42	<20	<20	<20			40	36	41	29
Emergency Services	322474	52	45	<20	<20	<20			51	47	52	34
Emergency Services	322658	52	42	<20	<20	<20			40	36	41	26
Emergency Services	323479	52	41	<20	<20	<20			39	35	40	26
Emergency Services	323807	52	47	<20	<20	<20			50	46	52	25
Emergency Services	323874	52	41	<20	<20	<20			39	35	40	25
Office	254574		61	29	<20	<20			80	76	81	<20
Office	254852		43	<20	<20	<20			44	40	45	31
Office	254858		41	<20	<20	<20			40	37	42	29
Office	256773		40	<20	<20	37			45	41	46	<20
Office	256806		39	<20	<20	33			41	37	42	<20
Office	261287		64	<20	<20	53			74	71	76	<20
Office	261321		61	<20	<20	50			72	69	74	<20
Office	261639		50	<20	<20	36			66	62	67	<20
Office	261890		57	<20	<20	33			60	56	61	<20
Office	320887		39	<20	<20	<20			39	35	40	24
Office	320979		42	<20	<20	<20			45	41	47	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Office	320981		46	<20	<20	<20			46	42	48	26
Office	321251		42	<20	<20	<20			40	36	41	25
Office	321428		40	<20	<20	<20			38	35	40	28
Office	321459		42	<20	<20	<20			40	36	41	22
Office	321461		38	<20	<20	<20			40	36	41	35
Office	321463		42	<20	<20	<20			41	37	42	26
Office	321619		41	<20	<20	<20			44	40	46	27
Office	321620		40	<20	<20	<20			37	34	39	28
Office	321812		41	<20	<20	<20			42	38	43	26
Office	321816		42	<20	<20	<20			46	42	47	29
Office	321939		42	<20	<20	<20			45	41	46	25
Office	322010		41	<20	<20	<20			39	35	41	25
Office	322240		40	<20	<20	<20			41	37	43	23
Office	322427		45	<20	<20	<20			42	38	43	30
Office	322441		42	<20	<20	<20			44	40	45	26
Office	322442		41	<20	<20	<20			42	39	44	26
Office	322504		46	<20	<20	<20			50	45	51	31
Office	322505		43	<20	<20	<20			46	42	47	27
Office	322718		41	<20	<20	<20			45	41	46	24
Office	322867		39	<20	<20	<20			39	35	40	24
Office	323410		42	<20	<20	<20			40	36	42	28
Office	323422		42	<20	<20	<20			43	39	44	26
Office	323427		43	<20	<20	<20			47	43	48	31
Office	323431		41	<20	<20	<20			40	36	42	24
Office	323434		54	<20	<20	<20			57	53	58	25
Office	323633		42	<20	<20	<20			40	36	41	27
Office	323634		42	<20	<20	<20			40	36	41	26
Office	323657		46	<20	<20	<20			52	48	53	28
Office	323660		41	<20	<20	<20			37	34	39	29
Parkland	261544		46	<20	<20	37			70	67	72	<20
Parkland	321558		41	<20	<20	<20			40	36	41	25
Parkland	322402		42	<20	<20	<20			45	41	46	24
Parkland	322480		41	<20	<20	<20			40	36	41	26
Parkland	322939		41	<20	<20	<20			44	40	45	24
Parkland	2008440		37	<20	<20	<20			37	33	38	25
Parkland	2008441		36	<20	<20	<20			33	29	34	24
Parkland	2008442		39	<20	<20	<20			37	33	38	23
Parkland	2008443		36	<20	<20	<20			36	32	37	23
Parkland	2008444		38	<20	<20	<20			35	32	36	24
Parkland	2008445		58	<20	<20	<20			58	54	59	28
Parkland	2008446		52	<20	<20	37			72	69	74	<20
Parkland	2008447		50	<20	<20	<20			57	54	59	<20
Parkland	2008448		43	23	<20	<20			52	48	53	<20
Parkland	2008449		40	<20	<20	<20			37	33	38	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Parkland	2008450		40	<20	<20	<20			38	34	39	29
Parkland	2008451		37	<20	<20	<20			40	36	41	38
Residential	254161	45	30	<20	<20	<20			72	68	73	<20
Residential	254164	45	64	<20	<20	<20			78	75	80	<20
Residential	254168	45	75	<20	<20	<20			77	73	78	<20
Residential	254170	45	73	<20	<20	<20			74	70	75	<20
Residential	254179	45	68	<20	<20	<20			69	65	70	<20
Residential	254181	45	57	<20	<20	<20			67	63	69	<20
Residential	254188	45	48	<20	<20	<20			56	52	57	<20
Residential	254193	45	35	<20	<20	<20			56	52	57	<20
Residential	254219	45	34	<20	<20	<20			52	48	53	<20
Residential	254221	45	45	<20	<20	<20			50	46	51	<20
Residential	254250	45	50	<20	<20	<20			88	84	89	<20
Residential	254255	45	49	<20	<20	<20			60	56	61	<20
Residential	254261	45	32	<20	<20	<20			39	35	40	<20
Residential	254276	45	48	21	<20	<20			67	63	68	<20
Residential	254282	45	46	25	<20	<20			49	45	50	<20
Residential	254290	45	44	23	<20	<20			50	46	51	<20
Residential	254295	45	34	<20	<20	<20			37	33	38	<20
Residential	254300	45	46	27	<20	<20			52	48	53	<20
Residential	254307	45	44	23	<20	<20			50	46	51	<20
Residential	254308	45	46	27	<20	<20			52	48	54	<20
Residential	254312	45	44	23	<20	<20			48	44	49	<20
Residential	254313	45	49	26	<20	<20			52	48	54	<20
Residential	254314	45	43	23	<20	<20			50	45	51	<20
Residential	254315	45	48	26	<20	<20			52	48	54	<20
Residential	254318	45	33	23	<20	<20			44	41	46	<20
Residential	254319	45	51	26	<20	<20			54	50	55	<20
Residential	254320	45	49	27	<20	<20			53	49	55	<20
Residential	254324	45	50	25	<20	<20			53	49	54	<20
Residential	254325	45	38	<20	<20	<20			38	35	40	<20
Residential	254332	45	49	25	<20	<20			54	50	55	<20
Residential	254336	45	37	<20	<20	<20			38	34	39	<20
Residential	254340	45	54	28	<20	<20			56	51	57	<20
Residential	254344	45	52	27	<20	<20			55	51	56	<20
Residential	254346	45	52	28	<20	<20			55	51	56	<20
Residential	254347	45	38	31	20	<20			68	64	69	<20
Residential	254348	45	53	28	<20	<20			55	51	56	<20
Residential	254354	45	48	24	<20	<20			52	48	53	<20
Residential	254357	45	46	24	<20	<20			53	48	54	<20
Residential	254358	45	51	26	<20	<20			54	50	56	<20
Residential	254361	45	48	24	<20	<20			52	48	53	<20
Residential	254365	45	49	24	<20	<20			52	48	53	<20
Residential	254367	45	46	24	<20	<20			53	49	55	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	254369	45	53	28	<20	<20			56	52	57	<20
Residential	254370	45	49	24	<20	<20			52	48	53	<20
Residential	254372	45	47	24	<20	<20			51	47	52	<20
Residential	254376	45	56	28	<20	<20			57	53	58	<20
Residential	254377	45	46	25	<20	<20			53	49	55	<20
Residential	254378	45	48	24	<20	<20			55	50	56	<20
Residential	254381	45	39	23	<20	<20			53	49	54	<20
Residential	254383	45	42	24	<20	<20			54	50	55	<20
Residential	254384	45	53	26	<20	<20			57	53	58	<20
Residential	254387	45	36	21	<20	<20			51	47	52	<20
Residential	254388	45	51	25	<20	<20			55	51	56	<20
Residential	254389	45	47	24	<20	<20			55	51	56	<20
Residential	254391	45	47	23	<20	<20			54	50	55	<20
Residential	254396	45	51	26	<20	<20			56	51	57	<20
Residential	254400	45	55	27	<20	<20			56	52	58	<20
Residential	254401	45	41	23	<20	<20			54	50	55	<20
Residential	254402	45	50	25	<20	<20			55	51	56	<20
Residential	254403	45	55	26	<20	<20			57	53	59	<20
Residential	254404	45	43	24	<20	<20			54	50	55	<20
Residential	254406	45	51	24	<20	<20			56	52	57	<20
Residential	254408	45	47	24	<20	<20			54	50	55	<20
Residential	254410	45	47	24	<20	<20			55	51	56	<20
Residential	254411	45	46	24	<20	<20			55	50	56	<20
Residential	254412	45	56	28	<20	<20			58	54	60	<20
Residential	254419	45	46	24	<20	<20			55	51	56	<20
Residential	254421	45	56	26	<20	<20			58	54	59	<20
Residential	254422	45	49	24	<20	<20			56	52	57	<20
Residential	254425	45	46	24	<20	<20			55	51	56	<20
Residential	254427	45	46	24	<20	<20			55	51	56	<20
Residential	254431	45	48	24	<20	<20			56	52	57	<20
Residential	254433	45	57	28	<20	<20			58	54	60	<20
Residential	254437	45	53	25	<20	<20			56	52	58	<20
Residential	254438	45	49	24	<20	<20			56	52	57	<20
Residential	254440	45	48	25	<20	<20			52	48	54	<20
Residential	254441	45	51	25	<20	<20			56	52	57	<20
Residential	254442	45	47	24	<20	<20			56	52	57	<20
Residential	254444	45	51	25	<20	<20			58	54	59	<20
Residential	254446	45	39	24	<20	<20			57	53	58	<20
Residential	254448	45	50	26	<20	<20			58	54	59	<20
Residential	254449	45	47	24	<20	<20			58	54	59	<20
Residential	254453	45	58	28	<20	<20			60	56	61	<20
Residential	254456	45	48	24	<20	<20			57	53	58	<20
Residential	254458	45	54	26	<20	<20			59	55	60	<20
Residential	254460	45	45	25	<20	<20			56	52	58	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	254462	45	55	26	<20	<20			59	55	60	<20
Residential	254463	45	53	25	<20	<20			58	54	59	<20
Residential	254465	45	44	24	<20	<20			57	53	58	<20
Residential	254468	45	44	24	<20	<20			57	53	58	<20
Residential	254469	45	49	24	<20	<20			58	54	59	<20
Residential	254470	45	53	25	<20	<20			60	56	61	<20
Residential	254476	45	61	29	<20	<20			63	59	65	<20
Residential	254478	45	44	24	<20	<20			56	51	57	<20
Residential	254484	45	43	25	<20	<20			57	53	58	<20
Residential	254486	45	43	25	<20	<20			58	54	59	<20
Residential	254487	45	41	24	<20	<20			57	52	58	<20
Residential	254490	45	49	24	<20	<20			60	56	61	<20
Residential	254492	45	45	26	<20	<20			58	54	60	<20
Residential	254493	45	43	25	<20	<20			56	52	57	<20
Residential	254494	45	51	25	<20	<20			60	56	61	<20
Residential	254499	45	42	24	<20	<20			57	53	58	<20
Residential	254500	45	47	25	<20	<20			58	54	59	<20
Residential	254501	45	44	24	<20	<20			57	53	58	<20
Residential	254502	45	61	29	<20	<20			63	59	64	<20
Residential	254507	45	52	25	<20	<20			61	57	62	<20
Residential	254508	45	56	27	<20	<20			63	59	64	<20
Residential	254516	45	46	24	<20	<20			59	55	60	<20
Residential	254517	45	56	27	<20	<20			63	59	64	<20
Residential	254521	45	46	25	<20	<20			58	54	60	<20
Residential	254524	45	52	25	<20	<20			63	59	64	<20
Residential	254526	45	46	27	<20	<20			59	55	60	<20
Residential	254529	45	46	26	<20	<20			58	54	59	<20
Residential	254531	45	46	26	<20	<20			58	54	60	<20
Residential	254532	45	54	25	<20	<20			63	59	64	<20
Residential	254533	45	51	27	<20	<20			63	59	64	<20
Residential	254534	45	63	29	<20	<20			67	63	68	<20
Residential	254535	45	49	25	<20	<20			60	56	62	<20
Residential	254536	45	60	27	<20	<20			66	62	67	<20
Residential	254537	45	46	25	<20	<20			58	54	59	<20
Residential	254539	45	60	29	<20	<20			66	62	67	<20
Residential	254540	45	57	26	<20	<20			66	63	68	<20
Residential	254542	45	57	27	<20	<20			66	62	67	<20
Residential	254546	45	53	25	<20	<20			67	63	68	<20
Residential	254549	45	51	27	<20	<20			67	63	68	<20
Residential	254550	45	51	28	<20	<20			67	63	68	<20
Residential	254551	45	65	29	<20	<20			73	69	74	<20
Residential	254558	45	66	29	<20	<20			77	73	78	<20
Residential	254559	45	65	29	<20	<20			76	73	78	<20
Residential	254560	45	52	25	<20	<20			64	60	65	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	254562	45	64	29	<20	<20			78	75	80	<20
Residential	254565	45	63	29	<20	<20			78	74	79	<20
Residential	254568	45	49	26	<20	<20			67	64	69	<20
Residential	254571	45	49	25	<20	<20			67	63	68	<20
Residential	254573	45	49	24	<20	<20			67	63	68	<20
Residential	254578	45	48	28	<20	<20			67	63	68	<20
Residential	254587	45	46	24	<20	<20			67	63	68	<20
Residential	254589	45	53	29	<20	<20			77	73	78	<20
Residential	254594	45	46	24	<20	<20			67	63	68	<20
Residential	254595	45	53	26	<20	<20			78	74	79	<20
Residential	254598	45	53	26	<20	<20			77	73	78	<20
Residential	254601	45	46	26	<20	<20			68	64	70	<20
Residential	254603	45	53	28	<20	<20			78	74	79	<20
Residential	254609	45	61	29	<20	<20			89	86	91	<20
Residential	254612	45	62	29	<20	<20			74	70	75	<20
Residential	254614	45	55	29	<20	<20			85	81	87	<20
Residential	254628	45	53	29	<20	<20			69	65	70	<20
Residential	254635	45	49	29	<20	<20			71	67	72	<20
Residential	254640	45	35	29	<20	<20			42	38	44	<20
Residential	254656	45	26	<20	<20	<20			50	46	51	<20
Residential	254657	45	36	<20	<20	<20			37	34	39	<20
Residential	254661	45	31	<20	<20	<20			63	60	65	<20
Residential	254675	45	<20	<20	<20	<20			45	41	46	<20
Residential	254681	45	<20	<20	<20	<20			43	39	44	<20
Residential	254682	45	<20	<20	<20	<20			42	38	43	<20
Residential	254683	45	<20	<20	<20	<20			42	38	43	<20
Residential	254689	45	<20	<20	<20	<20			42	38	43	<20
Residential	254690	45	<20	<20	<20	<20			42	38	43	<20
Residential	254691	45	<20	<20	<20	<20			42	38	43	<20
Residential	254705	45	20	<20	<20	<20			43	39	45	23
Residential	254714	45	25	<20	<20	<20			45	41	46	29
Residential	254717	45	25	<20	<20	<20			47	43	48	31
Residential	254719	45	41	<20	<20	<20			40	37	42	38
Residential	254720	45	37	<20	<20	<20			41	37	42	39
Residential	254728	45	44	<20	<20	<20			48	44	50	46
Residential	254730	45	45	<20	<20	<20			49	45	51	47
Residential	254731	45	41	<20	<20	<20			45	41	46	43
Residential	254736	45	42	<20	<20	<20			44	40	45	42
Residential	254745	45	38	<20	<20	<20			45	41	46	40
Residential	254747	45	43	<20	<20	<20			46	42	47	36
Residential	254755	45	39	<20	<20	<20			40	36	41	29
Residential	254757	45	42	<20	<20	<20			45	41	46	32
Residential	254762	45	40	<20	<20	<20			41	37	42	27
Residential	254769	45	42	<20	<20	<20			44	40	46	31

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	254783	45	45	<20	<20	<20			48	44	49	33
Residential	254787	45	54	<20	<20	<20			59	55	61	38
Residential	254790	45	53	<20	<20	<20			58	54	59	37
Residential	254808	45	44	<20	<20	<20			44	40	46	26
Residential	254810	45	36	<20	<20	<20			38	34	39	23
Residential	254817	45	36	<20	<20	<20			38	34	40	20
Residential	254828	45	63	<20	<20	<20			65	61	66	27
Residential	254837	45	31	<20	<20	<20			38	35	40	<20
Residential	254892	45	32	<20	<20	<20			39	35	40	<20
Residential	254987	45	36	<20	<20	<20			48	44	49	<20
Residential	255054	45	38	<20	<20	<20			44	40	45	<20
Residential	255080	45	41	<20	<20	<20			47	43	48	<20
Residential	255091	45	31	<20	<20	<20			38	34	40	<20
Residential	255093	45	30	<20	<20	<20			39	35	40	<20
Residential	255097	45	31	<20	<20	<20			39	36	41	<20
Residential	255114	45	38	<20	<20	<20			38	35	40	<20
Residential	255143	45	32	<20	<20	<20			44	40	45	<20
Residential	255156	45	39	<20	<20	<20			39	36	41	<20
Residential	255158	45	40	<20	<20	<20			40	36	41	<20
Residential	255159	45	37	<20	<20	<20			46	42	47	<20
Residential	255192	45	38	<20	<20	<20			38	34	39	<20
Residential	255220	45	34	<20	<20	<20			37	34	39	<20
Residential	255223	45	39	<20	<20	<20			40	36	41	<20
Residential	255238	45	33	<20	<20	<20			43	39	44	<20
Residential	255240	45	35	<20	<20	<20			44	40	45	<20
Residential	255248	45	45	<20	<20	<20			48	44	49	<20
Residential	255277	45	50	24	<20	<20			53	49	54	<20
Residential	255295	45	41	25	<20	<20			42	38	43	<20
Residential	255307	45	36	27	<20	<20			39	35	40	<20
Residential	255309	45	35	27	<20	<20			38	34	39	<20
Residential	255318	45	45	<20	<20	<20			60	56	61	<20
Residential	255333	45	53	<20	<20	<20			62	58	63	<20
Residential	255336	45	51	<20	<20	<20			53	49	55	<20
Residential	255346	45	57	<20	<20	<20			76	73	78	<20
Residential	255349	45	47	<20	<20	<20			53	49	54	<20
Residential	255350	45	50	<20	<20	<20			66	62	67	<20
Residential	255357	45	41	<20	<20	<20			63	59	64	<20
Residential	255377	45	47	<20	<20	<20			47	43	48	<20
Residential	255387	45	50	<20	<20	<20			52	48	53	<20
Residential	255388	45	52	<20	<20	<20			53	49	54	<20
Residential	255394	45	47	<20	<20	<20			54	50	55	<20
Residential	255395	45	37	<20	<20	<20			42	38	43	<20
Residential	255396	45	41	<20	<20	<20			44	40	45	<20
Residential	255402	45	36	<20	<20	<20			40	36	41	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	255406	45	35	<20	<20	<20			38	35	40	<20
Residential	255412	45	36	<20	<20	<20			43	39	44	<20
Residential	255433	45	40	<20	<20	<20			59	55	60	<20
Residential	255453	45	48	<20	<20	<20			48	44	49	<20
Residential	255455	45	50	<20	<20	<20			50	46	51	<20
Residential	255487	45	35	<20	<20	<20			50	46	52	<20
Residential	255511	45	26	<20	<20	<20			65	61	67	<20
Residential	255514	45	26	<20	<20	<20			59	55	60	<20
Residential	255518	45	25	<20	<20	<20			38	34	39	<20
Residential	255520	45	25	<20	<20	<20			37	34	39	<20
Residential	255558	45	28	<20	<20	<20			39	35	40	<20
Residential	255595	45	43	<20	<20	<20			48	44	49	29
Residential	255601	45	44	<20	<20	<20			49	45	50	28
Residential	255603	45	39	<20	<20	<20			53	49	54	41
Residential	255605	45	38	<20	<20	<20			54	50	55	41
Residential	255617	45	35	<20	<20	<20			42	38	43	35
Residential	255620	45	34	<20	<20	<20			35	32	37	32
Residential	255621	45	34	<20	<20	<20			35	32	37	33
Residential	255630	45	45	<20	<20	<20			49	45	51	43
Residential	255640	45	36	<20	<20	<20			39	35	40	37
Residential	255641	45	47	<20	<20	<20			50	46	51	45
Residential	255691	45	55	<20	<20	<20			56	52	57	33
Residential	255776	45	41	<20	<20	<20			58	54	59	22
Residential	255777	45	41	<20	<20	<20			57	53	58	21
Residential	255835	45	43	<20	<20	<20			45	41	46	<20
Residential	255861	45	42	<20	<20	<20			44	40	45	<20
Residential	255865	45	41	<20	<20	<20			43	39	44	<20
Residential	255892	45	39	<20	<20	<20			41	38	43	<20
Residential	255934	45	47	<20	<20	<20			62	59	64	<20
Residential	255984	45	53	<20	<20	<20			56	52	57	<20
Residential	256012	45	38	<20	<20	<20			38	35	40	<20
Residential	256019	45	65	<20	<20	<20			73	70	75	<20
Residential	256048	45	43	<20	<20	<20			47	43	48	<20
Residential	256057	45	44	<20	<20	<20			54	50	55	<20
Residential	256166	45	60	<20	<20	<20			64	60	66	<20
Residential	256191	45	66	<20	<20	<20			62	58	63	<20
Residential	256192	45	66	<20	<20	<20			63	59	64	<20
Residential	256213	45	53	<20	<20	<20			55	51	57	<20
Residential	256248	45	68	<20	<20	<20			63	59	64	<20
Residential	256284	45	43	<20	<20	<20			43	39	44	<20
Residential	256289	45	47	<20	<20	20			45	41	47	<20
Residential	256408	45	33	<20	<20	23			45	41	46	<20
Residential	256574	45	37	<20	<20	33			44	40	45	<20
Residential	256709	45	41	<20	<20	31			41	38	43	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	256813	45	42	<20	<20	37			44	40	45	<20
Residential	256817	45	43	<20	<20	32			50	46	51	<20
Residential	256879	45	39	<20	<20	27			41	38	43	<20
Residential	256882	45	40	<20	<20	27			42	38	43	<20
Residential	256926	45	44	<20	<20	38			43	39	44	<20
Residential	256951	45	42	<20	<20	37			41	37	42	<20
Residential	257009	45	42	<20	<20	29			41	38	43	<20
Residential	257028	45	57	<20	<20	30			54	50	55	<20
Residential	257039	45	42	<20	<20	33			40	36	41	<20
Residential	257046	45	55	<20	<20	30			52	48	53	<20
Residential	257128	45	40	<20	<20	31			39	35	41	<20
Residential	259291	45	53	<20	<20	22			48	44	49	<20
Residential	259381	45	46	<20	<20	23			44	40	45	<20
Residential	259957	45	53	<20	<20	23			47	43	48	<20
Residential	260029	45	48	<20	<20	23			49	45	50	<20
Residential	260058	45	57	<20	<20	26			76	72	77	<20
Residential	260067	45	61	<20	<20	26			76	73	78	<20
Residential	260069	45	46	<20	<20	25			50	46	51	<20
Residential	260119	45	62	<20	<20	24			68	64	69	<20
Residential	260150	45	55	<20	<20	28			64	60	65	<20
Residential	260165	45	60	<20	<20	25			62	59	64	<20
Residential	260169	45	69	<20	<20	25			70	67	72	<20
Residential	260170	45	54	<20	<20	28			69	65	70	<20
Residential	260189	45	69	<20	<20	26			72	68	73	<20
Residential	260213	45	66	<20	<20	28			74	71	76	<20
Residential	260446	45	49	<20	<20	28			50	46	51	<20
Residential	260528	45	59	<20	<20	31			70	66	71	<20
Residential	260630	45	40	<20	<20	29			42	38	43	<20
Residential	260789	45	38	<20	<20	28			37	33	38	<20
Residential	260930	45	55	<20	<20	40			60	56	61	<20
Residential	261084	45	58	<20	<20	47			70	67	72	<20
Residential	261368	45	48	<20	<20	36			73	69	74	<20
Residential	261386	45	50	<20	<20	36			72	68	74	<20
Residential	261419	45	41	<20	<20	27			44	40	45	<20
Residential	261452	45	52	<20	<20	42			68	64	69	<20
Residential	261465	45	52	<20	<20	45			64	60	65	<20
Residential	261493	45	53	<20	<20	38			71	68	73	<20
Residential	261535	45	51	<20	<20	42			64	60	65	<20
Residential	261542	45	30	<20	<20	22			39	36	41	<20
Residential	261572	45	56	<20	<20	40			65	61	67	<20
Residential	261608	45	57	<20	<20	37			62	58	63	<20
Residential	261613	45	56	<20	<20	43			60	57	62	<20
Residential	261633	45	32	<20	<20	23			40	37	42	<20
Residential	261638	45	55	<20	<20	36			65	61	66	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	261649	45	51	<20	<20	36			63	59	65	<20
Residential	261661	45	58	<20	<20	39			62	58	64	<20
Residential	261665	45	52	<20	<20	35			66	62	68	<20
Residential	261686	45	54	<20	<20	35			69	65	70	<20
Residential	261713	45	53	<20	<20	35			62	58	63	<20
Residential	261717	45	54	<20	<20	36			66	62	67	<20
Residential	261720	45	51	<20	<20	36			69	65	70	<20
Residential	261729	45	50	<20	<20	35			70	66	71	<20
Residential	261739	45	51	<20	<20	34			70	66	71	<20
Residential	261781	45	58	<20	<20	35			61	57	62	<20
Residential	261786	45	52	<20	<20	36			60	56	61	<20
Residential	261802	45	54	<20	<20	34			64	60	65	<20
Residential	261806	45	51	<20	<20	40			59	55	61	<20
Residential	261855	45	63	<20	<20	41			56	52	57	<20
Residential	261888	45	61	<20	<20	36			59	55	60	<20
Residential	261892	45	66	<20	<20	40			56	52	57	<20
Residential	261908	45	56	<20	<20	32			71	68	73	<20
Residential	261910	45	65	<20	<20	39			57	53	58	<20
Residential	261913	45	66	<20	<20	40			56	52	57	<20
Residential	261927	45	67	<20	<20	40			56	52	58	<20
Residential	261958	45	51	<20	<20	46			46	42	48	<20
Residential	261969	45	57	<20	<20	31			70	66	71	<20
Residential	261999	45	29	<20	<20	20			40	36	42	<20
Residential	262034	45	60	<20	<20	36			56	52	58	<20
Residential	262063	45	58	<20	<20	37			57	53	59	<20
Residential	262104	45	58	<20	<20	34			56	52	57	<20
Residential	262181	45	57	<20	<20	32			55	51	56	<20
Residential	262211	45	59	<20	<20	41			49	45	51	<20
Residential	262286	45	56	<20	<20	31			55	51	56	<20
Residential	263137	45	47	<20	<20	30			47	43	48	<20
Residential	263676	45	42	<20	<20	28			44	40	45	<20
Residential	263929	45	39	<20	<20	27			41	37	42	<20
Residential	314565	45	44	<20	<20	<20			42	38	44	<20
Residential	314594	45	44	<20	<20	<20			42	39	44	<20
Residential	314600	45	44	<20	<20	<20			42	38	43	<20
Residential	314629	45	47	<20	<20	<20			43	39	44	<20
Residential	314940	45	49	<20	<20	<20			47	43	48	<20
Residential	315063	45	48	<20	<20	<20			50	46	51	<20
Residential	315138	45	59	<20	<20	<20			73	69	74	<20
Residential	315139	45	59	<20	<20	<20			75	72	77	<20
Residential	315262	45	60	<20	<20	<20			65	62	67	<20
Residential	315302	45	56	<20	<20	<20			64	60	65	<20
Residential	315314	45	45	<20	<20	<20			49	45	50	<20
Residential	316186	45	44	<20	<20	<20			46	42	47	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	316281	45	36	<20	<20	<20			40	36	41	<20
Residential	316291	45	37	<20	<20	<20			39	36	41	<20
Residential	316328	45	45	<20	<20	<20			53	49	54	<20
Residential	316394	45	49	<20	<20	<20			50	46	51	<20
Residential	316410	45	35	<20	<20	<20			39	35	40	<20
Residential	316470	45	47	<20	<20	<20			47	43	48	<20
Residential	316509	45	47	<20	<20	<20			47	43	49	<20
Residential	316523	45	47	<20	<20	<20			47	43	48	<20
Residential	316557	45	46	<20	<20	<20			46	42	48	<20
Residential	316558	45	46	<20	<20	<20			46	42	48	<20
Residential	316573	45	41	<20	<20	<20			47	43	48	<20
Residential	316600	45	41	<20	<20	<20			47	43	48	<20
Residential	316608	45	41	<20	<20	<20			46	42	47	<20
Residential	316612	45	43	<20	<20	<20			45	41	46	<20
Residential	316617	45	41	<20	<20	<20			45	41	47	<20
Residential	316621	45	41	<20	<20	<20			46	42	47	<20
Residential	316622	45	40	<20	<20	<20			46	42	47	<20
Residential	316637	45	39	<20	<20	<20			45	41	47	<20
Residential	316641	45	40	<20	<20	<20			45	41	46	<20
Residential	316648	45	43	<20	<20	<20			45	41	46	<20
Residential	316649	45	40	<20	<20	<20			45	41	46	<20
Residential	316659	45	40	<20	<20	<20			45	41	47	<20
Residential	316673	45	40	<20	<20	<20			45	41	46	<20
Residential	316675	45	40	<20	<20	<20			44	40	46	<20
Residential	316677	45	40	<20	<20	<20			46	42	47	<20
Residential	316695	45	40	<20	<20	<20			45	41	46	<20
Residential	316710	45	37	<20	<20	<20			44	40	45	<20
Residential	316712	45	40	<20	<20	<20			44	40	45	<20
Residential	316713	45	40	<20	<20	<20			45	41	46	<20
Residential	316716	45	39	<20	<20	<20			43	39	44	<20
Residential	316717	45	43	<20	<20	<20			45	41	47	<20
Residential	316720	45	40	<20	<20	<20			44	40	45	<20
Residential	316722	45	39	<20	<20	<20			42	38	43	<20
Residential	316724	45	40	<20	<20	<20			43	39	45	<20
Residential	316726	45	37	<20	<20	<20			43	39	44	<20
Residential	316734	45	37	<20	<20	<20			44	40	45	<20
Residential	316738	45	43	<20	<20	<20			44	40	45	<20
Residential	316739	45	39	<20	<20	<20			43	39	45	<20
Residential	316746	45	40	<20	<20	<20			44	40	45	<20
Residential	316747	45	39	<20	<20	<20			42	37	43	<20
Residential	316756	45	39	<20	<20	<20			43	39	44	<20
Residential	316762	45	38	<20	<20	<20			43	39	44	<20
Residential	316763	45	42	<20	<20	<20			45	41	46	<20
Residential	316764	45	38	<20	<20	<20			42	38	43	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	316770	45	39	<20	<20	<20			42	38	44	<20
Residential	316772	45	39	<20	<20	<20			43	39	44	<20
Residential	316776	45	36	<20	<20	<20			41	37	42	<20
Residential	316778	45	39	<20	<20	<20			43	38	44	<20
Residential	316781	45	38	<20	<20	<20			43	39	44	<20
Residential	316787	45	39	<20	<20	<20			42	38	44	<20
Residential	316793	45	37	<20	<20	<20			41	38	43	<20
Residential	316797	45	39	<20	<20	<20			42	38	44	<20
Residential	316800	45	36	<20	<20	<20			40	36	41	<20
Residential	316811	45	39	<20	<20	<20			42	38	43	<20
Residential	316815	45	38	<20	<20	<20			42	39	44	<20
Residential	316820	45	37	<20	<20	<20			43	39	44	<20
Residential	316821	45	38	<20	<20	<20			42	38	44	<20
Residential	316823	45	39	<20	<20	<20			42	38	43	<20
Residential	316825	45	38	<20	<20	<20			42	38	43	<20
Residential	316826	45	36	<20	<20	<20			40	36	42	<20
Residential	316831	45	38	<20	<20	<20			42	38	43	<20
Residential	316833	45	37	<20	<20	<20			41	37	42	<20
Residential	316846	45	38	<20	<20	<20			42	38	43	<20
Residential	316848	45	36	<20	<20	<20			42	38	44	<20
Residential	316849	45	43	<20	<20	<20			43	39	44	<20
Residential	316860	45	37	<20	<20	<20			41	37	43	<20
Residential	316861	45	38	<20	<20	<20			42	38	43	<20
Residential	316862	45	37	<20	<20	<20			40	36	41	<20
Residential	316866	45	37	<20	<20	<20			41	37	43	<20
Residential	316869	45	38	<20	<20	<20			41	37	42	<20
Residential	316877	45	37	<20	<20	<20			41	37	42	<20
Residential	316878	45	38	<20	<20	<20			41	37	42	<20
Residential	316880	45	38	<20	<20	<20			41	37	42	<20
Residential	316889	45	37	<20	<20	<20			41	37	42	<20
Residential	316890	45	39	<20	<20	<20			41	37	42	<20
Residential	316902	45	36	<20	<20	<20			42	39	44	<20
Residential	316903	45	37	<20	<20	<20			41	37	42	<20
Residential	316907	45	36	<20	<20	<20			39	36	41	<20
Residential	316908	45	38	<20	<20	<20			41	37	42	<20
Residential	316914	45	38	<20	<20	<20			41	37	42	<20
Residential	316915	45	38	<20	<20	<20			41	37	42	<20
Residential	316916	45	37	<20	<20	<20			40	37	42	<20
Residential	316917	45	38	<20	<20	<20			40	37	42	<20
Residential	316920	45	37	<20	<20	<20			42	38	43	<20
Residential	316924	45	35	<20	<20	<20			41	37	42	<20
Residential	316926	45	37	<20	<20	<20			41	37	42	<20
Residential	316927	45	37	<20	<20	<20			40	37	42	<20
Residential	316929	45	36	<20	<20	<20			40	36	42	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	316930	45	37	<20	<20	<20			40	37	42	<20
Residential	316931	45	35	<20	<20	<20			39	35	40	<20
Residential	316938	45	37	<20	<20	<20			40	36	41	<20
Residential	316939	45	41	<20	<20	<20			41	38	43	<20
Residential	316942	45	37	<20	<20	<20			40	36	41	<20
Residential	316944	45	37	<20	<20	<20			39	36	41	<20
Residential	316948	45	36	<20	<20	<20			38	34	39	<20
Residential	316952	45	35	<20	<20	<20			39	35	40	<20
Residential	316953	45	37	<20	<20	<20			40	36	42	<20
Residential	316954	45	36	<20	<20	<20			39	35	41	<20
Residential	316957	45	37	<20	<20	<20			41	38	43	<20
Residential	316960	45	37	<20	<20	<20			40	36	41	<20
Residential	316962	45	40	<20	<20	<20			40	36	41	<20
Residential	316963	45	36	<20	<20	<20			40	36	42	<20
Residential	316966	45	35	<20	<20	<20			39	36	41	<20
Residential	316970	45	37	<20	<20	<20			39	36	41	<20
Residential	316971	45	37	<20	<20	<20			41	37	42	<20
Residential	316973	45	36	<20	<20	<20			38	34	39	<20
Residential	316975	45	34	<20	<20	<20			39	36	41	<20
Residential	316976	45	36	<20	<20	<20			42	38	43	<20
Residential	316980	45	37	<20	<20	<20			40	36	41	<20
Residential	316982	45	37	<20	<20	<20			39	35	41	<20
Residential	316992	45	37	<20	<20	<20			40	36	41	<20
Residential	316993	45	36	<20	<20	<20			39	35	41	<20
Residential	316997	45	37	<20	<20	<20			42	38	43	<20
Residential	317002	45	37	<20	<20	<20			40	36	42	<20
Residential	317003	45	37	<20	<20	<20			40	36	42	<20
Residential	317005	45	34	<20	<20	<20			39	36	41	<20
Residential	317011	45	35	<20	<20	<20			39	35	40	<20
Residential	317013	45	34	<20	<20	<20			39	35	40	<20
Residential	317018	45	36	<20	<20	<20			40	36	41	<20
Residential	317021	45	36	<20	<20	<20			39	35	41	<20
Residential	317022	45	37	<20	<20	<20			39	35	40	<20
Residential	317024	45	37	<20	<20	<20			40	36	41	<20
Residential	317027	45	35	<20	<20	<20			41	37	42	<20
Residential	317030	45	34	<20	<20	<20			36	32	37	<20
Residential	317033	45	37	<20	<20	<20			40	36	41	<20
Residential	317035	45	36	<20	<20	<20			40	36	41	<20
Residential	317041	45	35	<20	<20	<20			40	36	41	<20
Residential	317042	45	34	<20	<20	<20			35	31	36	<20
Residential	317043	45	37	<20	<20	<20			39	35	41	<20
Residential	317044	45	35	<20	<20	<20			37	33	38	<20
Residential	317045	45	34	<20	<20	<20			39	35	40	<20
Residential	317046	45	36	<20	<20	<20			38	35	40	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	317047	45	36	<20	<20	<20			39	35	41	<20
Residential	317060	45	36	<20	<20	<20			39	35	40	<20
Residential	317062	45	35	<20	<20	<20			40	37	42	<20
Residential	317063	45	36	<20	<20	<20			40	36	42	<20
Residential	317067	45	41	<20	<20	<20			41	37	43	<20
Residential	317068	45	36	<20	<20	<20			40	36	41	<20
Residential	317074	45	34	<20	<20	<20			37	34	39	<20
Residential	317077	45	35	<20	<20	<20			39	35	40	<20
Residential	317078	45	35	<20	<20	<20			39	35	40	<20
Residential	317079	45	34	<20	<20	<20			38	34	39	<20
Residential	317084	45	36	<20	<20	<20			39	35	40	<20
Residential	317090	45	35	<20	<20	<20			40	36	41	<20
Residential	317094	45	37	<20	<20	<20			40	36	41	<20
Residential	317096	45	34	<20	<20	<20			38	34	39	<20
Residential	317099	45	35	<20	<20	<20			40	36	41	<20
Residential	317100	45	34	<20	<20	<20			37	34	39	<20
Residential	317101	45	33	<20	<20	<20			37	33	38	<20
Residential	317102	45	35	<20	<20	<20			38	35	40	<20
Residential	317103	45	26	<20	<20	<20			24	22	26	<20
Residential	317104	45	36	<20	<20	<20			40	36	41	<20
Residential	317105	45	34	<20	<20	<20			37	34	39	<20
Residential	317107	45	36	<20	<20	<20			39	35	40	<20
Residential	317109	45	35	<20	<20	<20			37	33	38	<20
Residential	317110	45	26	<20	<20	<20			23	22	25	<20
Residential	317112	45	36	<20	<20	<20			38	35	40	<20
Residential	317118	45	35	<20	<20	<20			38	35	40	<20
Residential	317124	45	28	<20	<20	<20			25	23	27	<20
Residential	317131	45	36	<20	<20	<20			39	35	40	<20
Residential	317135	45	35	<20	<20	<20			38	34	40	<20
Residential	317136	45	35	<20	<20	<20			39	35	40	<20
Residential	317140	45	34	<20	<20	<20			38	34	39	<20
Residential	317144	45	36	<20	<20	<20			38	34	39	<20
Residential	317145	45	37	<20	<20	<20			39	35	40	<20
Residential	317151	45	35	<20	<20	<20			38	35	40	<20
Residential	317154	45	34	<20	<20	<20			40	37	42	<20
Residential	317159	45	34	<20	<20	<20			39	35	40	<20
Residential	317161	45	35	<20	<20	<20			40	35	41	<20
Residential	317171	45	34	<20	<20	<20			36	33	38	<20
Residential	317172	45	33	<20	<20	<20			36	32	37	<20
Residential	317180	45	34	<20	<20	<20			39	35	40	<20
Residential	317183	45	35	<20	<20	<20			39	35	40	<20
Residential	317189	45	29	<20	<20	<20			31	28	33	<20
Residential	317191	45	36	<20	<20	<20			39	35	40	<20
Residential	317192	45	34	<20	<20	<20			36	32	37	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	317193	45	33	<20	<20	<20			34	30	36	<20
Residential	317197	45	35	<20	<20	<20			38	34	39	<20
Residential	317198	45	34	<20	<20	<20			38	34	39	<20
Residential	317199	45	35	<20	<20	<20			37	33	38	<20
Residential	317200	45	35	<20	<20	<20			38	34	39	<20
Residential	317201	45	34	<20	<20	<20			37	33	38	<20
Residential	317206	45	35	<20	<20	<20			39	35	40	<20
Residential	317207	45	35	<20	<20	<20			38	34	39	<20
Residential	317212	45	34	<20	<20	<20			38	35	40	<20
Residential	317213	45	33	<20	<20	<20			37	33	39	<20
Residential	317215	45	35	<20	<20	<20			37	33	38	<20
Residential	317216	45	35	<20	<20	<20			40	36	41	<20
Residential	317223	45	35	<20	<20	<20			38	34	39	<20
Residential	317228	45	35	<20	<20	<20			40	35	41	<20
Residential	317230	45	35	<20	<20	<20			39	35	40	<20
Residential	317241	45	33	<20	<20	<20			36	33	38	<20
Residential	317242	45	27	<20	<20	<20			25	23	27	<20
Residential	317245	45	28	<20	<20	<20			24	23	26	<20
Residential	317246	45	27	<20	<20	<20			23	22	25	<20
Residential	317247	45	35	<20	<20	<20			40	37	42	<20
Residential	317248	45	35	<20	<20	<20			37	33	39	<20
Residential	317250	45	34	<20	<20	<20			39	35	40	<20
Residential	317256	45	35	<20	<20	<20			39	35	40	<20
Residential	317257	45	33	<20	<20	<20			36	32	37	<20
Residential	317258	45	35	<20	<20	<20			38	35	40	<20
Residential	317264	45	32	<20	<20	<20			36	33	38	<20
Residential	317265	45	33	<20	<20	<20			35	31	37	<20
Residential	317266	45	32	<20	<20	<20			35	31	36	<20
Residential	317268	45	34	<20	<20	<20			36	33	38	<20
Residential	317269	45	33	<20	<20	<20			36	32	37	<20
Residential	317270	45	33	<20	<20	<20			36	33	38	<20
Residential	317271	45	35	<20	<20	<20			39	35	40	<20
Residential	317273	45	26	<20	<20	<20			27	25	29	<20
Residential	317274	45	34	<20	<20	<20			38	34	39	<20
Residential	317277	45	35	<20	<20	<20			40	36	42	<20
Residential	317278	45	34	<20	<20	<20			35	32	37	<20
Residential	317282	45	33	<20	<20	<20			36	32	37	<20
Residential	317285	45	25	<20	<20	<20			24	22	26	<20
Residential	317286	45	33	<20	<20	<20			35	31	36	<20
Residential	317290	45	34	<20	<20	<20			38	34	39	<20
Residential	317297	45	34	<20	<20	<20			38	34	39	<20
Residential	317300	45	35	<20	<20	<20			39	35	40	<20
Residential	317312	45	29	<20	<20	<20			27	24	29	<20
Residential	317322	45	34	<20	<20	<20			40	36	41	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	317325	45	34	<20	<20	<20			37	33	38	<20
Residential	317326	45	34	<20	<20	<20			39	36	41	<20
Residential	317330	45	28	<20	<20	<20			25	23	27	<20
Residential	317331	45	35	<20	<20	<20			38	35	40	<20
Residential	317335	45	34	<20	<20	<20			39	35	40	<20
Residential	317346	45	26	<20	<20	<20			28	25	30	<20
Residential	317352	45	31	<20	<20	<20			33	30	35	<20
Residential	317355	45	36	<20	<20	<20			38	34	39	<20
Residential	317357	45	30	<20	<20	<20			30	27	32	<20
Residential	317358	45	31	<20	<20	<20			34	30	35	<20
Residential	317361	45	34	<20	<20	<20			39	35	41	<20
Residential	317371	45	34	<20	<20	<20			39	36	41	<20
Residential	317372	45	30	<20	<20	<20			29	26	31	<20
Residential	317373	45	25	<20	<20	<20			26	24	28	<20
Residential	317378	45	34	<20	<20	<20			38	34	40	<20
Residential	317379	45	32	<20	<20	<20			36	33	38	<20
Residential	317385	45	33	<20	<20	<20			36	32	37	<20
Residential	317397	45	33	<20	<20	<20			36	32	37	<20
Residential	317399	45	34	<20	<20	<20			37	33	39	<20
Residential	317411	45	33	<20	<20	<20			35	31	36	<20
Residential	317412	45	29	<20	<20	<20			29	26	30	<20
Residential	317418	45	34	<20	<20	<20			37	34	39	<20
Residential	317423	45	25	<20	<20	<20			27	24	29	<20
Residential	317426	45	35	<20	<20	<20			37	33	38	<20
Residential	317428	45	33	<20	<20	<20			37	33	38	<20
Residential	317429	45	32	<20	<20	<20			37	33	39	<20
Residential	317437	45	30	<20	<20	<20			31	27	32	<20
Residential	317443	45	34	<20	<20	<20			38	34	39	<20
Residential	317452	45	33	<20	<20	<20			34	31	36	<20
Residential	317456	45	31	<20	<20	<20			31	28	33	<20
Residential	317457	45	30	<20	<20	<20			34	31	36	<20
Residential	317460	45	27	<20	<20	<20			24	22	26	<20
Residential	317462	45	30	<20	<20	<20			34	30	36	<20
Residential	317466	45	30	<20	<20	<20			31	28	33	<20
Residential	317467	45	33	<20	<20	<20			35	32	37	<20
Residential	317468	45	33	<20	<20	<20			36	33	38	<20
Residential	317471	45	32	<20	<20	<20			34	30	35	<20
Residential	317473	45	33	<20	<20	<20			36	32	37	<20
Residential	317474	45	29	<20	<20	<20			29	26	31	<20
Residential	317477	45	26	<20	<20	<20			28	25	29	<20
Residential	317480	45	31	<20	<20	<20			31	27	32	<20
Residential	317481	45	35	<20	<20	<20			37	33	38	<20
Residential	317485	45	30	<20	<20	<20			34	31	36	<20
Residential	317489	45	33	<20	<20	<20			35	31	36	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	317493	45	28	<20	<20	<20			30	26	31	<20
Residential	317498	45	32	<20	<20	<20			36	33	38	<20
Residential	317499	45	35	<20	<20	<20			37	33	38	<20
Residential	317502	45	34	<20	<20	<20			37	33	39	<20
Residential	317504	45	29	<20	<20	<20			30	27	32	<20
Residential	317506	45	30	<20	<20	<20			30	27	32	<20
Residential	317508	45	30	<20	<20	<20			33	30	35	<20
Residential	317516	45	32	<20	<20	<20			34	30	35	<20
Residential	317517	45	27	<20	<20	<20			28	25	30	<20
Residential	317523	45	32	<20	<20	<20			34	31	36	<20
Residential	317526	45	29	<20	<20	<20			34	30	35	<20
Residential	317528	45	33	<20	<20	<20			36	32	37	<20
Residential	317530	45	33	<20	<20	<20			35	31	36	<20
Residential	317536	45	33	<20	<20	<20			36	32	38	<20
Residential	317539	45	31	<20	<20	<20			31	28	33	<20
Residential	317544	45	31	<20	<20	<20			32	28	33	<20
Residential	317549	45	31	<20	<20	<20			32	29	34	<20
Residential	317550	45	30	<20	<20	<20			34	30	35	<20
Residential	317554	45	31	<20	<20	<20			34	30	35	<20
Residential	317558	45	32	<20	<20	<20			34	30	35	<20
Residential	317562	45	31	<20	<20	<20			34	30	35	<20
Residential	317580	45	30	<20	<20	<20			33	30	35	<20
Residential	317586	45	32	<20	<20	<20			33	30	35	<20
Residential	317589	45	30	<20	<20	<20			30	27	32	<20
Residential	317602	45	30	<20	<20	<20			31	27	32	<20
Residential	317606	45	28	<20	<20	<20			31	28	32	<20
Residential	317609	45	29	<20	<20	<20			32	29	34	<20
Residential	317611	45	31	<20	<20	<20			33	30	35	<20
Residential	317613	45	31	<20	<20	<20			34	30	35	<20
Residential	317630	45	30	<20	<20	<20			31	27	32	<20
Residential	317636	45	29	<20	<20	<20			33	29	34	<20
Residential	317641	45	31	<20	<20	<20			31	28	33	<20
Residential	317649	45	30	<20	<20	<20			31	28	33	<20
Residential	317658	45	29	<20	<20	<20			29	26	31	<20
Residential	317663	45	31	<20	<20	<20			33	29	34	<20
Residential	317696	45	31	<20	<20	<20			32	28	33	<20
Residential	317697	45	31	<20	<20	<20			33	29	34	<20
Residential	317699	45	29	<20	<20	<20			29	26	31	<20
Residential	317703	45	31	<20	<20	<20			31	27	32	<20
Residential	317712	45	31	<20	<20	<20			31	28	33	<20
Residential	317732	45	31	<20	<20	<20			31	27	32	<20
Residential	317734	45	31	<20	<20	<20			31	28	33	<20
Residential	317749	45	27	<20	<20	<20			30	26	31	<20
Residential	317757	45	28	<20	<20	<20			30	27	31	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	318983	45	34	<20	<20	<20			34	31	36	<20
Residential	318985	45	52	<20	<20	<20			53	49	54	23
Residential	318986	45	37	<20	<20	<20			38	34	40	25
Residential	318992	45	41	<20	<20	<20			45	41	46	43
Residential	318997	45	40	<20	<20	<20			44	41	46	40
Residential	318998	45	38	<20	<20	<20			42	39	44	40
Residential	318999	45	43	<20	<20	<20			42	38	43	40
Residential	319000	45	69	<20	<20	<20			71	68	72	66
Residential	319002	45	33	<20	<20	<20			33	30	35	30
Residential	319003	45	51	<20	<20	<20			61	57	63	58
Residential	319005	45	42	<20	<20	<20			59	55	60	55
Residential	319009	45	50	<20	<20	<20			57	53	58	45
Residential	319012	45	43	<20	<20	<20			58	54	59	43
Residential	319013	45	32	<20	<20	<20			38	35	40	27
Residential	319016	45	34	<20	<20	<20			49	45	50	32
Residential	319017	45	41	<20	<20	<20			42	38	43	22
Residential	319019	45	32	<20	<20	<20			61	57	62	<20
Residential	319020	45	40	<20	<20	<20			47	43	48	<20
Residential	319022	45	31	<20	<20	<20			50	46	51	<20
Residential	319024	45	33	<20	<20	<20			47	43	48	<20
Residential	319031	45	39	<20	<20	<20			46	42	47	<20
Residential	319032	45	46	<20	<20	<20			49	45	50	<20
Residential	319034	45	36	<20	<20	<20			36	32	37	<20
Residential	319035	45	40	<20	<20	<20			40	36	41	<20
Residential	319037	45	49	<20	<20	<20			50	46	51	<20
Residential	319039	45	54	<20	<20	<20			53	49	55	<20
Residential	319040	45	35	<20	<20	<20			44	41	46	<20
Residential	319042	45	43	<20	<20	<20			61	57	62	<20
Residential	319044	45	42	<20	<20	<20			62	58	63	<20
Residential	319045	45	40	<20	<20	<20			65	61	66	<20
Residential	319048	45	39	<20	<20	<20			57	53	59	<20
Residential	319049	45	45	<20	<20	<20			53	49	54	51
Residential	319052	45	34	<20	<20	<20			38	34	39	37
Residential	319053	45	35	<20	<20	<20			38	35	40	38
Residential	319054	45	36	<20	<20	<20			37	34	39	37
Residential	319055	45	36	<20	<20	<20			39	35	40	38
Residential	319057	45	39	<20	<20	<20			41	38	43	40
Residential	319058	45	43	<20	<20	<20			43	39	44	42
Residential	319059	45	37	<20	<20	<20			39	36	41	38
Residential	319061	45	35	<20	<20	<20			38	35	40	37
Residential	319062	45	34	<20	<20	<20			37	33	38	35
Residential	319064	45	35	<20	<20	<20			38	34	39	37
Residential	319066	45	40	<20	<20	<20			44	40	45	42
Residential	319071	45	35	<20	<20	<20			45	41	46	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	319073	45	36	<20	<20	<20			38	34	39	26
Residential	319076	45	36	<20	<20	<20			34	31	36	24
Residential	319077	45	44	<20	<20	<20			51	47	52	48
Residential	319082	45	32	<20	<20	<20			39	35	40	36
Residential	319088	45	35	<20	<20	<20			44	40	46	40
Residential	319090	45	36	<20	<20	<20			43	39	44	37
Residential	319094	45	32	<20	<20	<20			43	39	44	31
Residential	319098	45	60	<20	<20	<20			53	49	54	46
Residential	319099	45	59	<20	<20	<20			54	50	55	43
Residential	319100	45	47	<20	<20	<20			60	56	61	38
Residential	319101	45	63	<20	<20	<20			67	63	68	44
Residential	319103	45	57	<20	<20	<20			64	60	65	44
Residential	319104	45	66	<20	<20	<20			61	57	62	45
Residential	319111	45	41	<20	<20	<20			41	37	42	26
Residential	319112	45	43	<20	<20	<20			43	40	45	42
Residential	319114	45	44	<20	<20	<20			44	40	45	43
Residential	319117	45	41	<20	<20	<20			40	36	41	25
Residential	319121	45	52	<20	<20	<20			71	68	73	<20
Residential	319122	45	38	<20	<20	<20			39	35	40	<20
Residential	319126	45	42	<20	<20	<20			45	41	46	<20
Residential	319129	45	36	<20	<20	<20			36	32	37	<20
Residential	319133	45	34	<20	<20	<20			40	37	42	34
Residential	319134	45	36	<20	<20	<20			41	37	43	36
Residential	319135	45	35	<20	<20	<20			40	36	41	34
Residential	319138	45	50	<20	<20	<20			58	54	59	31
Residential	319141	45	47	<20	<20	<20			48	44	50	28
Residential	319143	45	37	<20	<20	<20			39	35	40	25
Residential	319145	45	41	<20	<20	<20			43	39	44	26
Residential	319147	45	38	<20	<20	<20			49	45	50	43
Residential	319150	45	39	<20	<20	<20			70	67	72	50
Residential	319152	45	35	<20	<20	<20			36	32	37	31
Residential	319154	45	55	<20	<20	<20			88	84	89	29
Residential	319157	45	45	<20	<20	<20			47	43	48	37
Residential	319163	45	59	<20	<20	<20			63	59	64	59
Residential	319166	45	49	<20	<20	<20			63	59	64	40
Residential	319167	45	47	<20	<20	<20			52	48	53	50
Residential	319168	45	48	<20	<20	<20			50	46	51	46
Residential	319174	45	31	<20	<20	<20			45	41	47	<20
Residential	319175	45	31	<20	<20	<20			47	43	48	<20
Residential	319178	45	31	<20	<20	<20			32	29	34	32
Residential	319180	45	32	<20	<20	<20			33	30	35	25
Residential	319183	45	29	<20	<20	20			37	34	39	<20
Residential	319184	45	40	<20	<20	<20			41	37	42	27
Residential	319185	45	39	<20	<20	<20			49	45	50	47

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	319186	45	33	<20	<20	<20			40	37	42	35
Residential	319190	45	37	<20	<20	<20			40	36	41	27
Residential	319191	45	61	<20	<20	<20			69	65	70	25
Residential	319193	45	57	<20	<20	<20			66	62	67	24
Residential	319194	45	48	<20	<20	<20			46	42	47	42
Residential	319199	45	40	<20	<20	<20			67	63	68	63
Residential	319200	45	54	<20	<20	<20			62	58	63	26
Residential	319201	45	40	<20	<20	<20			40	36	41	24
Residential	319203	45	39	<20	<20	<20			41	37	42	26
Residential	319205	45	41	<20	<20	<20			43	39	45	27
Residential	319206	45	49	<20	<20	<20			55	51	56	44
Residential	319210	45	<20	<20	<20	<20			38	34	39	21
Residential	319212	45	<20	<20	<20	<20			37	34	39	22
Residential	319214	45	45	<20	<20	<20			43	39	44	25
Residential	319215	45	35	<20	<20	<20			50	46	51	45
Residential	319219	45	35	<20	<20	<20			50	46	51	35
Residential	319220	45	34	<20	<20	<20			50	46	51	33
Residential	319224	45	34	<20	<20	<20			43	39	44	37
Residential	319225	45	36	<20	<20	<20			43	40	45	39
Residential	319226	45	38	<20	<20	<20			71	68	73	64
Residential	319228	45	42	<20	<20	<20			64	61	65	57
Residential	319230	45	43	<20	<20	<20			42	39	44	39
Residential	319235	45	40	<20	<20	<20			50	46	51	43
Residential	319239	45	32	<20	<20	<20			33	30	35	32
Residential	319240	45	40	<20	<20	<20			43	39	44	41
Residential	319246	45	38	<20	<20	<20			46	42	47	<20
Residential	319247	45	41	<20	<20	<20			54	50	55	46
Residential	319248	45	34	<20	<20	<20			35	31	36	32
Residential	319249	45	32	<20	<20	<20			34	30	35	31
Residential	319254	45	37	<20	<20	<20			36	32	37	33
Residential	319261	45	37	<20	<20	<20			44	40	45	28
Residential	319263	45	46	<20	<20	<20			48	44	49	39
Residential	319267	45	37	<20	<20	<20			45	41	46	28
Residential	319269	45	35	<20	<20	<20			42	39	44	29
Residential	319275	45	43	<20	<20	<20			43	39	44	<20
Residential	319276	45	39	<20	<20	<20			40	36	41	<20
Residential	319279	45	50	<20	<20	<20			55	52	57	48
Residential	319280	45	41	<20	<20	<20			41	37	43	39
Residential	319283	45	42	<20	<20	<20			41	37	42	<20
Residential	319285	45	34	<20	<20	<20			49	45	50	34
Residential	319287	45	35	<20	<20	<20			48	44	49	33
Residential	319289	45	34	<20	<20	<20			44	41	46	31
Residential	319292	45	46	<20	<20	<20			51	47	52	40
Residential	319293	45	49	<20	<20	<20			57	53	58	45

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	319294	45	52	<20	<20	<20			70	66	72	49
Residential	319297	45	63	<20	<20	<20			80	76	81	36
Residential	319298	45	53	<20	<20	<20			52	48	53	51
Residential	319299	45	55	<20	<20	<20			61	57	62	43
Residential	319300	45	53	<20	<20	<20			61	57	63	37
Residential	319302	45	64	<20	<20	<20			65	62	67	62
Residential	319303	45	44	<20	<20	<20			42	38	43	24
Residential	319308	45	35	<20	<20	<20			38	34	39	32
Residential	319309	45	34	<20	<20	<20			36	32	37	31
Residential	319312	45	38	<20	<20	<20			40	37	42	39
Residential	319315	45	39	<20	<20	<20			54	50	56	33
Residential	319317	45	30	<20	<20	<20			40	37	42	21
Residential	319318	45	31	<20	<20	<20			41	37	42	21
Residential	319320	45	38	<20	<20	<20			39	36	41	35
Residential	319323	45	37	<20	<20	<20			37	34	39	30
Residential	319327	45	42	<20	<20	<20			53	49	54	36
Residential	319328	45	42	<20	<20	<20			52	48	53	36
Residential	319331	45	51	<20	<20	<20			52	48	53	30
Residential	319332	45	37	<20	<20	<20			40	36	41	34
Residential	319336	45	41	<20	<20	<20			41	37	42	29
Residential	319341	45	49	<20	<20	<20			49	45	50	32
Residential	319344	45	40	<20	<20	<20			40	36	41	25
Residential	319349	45	53	<20	<20	<20			54	50	55	23
Residential	319352	45	35	<20	<20	<20			38	34	39	33
Residential	319356	45	44	<20	<20	<20			48	44	49	41
Residential	319357	45	43	<20	<20	<20			47	43	48	37
Residential	319362	45	39	<20	<20	<20			62	58	63	58
Residential	319363	45	45	<20	<20	<20			61	57	62	59
Residential	319364	45	45	<20	<20	<20			59	55	60	56
Residential	319365	45	44	<20	<20	<20			51	47	52	48
Residential	319374	45	46	<20	<20	<20			48	44	49	45
Residential	319388	45	<20	<20	<20	<20			38	35	40	22
Residential	319396	45	34	<20	<20	<20			38	34	39	<20
Residential	319400	45	33	<20	<20	<20			39	35	40	<20
Residential	319409	45	36	<20	<20	<20			37	33	38	<20
Residential	319420	45	40	<20	<20	30			38	35	39	<20
Residential	319452	45	32	<20	<20	<20			61	57	62	<20
Residential	319464	45	42	<20	<20	<20			43	39	44	27
Residential	319465	45	39	<20	<20	<20			58	54	59	32
Residential	319481	45	58	<20	<20	<20			66	62	67	62
Residential	319483	45	46	<20	<20	<20			55	51	56	52
Residential	319485	45	62	<20	<20	<20			68	64	70	52
Residential	319490	45	43	<20	<20	<20			43	39	44	37
Residential	319491	45	38	<20	<20	<20			37	34	39	36

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	319493	45	46	<20	<20	<20			51	47	52	38
Residential	319495	45	40	<20	<20	<20			39	35	40	24
Residential	319500	45	42	<20	<20	<20			42	38	43	41
Residential	319505	45	45	<20	<20	<20			44	40	45	42
Residential	319570	45	35	<20	<20	<20			33	30	34	31
Residential	319605	45	57	<20	<20	<20			62	58	63	26
Residential	319629	45	38	<20	<20	<20			40	36	41	38
Residential	319630	45	35	<20	<20	<20			40	36	41	38
Residential	319640	45	47	<20	<20	<20			48	44	49	29
Residential	319652	45	66	<20	<20	<20			64	60	65	60
Residential	319653	45	36	<20	<20	<20			44	40	46	40
Residential	319659	45	32	<20	<20	<20			33	30	35	32
Residential	319682	45	32	<20	<20	<20			37	33	38	33
Residential	319693	45	35	<20	<20	<20			36	32	37	33
Residential	319704	45	35	<20	<20	<20			38	34	39	37
Residential	319707	45	39	<20	<20	<20			43	39	44	41
Residential	319718	45	45	<20	<20	<20			56	52	58	54
Residential	319732	45	44	<20	<20	<20			42	38	43	23
Residential	319733	45	52	<20	<20	<20			63	59	64	26
Residential	319734	45	59	<20	<20	<20			59	55	60	57
Residential	319736	45	41	<20	<20	<20			52	48	53	39
Residential	319737	45	38	<20	<20	<20			40	37	42	38
Residential	319748	45	37	<20	<20	<20			36	33	38	24
Residential	319752	45	35	<20	<20	<20			36	33	38	36
Residential	319767	45	43	<20	<20	<20			42	38	43	40
Residential	319803	45	39	<20	<20	<20			49	45	50	43
Residential	319816	45	35	<20	<20	<20			37	33	38	30
Residential	319848	45	65	<20	<20	<20			72	69	74	32
Residential	320062	45	39	<20	<20	<20			50	46	51	47
Residential	320180	45	48	<20	<20	<20			53	49	55	41
Residential	320263	45	24	<20	<20	<20			40	37	42	21
Residential	320346	45	33	<20	<20	<20			37	33	38	36
Residential	320350	45	41	<20	<20	<20			42	39	44	30
Residential	320355	45	34	<20	<20	<20			37	33	38	35
Residential	320356	45	34	<20	<20	<20			39	35	40	37
Residential	320357	45	33	<20	<20	<20			39	35	40	38
Residential	320358	45	42	<20	<20	<20			58	54	59	37
Residential	320359	45	35	<20	<20	<20			42	38	43	40
Residential	320360	45	35	<20	<20	<20			46	42	47	45
Residential	320363	45	47	<20	<20	<20			52	48	53	44
Residential	320364	45	40	<20	<20	<20			48	44	49	36
Residential	320365	45	49	<20	<20	<20			49	45	50	30
Residential	320366	45	43	<20	<20	<20			40	37	41	38
Residential	320376	45	55	<20	<20	<20			57	53	58	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320432	45	37	<20	<20	<20			44	40	46	<20
Residential	320433	45	38	<20	<20	<20			45	41	47	<20
Residential	320434	45	37	<20	<20	<20			44	40	46	<20
Residential	320435	45	41	<20	<20	<20			47	42	48	<20
Residential	320436	45	40	<20	<20	<20			42	38	43	<20
Residential	320437	45	45	<20	<20	<20			46	42	47	<20
Residential	320439	45	43	<20	<20	<20			45	41	47	<20
Residential	320440	45	27	<20	<20	<20			34	30	35	<20
Residential	320441	45	41	<20	<20	<20			41	38	43	<20
Residential	320442	45	46	<20	<20	<20			47	43	49	<20
Residential	320444	45	45	<20	<20	<20			50	46	51	<20
Residential	320448	45	44	<20	<20	<20			43	39	45	<20
Residential	320449	45	48	<20	<20	<20			51	47	52	<20
Residential	320450	45	37	<20	<20	<20			37	33	39	<20
Residential	320451	45	33	<20	<20	<20			41	37	42	<20
Residential	320453	45	34	<20	<20	<20			41	37	42	<20
Residential	320454	45	33	<20	<20	<20			42	38	44	<20
Residential	320456	45	44	<20	<20	<20			45	41	47	<20
Residential	320457	45	43	<20	<20	<20			44	40	45	<20
Residential	320458	45	32	<20	<20	<20			39	35	40	<20
Residential	320459	45	43	<20	<20	<20			46	42	47	<20
Residential	320460	45	40	<20	<20	<20			46	42	48	<20
Residential	320461	45	46	<20	<20	<20			47	43	49	<20
Residential	320462	45	36	<20	<20	<20			45	41	46	<20
Residential	320463	45	34	<20	<20	<20			43	39	44	<20
Residential	320465	45	44	<20	<20	<20			45	41	46	<20
Residential	320467	45	33	<20	<20	<20			33	30	34	<20
Residential	320468	45	35	<20	<20	<20			43	39	45	<20
Residential	320469	45	44	<20	<20	<20			46	42	47	<20
Residential	320470	45	38	<20	<20	<20			45	41	47	<20
Residential	320471	45	44	<20	<20	<20			47	43	48	<20
Residential	320472	45	49	<20	<20	<20			51	47	53	<20
Residential	320473	45	42	<20	<20	<20			43	39	44	<20
Residential	320474	45	43	<20	<20	<20			47	43	49	<20
Residential	320475	45	46	<20	<20	<20			48	44	50	<20
Residential	320476	45	43	<20	<20	<20			44	40	45	<20
Residential	320477	45	47	<20	<20	<20			49	45	50	<20
Residential	320478	45	44	<20	<20	<20			45	41	47	<20
Residential	320479	45	43	<20	<20	<20			44	40	45	<20
Residential	320484	45	45	<20	<20	<20			49	45	50	<20
Residential	320492	45	34	<20	<20	<20			41	37	42	<20
Residential	320496	45	43	<20	<20	<20			48	44	49	<20
Residential	320501	45	36	<20	<20	<20			43	39	45	<20
Residential	320503	45	29	<20	<20	<20			38	34	39	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320507	45	38	<20	<20	<20			45	41	46	<20
Residential	320524	45	45	<20	<20	<20			46	42	47	<20
Residential	320550	45	47	<20	<20	<20			51	47	52	<20
Residential	320551	45	35	<20	<20	<20			43	39	44	<20
Residential	320555	45	39	<20	<20	<20			44	40	46	<20
Residential	320557	45	57	<20	<20	<20			62	58	63	<20
Residential	320562	45	42	<20	<20	<20			43	39	44	<20
Residential	320567	45	32	<20	<20	<20			35	31	36	<20
Residential	320568	45	42	<20	<20	<20			43	39	44	<20
Residential	320569	45	28	<20	<20	<20			33	29	34	<20
Residential	320570	45	42	<20	<20	<20			42	38	44	<20
Residential	320572	45	44	<20	<20	<20			46	42	47	<20
Residential	320573	45	43	<20	<20	<20			47	43	49	<20
Residential	320574	45	34	<20	<20	<20			44	40	45	<20
Residential	320575	45	33	<20	<20	<20			39	36	41	<20
Residential	320576	45	35	<20	<20	<20			43	40	45	<20
Residential	320577	45	35	<20	<20	<20			45	41	46	<20
Residential	320579	45	38	<20	<20	<20			46	42	47	<20
Residential	320580	45	41	<20	<20	<20			45	41	46	<20
Residential	320581	45	56	<20	<20	<20			61	57	62	<20
Residential	320582	45	37	<20	<20	<20			44	40	45	<20
Residential	320583	45	35	<20	<20	<20			43	39	44	<20
Residential	320584	45	48	<20	<20	<20			50	46	51	<20
Residential	320585	45	34	<20	<20	<20			43	39	44	<20
Residential	320586	45	32	<20	<20	<20			38	34	39	<20
Residential	320587	45	43	<20	<20	<20			43	39	44	<20
Residential	320588	45	44	<20	<20	<20			44	40	46	<20
Residential	320589	45	45	<20	<20	<20			47	43	48	<20
Residential	320590	45	44	<20	<20	<20			46	42	47	<20
Residential	320591	45	36	<20	<20	<20			45	41	46	<20
Residential	320592	45	45	<20	<20	<20			46	42	48	<20
Residential	320593	45	45	<20	<20	<20			47	43	48	<20
Residential	320594	45	41	<20	<20	<20			42	38	43	<20
Residential	320596	45	36	<20	<20	<20			35	32	37	<20
Residential	320597	45	44	<20	<20	<20			46	42	48	<20
Residential	320598	45	49	<20	<20	<20			51	47	53	<20
Residential	320599	45	49	<20	<20	<20			51	47	53	<20
Residential	320600	45	35	<20	<20	<20			44	40	45	<20
Residential	320601	45	45	<20	<20	<20			49	45	50	<20
Residential	320602	45	44	<20	<20	<20			48	44	50	<20
Residential	320603	45	42	<20	<20	<20			45	41	46	<20
Residential	320604	45	42	<20	<20	<20			42	38	44	<20
Residential	320605	45	40	<20	<20	<20			41	37	42	<20
Residential	320606	45	46	<20	<20	<20			48	44	49	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320607	45	28	<20	<20	<20			38	34	39	<20
Residential	320612	45	38	<20	<20	<20			40	36	41	33
Residential	320645	45	44	<20	<20	<20			49	45	50	<20
Residential	320646	45	35	<20	<20	<20			44	40	45	<20
Residential	320647	45	29	<20	<20	<20			42	38	43	<20
Residential	320658	45	31	<20	<20	<20			38	34	39	<20
Residential	320661	45	36	<20	<20	<20			43	40	45	<20
Residential	320665	45	42	<20	<20	<20			45	41	46	<20
Residential	320669	45	36	<20	<20	<20			38	34	39	34
Residential	320678	45	34	<20	<20	<20			40	36	42	36
Residential	320684	45	27	<20	<20	<20			35	32	37	35
Residential	320685	45	32	<20	<20	<20			35	31	36	33
Residential	320686	45	36	<20	<20	<20			44	40	46	31
Residential	320687	45	37	<20	<20	<20			43	39	45	38
Residential	320688	45	32	<20	<20	<20			36	33	38	35
Residential	320689	45	31	<20	<20	<20			38	35	40	35
Residential	320691	45	33	<20	<20	<20			41	37	43	35
Residential	320692	45	31	<20	<20	<20			40	37	42	35
Residential	320695	45	31	<20	<20	<20			37	33	38	35
Residential	320698	45	32	<20	<20	<20			36	33	38	34
Residential	320700	45	32	<20	<20	<20			39	36	41	34
Residential	320704	45	28	<20	<20	<20			36	32	37	35
Residential	320707	45	32	<20	<20	<20			39	35	40	36
Residential	320708	45	37	<20	<20	<20			41	38	43	39
Residential	320709	45	28	<20	<20	<20			38	34	39	33
Residential	320710	45	32	<20	<20	<20			37	33	38	36
Residential	320713	45	31	<20	<20	<20			36	32	37	34
Residential	320714	45	33	<20	<20	<20			41	37	42	35
Residential	320716	45	41	<20	<20	<20			39	35	40	<20
Residential	320718	45	34	<20	<20	<20			41	37	42	35
Residential	320719	45	32	<20	<20	<20			35	31	36	33
Residential	320720	45	27	<20	<20	<20			34	31	35	32
Residential	320721	45	30	<20	<20	<20			34	31	36	33
Residential	320722	45	31	<20	<20	<20			36	32	37	34
Residential	320724	45	37	<20	<20	<20			43	39	44	42
Residential	320728	45	31	<20	<20	<20			36	33	38	34
Residential	320733	45	29	<20	<20	<20			36	33	38	34
Residential	320734	45	32	<20	<20	<20			36	32	37	34
Residential	320739	45	32	<20	<20	<20			38	34	39	36
Residential	320740	45	39	<20	<20	<20			47	43	48	46
Residential	320742	45	31	<20	<20	<20			35	31	36	33
Residential	320743	45	33	<20	<20	<20			41	37	43	35
Residential	320744	45	32	<20	<20	<20			37	33	39	36
Residential	320753	45	31	<20	<20	<20			35	31	36	33

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320754	45	32	<20	<20	<20			39	35	40	33
Residential	320769	45	32	<20	<20	<20			39	35	40	33
Residential	320841	45	37	<20	<20	<20			36	32	37	24
Residential	320844	45	44	<20	<20	<20			44	40	45	26
Residential	320845	45	37	<20	<20	<20			36	32	37	24
Residential	320846	45	43	<20	<20	<20			43	39	44	26
Residential	320850	45	44	<20	<20	<20			41	38	43	28
Residential	320851	45	43	<20	<20	<20			41	37	42	28
Residential	320854	45	39	<20	<20	<20			36	32	37	28
Residential	320855	45	39	<20	<20	<20			36	33	37	30
Residential	320856	45	45	<20	<20	<20			51	47	52	27
Residential	320857	45	48	<20	<20	<20			51	47	52	25
Residential	320859	45	52	<20	<20	<20			59	55	60	25
Residential	320860	45	55	<20	<20	<20			61	57	62	26
Residential	320863	45	40	<20	<20	<20			42	38	43	25
Residential	320864	45	39	<20	<20	<20			36	32	37	29
Residential	320867	45	44	<20	<20	<20			45	41	46	25
Residential	320870	45	45	<20	<20	<20			44	40	46	25
Residential	320871	45	44	<20	<20	<20			44	40	45	26
Residential	320872	45	38	<20	<20	<20			39	35	40	23
Residential	320873	45	45	<20	<20	<20			44	40	45	26
Residential	320874	45	44	<20	<20	<20			43	40	45	27
Residential	320877	45	36	<20	<20	<20			34	30	35	22
Residential	320878	45	36	<20	<20	<20			35	31	36	23
Residential	320885	45	38	<20	<20	<20			38	35	40	25
Residential	320886	45	41	<20	<20	<20			39	35	41	30
Residential	320889	45	59	<20	<20	<20			64	60	65	28
Residential	320890	45	56	<20	<20	<20			61	57	63	25
Residential	320891	45	37	<20	<20	<20			36	33	38	24
Residential	320892	45	36	<20	<20	<20			37	33	38	24
Residential	320895	45	48	<20	<20	<20			51	47	52	25
Residential	320896	45	44	<20	<20	<20			43	39	45	28
Residential	320897	45	43	<20	<20	<20			43	39	44	28
Residential	320899	45	43	<20	<20	<20			42	38	44	27
Residential	320900	45	37	<20	<20	<20			35	32	37	24
Residential	320934	45	41	<20	<20	<20			38	34	39	27
Residential	320937	45	51	<20	<20	<20			51	47	53	28
Residential	320939	45	46	<20	<20	<20			50	46	51	25
Residential	320940	45	39	<20	<20	<20			37	33	38	23
Residential	320941	45	37	<20	<20	<20			36	32	38	24
Residential	320942	45	39	<20	<20	<20			37	33	38	24
Residential	320943	45	40	<20	<20	<20			38	34	39	23
Residential	320946	45	46	<20	<20	<20			50	46	52	25
Residential	320947	45	43	<20	<20	<20			42	38	43	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	320951	45	55	<20	<20	<20			62	58	63	26
Residential	320954	45	42	<20	<20	<20			41	37	42	26
Residential	320955	45	42	<20	<20	<20			39	36	41	27
Residential	320957	45	39	<20	<20	<20			37	34	39	25
Residential	320977	45	56	<20	<20	<20			62	58	63	27
Residential	320980	45	41	<20	<20	<20			44	40	45	26
Residential	320985	45	44	<20	<20	<20			46	42	47	27
Residential	320986	45	44	<20	<20	<20			44	40	45	27
Residential	320987	45	39	<20	<20	<20			36	33	38	26
Residential	320988	45	38	<20	<20	<20			35	31	36	28
Residential	320990	45	36	<20	<20	<20			54	50	56	47
Residential	320991	45	37	<20	<20	<20			34	30	35	24
Residential	320992	45	37	<20	<20	<20			34	31	36	24
Residential	320994	45	37	<20	<20	<20			34	31	36	24
Residential	320996	45	38	<20	<20	<20			36	33	38	23
Residential	320997	45	43	<20	<20	<20			42	38	44	26
Residential	321001	45	44	<20	<20	<20			46	42	47	25
Residential	321016	45	39	<20	<20	<20			49	45	50	45
Residential	321017	45	44	<20	<20	<20			43	39	44	25
Residential	321019	45	49	<20	<20	<20			51	47	52	27
Residential	321020	45	55	<20	<20	<20			56	52	57	29
Residential	321021	45	43	<20	<20	<20			43	39	44	25
Residential	321024	45	43	<20	<20	<20			41	37	42	27
Residential	321025	45	42	<20	<20	<20			41	37	42	26
Residential	321031	45	44	<20	<20	<20			45	41	46	25
Residential	321032	45	51	<20	<20	<20			57	53	58	25
Residential	321033	45	54	<20	<20	<20			59	55	60	26
Residential	321034	45	50	<20	<20	<20			56	52	57	26
Residential	321061	45	40	<20	<20	<20			37	33	38	29
Residential	321062	45	39	<20	<20	<20			36	32	37	27
Residential	321064	45	39	<20	<20	<20			37	34	39	25
Residential	321065	45	39	<20	<20	<20			37	33	38	28
Residential	321066	45	37	<20	<20	<20			34	31	36	24
Residential	321067	45	39	<20	<20	<20			38	34	39	24
Residential	321068	45	37	<20	<20	<20			38	35	40	24
Residential	321069	45	37	<20	<20	<20			37	33	38	23
Residential	321073	45	45	<20	<20	<20			45	41	46	24
Residential	321075	45	46	<20	<20	<20			48	44	50	28
Residential	321077	45	38	<20	<20	<20			35	31	36	26
Residential	321098	45	42	<20	<20	<20			43	39	45	28
Residential	321099	45	42	<20	<20	<20			43	39	44	27
Residential	321100	45	42	<20	<20	<20			43	39	44	27
Residential	321104	45	46	<20	<20	<20			45	41	46	26
Residential	321106	45	36	<20	<20	<20			33	30	35	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321111	45	42	<20	<20	<20			41	38	43	25
Residential	321118	45	47	<20	<20	<20			46	42	47	26
Residential	321123	45	36	<20	<20	<20			35	31	36	23
Residential	321124	45	48	<20	<20	<20			50	46	52	27
Residential	321135	45	43	<20	<20	<20			43	40	45	24
Residential	321141	45	49	<20	<20	<20			52	48	53	29
Residential	321142	45	36	<20	<20	<20			35	31	36	22
Residential	321144	45	38	<20	<20	<20			38	35	40	24
Residential	321147	45	48	<20	<20	<20			53	49	55	25
Residential	321155	45	38	<20	<20	<20			35	31	36	30
Residential	321182	45	38	<20	<20	<20			37	34	39	23
Residential	321184	45	66	<20	<20	<20			68	64	69	20
Residential	321185	45	36	<20	<20	<20			35	32	37	22
Residential	321186	45	37	<20	<20	<20			34	30	35	23
Residential	321192	45	46	<20	<20	<20			45	41	46	27
Residential	321197	45	40	<20	<20	<20			48	44	49	37
Residential	321198	45	45	<20	<20	<20			51	47	52	29
Residential	321199	45	40	<20	<20	<20			38	34	39	23
Residential	321200	45	40	<20	<20	<20			38	34	40	24
Residential	321205	45	36	<20	<20	<20			35	31	37	25
Residential	321206	45	37	<20	<20	<20			34	31	36	27
Residential	321207	45	38	<20	<20	<20			35	31	37	26
Residential	321208	45	37	<20	<20	<20			34	31	36	25
Residential	321209	45	37	<20	<20	<20			35	31	36	26
Residential	321210	45	42	<20	<20	<20			43	39	45	24
Residential	321214	45	37	<20	<20	<20			36	33	38	23
Residential	321231	45	32	<20	<20	<20			34	30	35	25
Residential	321233	45	42	<20	<20	<20			41	37	43	26
Residential	321237	45	42	<20	<20	<20			40	36	41	28
Residential	321241	45	36	<20	<20	<20			34	30	35	24
Residential	321246	45	47	<20	<20	<20			51	47	52	27
Residential	321247	45	38	<20	<20	<20			37	33	38	27
Residential	321248	45	37	<20	<20	<20			36	33	38	23
Residential	321249	45	49	<20	<20	<20			54	50	55	25
Residential	321250	45	44	<20	<20	<20			43	39	45	28
Residential	321252	45	44	<20	<20	<20			43	39	44	25
Residential	321254	45	44	<20	<20	<20			48	44	50	25
Residential	321256	45	43	<20	<20	<20			46	42	47	26
Residential	321258	45	46	<20	<20	<20			46	42	47	26
Residential	321277	45	38	<20	<20	<20			38	34	39	23
Residential	321281	45	39	<20	<20	<20			43	39	45	24
Residential	321282	45	40	<20	<20	<20			40	36	42	25
Residential	321283	45	39	<20	<20	<20			40	36	41	23
Residential	321284	45	45	<20	<20	<20			50	46	51	28

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321286	45	43	<20	<20	<20			48	44	49	27
Residential	321292	45	45	<20	<20	<20			47	43	48	26
Residential	321294	45	39	<20	<20	<20			41	37	42	30
Residential	321296	45	50	<20	<20	<20			53	49	54	26
Residential	321297	45	49	<20	<20	<20			51	47	52	25
Residential	321299	45	38	<20	<20	<20			36	32	38	22
Residential	321300	45	41	<20	<20	<20			38	34	40	27
Residential	321301	45	38	<20	<20	<20			36	32	37	29
Residential	321303	45	37	<20	<20	<20			34	31	36	27
Residential	321305	45	40	<20	<20	<20			40	36	41	24
Residential	321309	45	35	<20	<20	<20			38	34	39	23
Residential	321332	45	52	<20	<20	<20			60	56	61	26
Residential	321339	45	37	<20	<20	<20			35	31	36	27
Residential	321343	45	35	<20	<20	<20			35	31	37	28
Residential	321344	45	38	<20	<20	<20			37	33	38	23
Residential	321346	45	35	<20	<20	<20			33	29	34	22
Residential	321347	45	36	<20	<20	<20			34	30	35	23
Residential	321352	45	41	<20	<20	<20			38	34	39	28
Residential	321353	45	40	<20	<20	<20			38	34	39	28
Residential	321354	45	43	<20	<20	<20			42	38	44	27
Residential	321356	45	40	<20	<20	<20			38	34	39	29
Residential	321357	45	40	<20	<20	<20			39	35	40	29
Residential	321358	45	39	<20	<20	<20			44	40	45	24
Residential	321370	45	45	<20	<20	<20			48	44	49	25
Residential	321371	45	42	<20	<20	<20			42	38	43	27
Residential	321372	45	45	<20	<20	<20			45	41	47	25
Residential	321373	45	45	<20	<20	<20			44	40	45	26
Residential	321375	45	38	<20	<20	<20			36	32	37	25
Residential	321376	45	38	<20	<20	<20			35	31	36	28
Residential	321379	45	39	<20	<20	<20			37	33	39	26
Residential	321381	45	56	<20	<20	<20			59	55	61	38
Residential	321383	45	44	<20	<20	<20			43	39	45	25
Residential	321385	45	44	<20	<20	<20			44	40	46	25
Residential	321391	45	36	<20	<20	<20			34	30	35	25
Residential	321394	45	44	<20	<20	<20			44	40	45	26
Residential	321417	45	37	<20	<20	<20			36	32	37	23
Residential	321422	45	37	<20	<20	<20			35	31	36	27
Residential	321429	45	53	<20	<20	<20			55	51	56	26
Residential	321431	45	37	<20	<20	<20			35	31	37	22
Residential	321433	45	37	<20	<20	<20			35	31	36	23
Residential	321434	45	37	<20	<20	<20			36	32	37	24
Residential	321435	45	35	<20	<20	<20			37	34	39	26
Residential	321436	45	43	<20	<20	<20			42	38	43	26
Residential	321437	45	36	<20	<20	<20			35	31	36	29

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321438	45	40	<20	<20	<20			38	34	39	28
Residential	321439	45	40	<20	<20	<20			37	33	39	27
Residential	321440	45	45	<20	<20	<20			44	40	46	26
Residential	321448	45	43	<20	<20	<20			44	40	45	25
Residential	321451	45	42	<20	<20	<20			42	38	43	25
Residential	321452	45	44	<20	<20	<20			43	39	45	24
Residential	321457	45	58	<20	<20	<20			69	66	71	28
Residential	321458	45	58	<20	<20	<20			69	65	71	28
Residential	321485	45	38	<20	<20	<20			36	32	37	27
Residential	321486	45	40	<20	<20	<20			41	37	42	27
Residential	321489	45	45	<20	<20	<20			47	43	48	26
Residential	321490	45	43	<20	<20	<20			42	38	44	24
Residential	321491	45	43	<20	<20	<20			42	38	44	23
Residential	321492	45	42	<20	<20	<20			44	40	45	24
Residential	321494	45	35	<20	<20	<20			33	29	34	23
Residential	321496	45	37	<20	<20	<20			34	31	36	27
Residential	321502	45	35	<20	<20	<20			33	29	34	25
Residential	321504	45	47	<20	<20	<20			50	46	51	28
Residential	321533	45	39	<20	<20	<20			39	35	40	24
Residential	321535	45	36	<20	<20	<20			34	30	35	26
Residential	321539	45	55	<20	<20	<20			56	52	57	30
Residential	321540	45	44	<20	<20	<20			45	41	47	27
Residential	321541	45	42	<20	<20	<20			42	39	44	25
Residential	321543	45	38	<20	<20	<20			35	31	36	29
Residential	321544	45	40	<20	<20	<20			40	36	41	24
Residential	321546	45	44	<20	<20	<20			47	43	48	25
Residential	321548	45	49	<20	<20	<20			53	49	54	26
Residential	321549	45	50	<20	<20	<20			56	52	57	27
Residential	321551	45	40	<20	<20	<20			38	34	39	28
Residential	321555	45	49	<20	<20	<20			53	49	54	26
Residential	321561	45	36	<20	<20	<20			34	30	35	25
Residential	321562	45	36	<20	<20	<20			34	31	36	26
Residential	321563	45	43	<20	<20	<20			44	40	45	26
Residential	321564	45	46	<20	<20	<20			45	41	46	27
Residential	321566	45	37	<20	<20	<20			34	31	36	22
Residential	321567	45	40	<20	<20	<20			39	35	40	24
Residential	321568	45	44	<20	<20	<20			44	40	45	24
Residential	321569	45	45	<20	<20	<20			48	44	49	25
Residential	321578	45	37	<20	<20	<20			38	34	40	23
Residential	321581	45	43	<20	<20	<20			42	38	44	24
Residential	321582	45	32	<20	<20	<20			33	29	34	24
Residential	321583	45	37	<20	<20	<20			35	31	37	24
Residential	321584	45	42	<20	<20	<20			40	36	41	27
Residential	321585	45	52	<20	<20	<20			55	51	56	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321586	45	39	<20	<20	<20			37	33	38	28
Residential	321587	45	37	<20	<20	<20			37	34	39	24
Residential	321589	45	36	<20	<20	<20			34	30	35	24
Residential	321590	45	36	<20	<20	<20			35	31	36	23
Residential	321605	45	46	<20	<20	<20			50	46	51	25
Residential	321612	45	38	<20	<20	<20			37	33	38	25
Residential	321613	45	39	<20	<20	<20			37	33	38	23
Residential	321618	45	58	<20	<20	<20			64	60	65	28
Residential	321631	45	32	<20	<20	<20			37	34	39	35
Residential	321632	45	33	<20	<20	<20			37	34	39	35
Residential	321633	45	31	<20	<20	<20			34	31	36	32
Residential	321634	45	30	<20	<20	<20			37	34	39	33
Residential	321644	45	33	<20	<20	<20			38	35	40	35
Residential	321645	45	37	<20	<20	<20			45	41	46	43
Residential	321646	45	31	<20	<20	<20			34	30	35	34
Residential	321648	45	31	<20	<20	<20			34	31	36	33
Residential	321650	45	32	<20	<20	<20			35	31	36	33
Residential	321655	45	27	<20	<20	<20			33	29	34	32
Residential	321656	45	32	<20	<20	<20			35	32	37	33
Residential	321657	45	30	<20	<20	<20			41	37	42	33
Residential	321658	45	33	<20	<20	<20			36	33	37	34
Residential	321659	45	34	<20	<20	<20			37	33	38	35
Residential	321660	45	39	<20	<20	<20			40	36	42	28
Residential	321663	45	28	<20	<20	<20			34	31	36	33
Residential	321665	45	31	<20	<20	<20			37	34	39	37
Residential	321666	45	31	<20	<20	<20			34	30	35	32
Residential	321676	45	32	<20	<20	<20			40	36	41	37
Residential	321677	45	32	<20	<20	<20			39	35	40	34
Residential	321678	45	33	<20	<20	<20			39	36	41	34
Residential	321679	45	33	<20	<20	<20			39	36	41	35
Residential	321682	45	32	<20	<20	<20			37	33	38	36
Residential	321687	45	40	<20	<20	<20			46	42	47	43
Residential	321688	45	39	<20	<20	<20			47	43	48	46
Residential	321689	45	37	<20	<20	<20			45	41	46	28
Residential	321690	45	32	<20	<20	<20			35	31	36	33
Residential	321691	45	37	<20	<20	<20			41	37	43	28
Residential	321694	45	32	<20	<20	<20			37	34	39	35
Residential	321695	45	31	<20	<20	<20			37	34	39	35
Residential	321696	45	33	<20	<20	<20			36	33	38	35
Residential	321697	45	32	<20	<20	<20			37	33	38	35
Residential	321698	45	28	<20	<20	<20			37	34	39	35
Residential	321699	45	32	<20	<20	<20			35	32	37	34
Residential	321701	45	35	<20	<20	<20			43	39	44	36
Residential	321702	45	31	<20	<20	<20			36	33	38	35

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321706	45	34	<20	<20	<20			42	38	43	35
Residential	321708	45	42	<20	<20	<20			40	37	42	<20
Residential	321709	45	30	<20	<20	<20			37	33	38	34
Residential	321715	45	31	<20	<20	<20			37	33	38	35
Residential	321716	45	30	<20	<20	<20			37	33	38	35
Residential	321717	45	32	<20	<20	<20			41	37	42	35
Residential	321718	45	32	<20	<20	<20			37	33	39	36
Residential	321723	45	31	<20	<20	<20			34	31	35	33
Residential	321724	45	32	<20	<20	<20			34	31	36	33
Residential	321725	45	29	<20	<20	<20			34	30	35	32
Residential	321726	45	34	<20	<20	<20			40	36	41	36
Residential	321727	45	33	<20	<20	<20			41	37	42	35
Residential	321733	45	34	<20	<20	<20			41	37	43	37
Residential	321735	45	30	<20	<20	<20			36	32	37	34
Residential	321737	45	34	<20	<20	<20			39	35	40	37
Residential	321740	45	36	<20	<20	<20			44	40	45	37
Residential	321742	45	28	<20	<20	<20			35	32	37	33
Residential	321743	45	37	<20	<20	<20			43	39	44	29
Residential	321747	45	34	<20	<20	<20			40	36	41	35
Residential	321748	45	33	<20	<20	<20			41	37	42	37
Residential	321751	45	30	<20	<20	<20			35	31	36	34
Residential	321752	45	33	<20	<20	<20			38	35	40	35
Residential	321753	45	31	<20	<20	<20			34	30	35	33
Residential	321755	45	39	<20	<20	<20			41	37	42	29
Residential	321756	45	32	<20	<20	<20			37	33	38	35
Residential	321758	45	32	<20	<20	<20			39	35	40	34
Residential	321759	45	33	<20	<20	<20			41	37	42	34
Residential	321760	45	35	<20	<20	<20			43	39	44	37
Residential	321762	45	30	<20	<20	<20			36	33	38	35
Residential	321770	45	38	<20	<20	<20			49	44	50	39
Residential	321789	45	39	<20	<20	<20			37	33	38	26
Residential	321813	45	40	<20	<20	<20			37	34	39	29
Residential	321814	45	35	<20	<20	<20			33	30	35	24
Residential	321819	45	38	<20	<20	<20			36	32	37	26
Residential	321821	45	50	<20	<20	<20			52	48	54	26
Residential	321822	45	41	<20	<20	<20			38	35	40	26
Residential	321842	45	40	<20	<20	<20			43	39	45	25
Residential	321890	45	40	<20	<20	<20			37	33	38	29
Residential	321903	45	39	<20	<20	<20			37	33	38	27
Residential	321904	45	39	<20	<20	<20			36	32	38	29
Residential	321907	45	47	<20	<20	<20			48	44	49	28
Residential	321908	45	42	<20	<20	<20			41	38	43	25
Residential	321909	45	48	<20	<20	<20			53	49	54	27
Residential	321910	45	49	<20	<20	<20			50	46	51	32

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	321911	45	38	<20	<20	<20			36	32	37	23
Residential	321915	45	37	<20	<20	<20			34	30	36	26
Residential	321920	45	51	<20	<20	<20			58	54	59	27
Residential	321935	45	36	<20	<20	<20			34	31	36	22
Residential	321936	45	37	<20	<20	<20			36	32	37	24
Residential	321944	45	42	<20	<20	<20			41	37	42	27
Residential	321947	45	42	<20	<20	<20			40	36	42	27
Residential	321955	45	38	<20	<20	<20			35	31	36	24
Residential	321957	45	46	<20	<20	<20			46	42	48	27
Residential	321961	45	42	<20	<20	<20			42	38	43	27
Residential	321963	45	38	<20	<20	<20			37	33	38	24
Residential	321964	45	37	<20	<20	<20			36	32	37	23
Residential	321965	45	40	<20	<20	<20			40	36	41	24
Residential	321968	45	39	<20	<20	<20			40	36	41	29
Residential	321970	45	39	<20	<20	<20			37	33	38	25
Residential	321971	45	39	<20	<20	<20			36	32	37	27
Residential	321973	45	35	<20	<20	<20			42	39	44	36
Residential	321974	45	52	<20	<20	<20			57	53	58	25
Residential	321975	45	57	<20	<20	<20			68	64	69	26
Residential	321976	45	37	<20	<20	<20			34	31	36	25
Residential	321977	45	46	<20	<20	<20			48	44	49	27
Residential	321978	45	41	<20	<20	<20			43	39	44	27
Residential	321979	45	38	<20	<20	<20			38	34	39	23
Residential	321980	45	38	<20	<20	<20			35	32	37	28
Residential	321982	45	54	<20	<20	<20			54	50	56	28
Residential	321987	45	40	<20	<20	<20			41	37	43	27
Residential	321996	45	41	<20	<20	<20			38	34	40	27
Residential	321999	45	44	<20	<20	<20			43	39	44	27
Residential	322005	45	43	<20	<20	<20			45	41	47	29
Residential	322011	45	46	<20	<20	<20			47	43	48	25
Residential	322013	45	46	<20	<20	<20			47	43	48	25
Residential	322021	45	39	<20	<20	<20			37	33	38	28
Residential	322029	45	42	<20	<20	<20			50	46	51	45
Residential	322031	45	39	<20	<20	<20			51	47	52	47
Residential	322032	45	43	<20	<20	<20			42	38	43	23
Residential	322033	45	44	<20	<20	<20			44	41	46	24
Residential	322034	45	45	<20	<20	<20			51	47	52	28
Residential	322036	45	49	<20	<20	<20			53	49	54	25
Residential	322037	45	49	<20	<20	<20			56	52	58	25
Residential	322038	45	41	<20	<20	<20			39	35	40	26
Residential	322039	45	38	<20	<20	<20			35	31	36	29
Residential	322040	45	41	<20	<20	<20			39	35	41	25
Residential	322041	45	46	<20	<20	<20			51	47	53	28
Residential	322042	45	46	<20	<20	<20			51	47	52	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322043	45	46	<20	<20	<20			49	45	50	25
Residential	322044	45	53	<20	<20	<20			57	53	58	28
Residential	322046	45	46	<20	<20	<20			49	45	50	26
Residential	322047	45	57	<20	<20	<20			63	59	64	24
Residential	322048	45	49	<20	<20	<20			56	52	57	25
Residential	322049	45	38	<20	<20	<20			38	34	39	24
Residential	322050	45	48	<20	<20	<20			50	46	51	27
Residential	322051	45	37	<20	<20	<20			34	31	36	26
Residential	322052	45	46	<20	<20	<20			46	42	48	25
Residential	322053	45	46	<20	<20	<20			46	42	47	29
Residential	322072	45	43	<20	<20	<20			41	37	42	25
Residential	322073	45	44	<20	<20	<20			44	40	45	27
Residential	322074	45	35	<20	<20	<20			33	29	34	22
Residential	322076	45	44	<20	<20	<20			45	41	47	24
Residential	322077	45	47	<20	<20	<20			50	46	52	25
Residential	322078	45	38	<20	<20	<20			37	33	38	23
Residential	322089	45	36	<20	<20	<20			33	30	35	27
Residential	322096	45	50	<20	<20	<20			50	46	52	31
Residential	322103	45	43	<20	<20	<20			43	39	45	26
Residential	322104	45	48	<20	<20	<20			50	46	51	25
Residential	322111	45	43	<20	<20	<20			44	40	45	27
Residential	322112	45	36	<20	<20	<20			34	30	35	24
Residential	322115	45	54	<20	<20	<20			57	53	58	26
Residential	322116	45	40	<20	<20	<20			40	37	42	24
Residential	322117	45	52	<20	<20	<20			60	56	61	24
Residential	322118	45	37	<20	<20	<20			36	32	37	23
Residential	322119	45	38	<20	<20	<20			37	33	38	23
Residential	322120	45	54	<20	<20	<20			52	48	53	49
Residential	322122	45	42	<20	<20	<20			40	37	42	28
Residential	322123	45	46	<20	<20	<20			47	43	48	29
Residential	322124	45	38	<20	<20	<20			36	32	37	25
Residential	322125	45	54	<20	<20	<20			55	51	56	30
Residential	322127	45	36	<20	<20	<20			34	30	35	24
Residential	322128	45	48	<20	<20	<20			50	46	51	28
Residential	322129	45	39	<20	<20	<20			39	35	40	23
Residential	322130	45	37	<20	<20	<20			35	31	36	25
Residential	322131	45	46	<20	<20	<20			50	46	51	30
Residential	322134	45	57	<20	<20	<20			64	61	66	26
Residential	322135	45	57	<20	<20	<20			63	59	64	27
Residential	322136	45	53	<20	<20	<20			63	59	64	26
Residential	322139	45	53	<20	<20	<20			57	53	58	26
Residential	322140	45	41	<20	<20	<20			40	36	41	27
Residential	322142	45	45	<20	<20	<20			49	45	50	26
Residential	322145	45	40	<20	<20	<20			37	33	39	32

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322153	45	46	<20	<20	<20			49	45	50	24
Residential	322156	45	43	<20	<20	<20			43	39	44	26
Residential	322166	45	42	<20	<20	<20			47	43	49	25
Residential	322169	45	39	<20	<20	<20			36	33	38	27
Residential	322170	45	37	<20	<20	<20			35	31	36	29
Residential	322173	45	37	<20	<20	<20			35	31	36	22
Residential	322180	45	38	<20	<20	<20			35	31	36	26
Residential	322190	45	43	<20	<20	<20			42	38	44	25
Residential	322192	45	42	<20	<20	<20			48	44	49	27
Residential	322194	45	47	<20	<20	<20			52	47	53	29
Residential	322195	45	55	<20	<20	<20			60	56	61	57
Residential	322197	45	37	<20	<20	<20			34	30	35	26
Residential	322198	45	39	<20	<20	<20			39	35	40	24
Residential	322199	45	39	<20	<20	<20			37	33	38	25
Residential	322202	45	41	<20	<20	<20			39	35	40	29
Residential	322204	45	32	<20	<20	<20			32	29	34	22
Residential	322205	45	39	<20	<20	<20			36	32	38	27
Residential	322207	45	44	<20	<20	<20			42	38	43	29
Residential	322208	45	43	<20	<20	<20			43	40	45	27
Residential	322214	45	51	<20	<20	<20			51	47	53	28
Residential	322215	45	42	<20	<20	<20			39	36	41	27
Residential	322218	45	43	<20	<20	<20			47	43	49	25
Residential	322233	45	32	<20	<20	<20			37	33	38	36
Residential	322235	45	54	<20	<20	<20			55	51	56	30
Residential	322236	45	37	<20	<20	<20			35	31	36	23
Residential	322237	45	40	<20	<20	<20			41	37	42	26
Residential	322238	45	51	<20	<20	<20			50	46	51	26
Residential	322239	45	41	<20	<20	<20			41	37	43	26
Residential	322241	45	43	<20	<20	<20			43	39	45	28
Residential	322242	45	44	<20	<20	<20			49	44	50	27
Residential	322243	45	39	<20	<20	<20			38	34	39	23
Residential	322244	45	36	<20	<20	<20			33	29	34	25
Residential	322245	45	40	<20	<20	<20			40	36	42	23
Residential	322246	45	54	<20	<20	<20			62	58	63	25
Residential	322249	45	39	<20	<20	<20			41	38	43	23
Residential	322252	45	44	<20	<20	<20			46	42	47	32
Residential	322255	45	38	<20	<20	<20			36	32	38	23
Residential	322258	45	42	<20	<20	<20			43	39	44	25
Residential	322259	45	44	<20	<20	<20			44	40	45	24
Residential	322262	45	36	<20	<20	<20			34	31	35	27
Residential	322267	45	37	<20	<20	<20			35	31	36	28
Residential	322269	45	39	<20	<20	<20			37	33	38	26
Residential	322278	45	45	<20	<20	<20			44	40	46	27
Residential	322281	45	43	<20	<20	<20			42	38	43	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322282	45	38	<20	<20	<20			36	32	37	23
Residential	322292	45	40	<20	<20	<20			38	34	39	27
Residential	322293	45	35	<20	<20	<20			33	30	34	22
Residential	322294	45	36	<20	<20	<20			34	31	36	23
Residential	322295	45	40	<20	<20	<20			43	39	44	24
Residential	322296	45	47	<20	<20	<20			50	46	51	27
Residential	322297	45	47	<20	<20	<20			49	45	50	27
Residential	322298	45	44	<20	<20	<20			45	41	46	25
Residential	322302	45	50	<20	<20	<20			53	49	54	25
Residential	322303	45	44	<20	<20	<20			47	43	48	26
Residential	322304	45	39	<20	<20	<20			36	32	38	25
Residential	322305	45	38	<20	<20	<20			35	32	37	29
Residential	322306	45	41	<20	<20	<20			40	36	41	26
Residential	322307	45	39	<20	<20	<20			38	34	39	23
Residential	322308	45	36	<20	<20	<20			35	31	36	23
Residential	322309	45	36	<20	<20	<20			52	48	54	49
Residential	322312	45	35	<20	<20	<20			36	32	37	26
Residential	322318	45	41	<20	<20	<20			41	37	42	26
Residential	322320	45	39	<20	<20	<20			38	34	39	24
Residential	322323	45	37	<20	<20	<20			35	31	36	22
Residential	322328	45	40	<20	<20	<20			41	37	42	24
Residential	322350	45	52	<20	<20	<20			55	51	56	27
Residential	322353	45	39	<20	<20	<20			37	34	39	23
Residential	322354	45	40	<20	<20	<20			37	33	39	26
Residential	322355	45	35	<20	<20	<20			32	29	34	28
Residential	322356	45	45	<20	<20	<20			47	43	48	25
Residential	322358	45	40	<20	<20	<20			38	34	39	27
Residential	322359	45	40	<20	<20	<20			38	34	40	23
Residential	322363	45	37	<20	<20	<20			36	32	37	24
Residential	322365	45	42	<20	<20	<20			40	36	42	28
Residential	322367	45	36	<20	<20	<20			33	29	34	23
Residential	322368	45	37	<20	<20	<20			35	31	36	23
Residential	322371	45	37	<20	<20	<20			35	31	36	23
Residential	322375	45	38	<20	<20	<20			37	33	38	24
Residential	322384	45	44	<20	<20	<20			43	39	44	26
Residential	322386	45	43	<20	<20	<20			43	39	44	28
Residential	322389	45	43	<20	<20	<20			41	37	42	27
Residential	322391	45	53	<20	<20	<20			56	52	57	36
Residential	322399	45	38	<20	<20	<20			36	32	38	22
Residential	322420	45	38	<20	<20	<20			35	32	37	28
Residential	322421	45	43	<20	<20	<20			41	38	43	27
Residential	322423	45	46	<20	<20	<20			47	43	48	35
Residential	322425	45	44	<20	<20	<20			44	40	45	25
Residential	322426	45	43	<20	<20	<20			41	37	42	29

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322429	45	65	<20	<20	<20			64	60	65	29
Residential	322430	45	39	<20	<20	<20			37	33	39	25
Residential	322432	45	46	<20	<20	<20			48	43	49	32
Residential	322435	45	50	<20	<20	<20			57	53	58	27
Residential	322436	45	42	<20	<20	<20			42	38	43	23
Residential	322439	45	43	<20	<20	<20			40	37	42	29
Residential	322440	45	43	<20	<20	<20			43	39	45	27
Residential	322443	45	39	<20	<20	<20			43	39	44	23
Residential	322444	45	50	<20	<20	<20			51	46	52	28
Residential	322445	45	42	<20	<20	<20			41	38	43	27
Residential	322446	45	36	<20	<20	<20			33	29	34	22
Residential	322448	45	45	<20	<20	<20			47	43	48	26
Residential	322449	45	44	<20	<20	<20			44	41	46	26
Residential	322450	45	45	<20	<20	<20			48	44	49	27
Residential	322451	45	42	<20	<20	<20			39	35	41	25
Residential	322453	45	58	<20	<20	<20			68	65	70	26
Residential	322456	45	36	<20	<20	<20			35	31	36	22
Residential	322458	45	38	<20	<20	<20			37	33	38	23
Residential	322460	45	45	<20	<20	<20			44	40	45	28
Residential	322462	45	45	<20	<20	<20			50	45	51	25
Residential	322470	45	34	<20	<20	<20			33	29	34	24
Residential	322473	45	46	<20	<20	<20			49	45	50	31
Residential	322478	45	39	<20	<20	<20			38	34	39	23
Residential	322486	45	37	<20	<20	<20			34	30	35	28
Residential	322488	45	43	<20	<20	<20			42	38	43	26
Residential	322489	45	51	<20	<20	<20			51	47	53	29
Residential	322490	45	52	<20	<20	<20			54	50	55	27
Residential	322491	45	43	<20	<20	<20			42	38	43	24
Residential	322492	45	53	<20	<20	<20			56	52	57	27
Residential	322493	45	50	<20	<20	<20			55	51	56	27
Residential	322494	45	56	<20	<20	<20			63	59	64	26
Residential	322495	45	39	<20	<20	<20			38	34	39	23
Residential	322496	45	46	<20	<20	<20			50	46	51	26
Residential	322498	45	41	<20	<20	<20			44	40	45	37
Residential	322500	45	43	<20	<20	<20			42	38	43	26
Residential	322501	45	38	<20	<20	<20			36	32	37	27
Residential	322507	45	42	<20	<20	<20			40	36	42	27
Residential	322511	45	40	<20	<20	<20			41	37	43	24
Residential	322514	45	39	<20	<20	<20			38	34	40	24
Residential	322515	45	43	<20	<20	<20			43	39	45	26
Residential	322518	45	43	<20	<20	<20			44	40	45	24
Residential	322522	45	37	<20	<20	<20			35	31	36	23
Residential	322523	45	37	<20	<20	<20			34	31	36	22
Residential	322525	45	38	<20	<20	<20			37	33	38	23

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322526	45	38	<20	<20	<20			36	32	37	23
Residential	322528	45	45	<20	<20	<20			50	46	51	30
Residential	322529	45	39	<20	<20	<20			58	54	59	40
Residential	322530	45	41	<20	<20	<20			44	40	45	24
Residential	322531	45	39	<20	<20	<20			37	33	38	23
Residential	322532	45	38	<20	<20	<20			37	33	38	23
Residential	322533	45	37	<20	<20	<20			35	31	36	23
Residential	322534	45	37	<20	<20	<20			34	31	36	24
Residential	322542	45	43	<20	<20	<20			44	40	45	24
Residential	322543	45	51	<20	<20	<20			52	48	53	31
Residential	322546	45	35	<20	<20	<20			33	30	34	22
Residential	322547	45	34	<20	<20	<20			33	29	34	22
Residential	322549	45	36	<20	<20	<20			33	30	35	25
Residential	322550	45	45	<20	<20	<20			44	40	45	26
Residential	322551	45	36	<20	<20	<20			33	30	35	24
Residential	322552	45	66	<20	<20	<20			70	66	72	35
Residential	322553	45	40	<20	<20	<20			38	34	39	31
Residential	322554	45	36	<20	<20	<20			36	32	37	23
Residential	322557	45	38	<20	<20	<20			37	33	38	25
Residential	322558	45	39	<20	<20	<20			38	34	39	27
Residential	322559	45	40	<20	<20	<20			39	35	40	24
Residential	322561	45	44	<20	<20	<20			44	40	45	25
Residential	322562	45	47	<20	<20	<20			52	48	53	24
Residential	322566	45	42	<20	<20	<20			43	39	44	24
Residential	322567	45	50	<20	<20	<20			54	50	55	28
Residential	322568	45	40	<20	<20	<20			37	34	39	27
Residential	322569	45	38	<20	<20	<20			36	32	37	22
Residential	322574	45	40	<20	<20	<20			37	34	39	26
Residential	322575	45	43	<20	<20	<20			42	38	44	28
Residential	322577	45	46	<20	<20	<20			46	42	47	26
Residential	322578	45	46	<20	<20	<20			46	42	48	26
Residential	322579	45	37	<20	<20	<20			34	31	36	25
Residential	322581	45	42	<20	<20	<20			43	39	44	24
Residential	322582	45	38	<20	<20	<20			36	32	37	27
Residential	322583	45	43	<20	<20	<20			44	40	45	27
Residential	322584	45	49	<20	<20	<20			50	46	51	32
Residential	322589	45	44	<20	<20	<20			47	43	48	25
Residential	322590	45	41	<20	<20	<20			39	35	40	30
Residential	322592	45	38	<20	<20	<20			36	33	38	30
Residential	322593	45	38	<20	<20	<20			36	32	37	27
Residential	322595	45	35	<20	<20	<20			34	31	36	24
Residential	322597	45	38	<20	<20	<20			35	32	37	24
Residential	322598	45	40	<20	<20	<20			38	34	39	28
Residential	322599	45	40	<20	<20	<20			37	33	38	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322600	45	49	<20	<20	<20			56	52	57	26
Residential	322602	45	44	<20	<20	<20			44	40	45	26
Residential	322603	45	46	<20	<20	<20			50	46	51	27
Residential	322605	45	46	<20	<20	<20			50	46	51	25
Residential	322606	45	48	<20	<20	<20			48	44	49	26
Residential	322607	45	36	<20	<20	<20			35	32	37	23
Residential	322608	45	38	<20	<20	<20			36	33	38	23
Residential	322609	45	40	<20	<20	<20			37	33	39	26
Residential	322610	45	40	<20	<20	<20			37	33	38	27
Residential	322615	45	44	<20	<20	<20			47	43	49	25
Residential	322617	45	43	<20	<20	<20			47	43	48	25
Residential	322624	45	50	<20	<20	<20			52	48	54	29
Residential	322625	45	54	<20	<20	<20			63	59	64	27
Residential	322627	45	43	<20	<20	<20			42	38	43	25
Residential	322628	45	46	<20	<20	<20			48	44	50	46
Residential	322629	45	43	<20	<20	<20			44	40	45	25
Residential	322630	45	48	<20	<20	<20			47	43	48	28
Residential	322631	45	42	<20	<20	<20			40	36	41	27
Residential	322635	45	40	<20	<20	<20			39	35	40	23
Residential	322636	45	41	<20	<20	<20			40	37	42	27
Residential	322637	45	42	<20	<20	<20			42	38	43	27
Residential	322638	45	45	<20	<20	<20			45	41	46	26
Residential	322639	45	41	<20	<20	<20			38	34	39	29
Residential	322640	45	44	<20	<20	<20			43	39	44	27
Residential	322643	45	43	<20	<20	<20			41	37	42	28
Residential	322644	45	42	<20	<20	<20			42	38	43	26
Residential	322646	45	49	<20	<20	<20			55	51	56	26
Residential	322648	45	46	<20	<20	<20			46	42	47	26
Residential	322649	45	49	<20	<20	<20			53	49	54	26
Residential	322650	45	43	<20	<20	<20			42	38	43	25
Residential	322651	45	48	<20	<20	<20			47	43	48	27
Residential	322652	45	44	<20	<20	<20			42	38	44	28
Residential	322654	45	42	<20	<20	<20			42	38	43	29
Residential	322656	45	43	<20	<20	<20			42	39	44	25
Residential	322660	45	47	<20	<20	<20			52	48	53	28
Residential	322662	45	36	<20	<20	<20			34	30	35	22
Residential	322663	45	36	<20	<20	<20			34	30	35	22
Residential	322665	45	57	<20	<20	<20			60	56	62	30
Residential	322666	45	43	<20	<20	<20			43	39	45	24
Residential	322668	45	46	<20	<20	<20			45	41	46	28
Residential	322672	45	44	<20	<20	<20			44	40	45	24
Residential	322673	45	43	<20	<20	<20			43	39	44	24
Residential	322679	45	43	<20	<20	<20			44	40	46	24
Residential	322681	45	39	<20	<20	<20			37	33	38	25

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	322687	45	44	<20	<20	<20			47	43	48	25
Residential	322714	45	40	<20	<20	<20			41	37	42	24
Residential	322716	45	39	<20	<20	<20			39	36	41	24
Residential	322719	45	41	<20	<20	<20			44	40	45	24
Residential	322720	45	37	<20	<20	<20			34	30	35	26
Residential	322723	45	34	<20	<20	<20			35	31	36	22
Residential	322724	45	38	<20	<20	<20			36	32	37	23
Residential	322725	45	38	<20	<20	<20			36	32	37	25
Residential	322726	45	39	<20	<20	<20			36	32	37	29
Residential	322728	45	41	<20	<20	<20			37	33	39	28
Residential	322729	45	48	<20	<20	<20			50	46	51	27
Residential	322730	45	49	<20	<20	<20			51	47	52	27
Residential	322732	45	46	<20	<20	<20			51	47	52	29
Residential	322733	45	44	<20	<20	<20			42	38	43	29
Residential	322735	45	37	<20	<20	<20			37	33	38	25
Residential	322781	45	44	<20	<20	<20			47	43	49	25
Residential	322784	45	35	<20	<20	<20			33	29	34	22
Residential	322785	45	36	<20	<20	<20			33	30	34	23
Residential	322786	45	49	<20	<20	<20			52	48	53	26
Residential	322787	45	40	<20	<20	<20			38	34	39	23
Residential	322788	45	39	<20	<20	<20			38	34	39	23
Residential	322789	45	40	<20	<20	<20			38	34	39	24
Residential	322791	45	42	<20	<20	<20			43	39	45	24
Residential	322792	45	49	<20	<20	<20			54	50	56	26
Residential	322794	45	50	<20	<20	<20			51	46	52	28
Residential	322798	45	53	<20	<20	<20			53	49	55	30
Residential	322808	45	37	<20	<20	<20			46	42	47	32
Residential	322809	45	35	<20	<20	<20			40	36	41	38
Residential	322810	45	34	<20	<20	<20			41	37	42	37
Residential	322850	45	43	<20	<20	<20			40	36	41	27
Residential	322851	45	42	<20	<20	<20			39	35	40	26
Residential	322852	45	36	<20	<20	<20			34	31	36	24
Residential	322889	45	44	<20	<20	<20			41	37	42	30
Residential	322890	45	36	<20	<20	<20			37	33	38	24
Residential	322894	45	39	<20	<20	<20			37	34	39	24
Residential	322946	45	38	<20	<20	<20			36	32	37	27
Residential	322950	45	39	<20	<20	<20			37	33	38	28
Residential	322996	45	38	<20	<20	<20			35	32	37	27
Residential	322997	45	37	<20	<20	<20			34	30	35	25
Residential	323033	45	38	<20	<20	<20			41	37	42	37
Residential	323037	45	38	<20	<20	<20			48	44	49	45
Residential	323066	45	43	<20	<20	<20			45	41	46	25
Residential	323074	45	36	<20	<20	<20			33	29	34	27
Residential	323100	45	36	<20	<20	<20			34	31	36	24

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323105	45	46	<20	<20	<20			51	46	52	26
Residential	323146	45	37	<20	<20	<20			35	32	37	24
Residential	323147	45	46	<20	<20	<20			47	43	48	26
Residential	323149	45	42	<20	<20	<20			44	40	45	27
Residential	323153	45	38	<20	<20	<20			36	32	37	26
Residential	323154	45	38	<20	<20	<20			36	32	37	26
Residential	323156	45	42	<20	<20	<20			40	36	41	28
Residential	323159	45	47	<20	<20	<20			46	42	47	27
Residential	323221	45	37	<20	<20	<20			34	31	35	25
Residential	323222	45	45	<20	<20	<20			44	40	45	26
Residential	323225	45	37	<20	<20	<20			36	32	37	28
Residential	323226	45	45	<20	<20	<20			44	40	45	28
Residential	323227	45	42	<20	<20	<20			41	37	43	27
Residential	323231	45	39	<20	<20	<20			36	33	38	26
Residential	323234	45	45	<20	<20	<20			53	48	54	50
Residential	323279	45	39	<20	<20	<20			39	35	40	23
Residential	323281	45	43	<20	<20	<20			44	40	45	27
Residential	323282	45	51	<20	<20	<20			51	46	52	32
Residential	323286	45	41	<20	<20	<20			41	37	42	30
Residential	323288	45	38	<20	<20	<20			36	32	37	25
Residential	323290	45	39	<20	<20	<20			36	32	37	27
Residential	323304	45	40	<20	<20	<20			38	34	39	27
Residential	323307	45	40	<20	<20	<20			37	33	38	27
Residential	323308	45	40	<20	<20	<20			37	33	38	27
Residential	323309	45	40	<20	<20	<20			37	34	39	29
Residential	323311	45	38	<20	<20	<20			36	33	38	23
Residential	323312	45	38	<20	<20	<20			36	32	37	23
Residential	323313	45	38	<20	<20	<20			36	32	37	25
Residential	323325	45	36	<20	<20	<20			33	30	34	22
Residential	323340	45	45	<20	<20	<20			45	41	46	26
Residential	323351	45	46	<20	<20	<20			46	42	47	26
Residential	323355	45	42	<20	<20	<20			42	38	43	24
Residential	323356	45	41	<20	<20	<20			41	37	42	28
Residential	323384	45	42	<20	<20	<20			41	37	43	26
Residential	323397	45	49	<20	<20	<20			54	50	56	26
Residential	323399	45	40	<20	<20	<20			38	34	39	24
Residential	323401	45	40	<20	<20	<20			38	34	39	24
Residential	323402	45	39	<20	<20	<20			38	34	39	23
Residential	323403	45	41	<20	<20	<20			44	40	45	25
Residential	323404	45	44	<20	<20	<20			42	38	43	24
Residential	323406	45	54	<20	<20	<20			58	54	59	36
Residential	323407	45	39	<20	<20	<20			37	33	38	26
Residential	323408	45	50	<20	<20	<20			54	50	56	27
Residential	323409	45	42	<20	<20	<20			41	37	42	25

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323411	45	40	<20	<20	<20			40	36	41	25
Residential	323414	45	47	<20	<20	<20			53	49	55	26
Residential	323415	45	52	<20	<20	<20			55	51	57	26
Residential	323416	45	51	<20	<20	<20			59	55	60	28
Residential	323417	45	50	<20	<20	<20			54	50	55	27
Residential	323419	45	50	<20	<20	<20			52	48	53	26
Residential	323420	45	39	<20	<20	<20			39	36	41	23
Residential	323421	45	47	<20	<20	<20			53	49	54	27
Residential	323423	45	43	<20	<20	<20			44	40	45	25
Residential	323424	45	42	<20	<20	<20			42	38	44	25
Residential	323425	45	43	<20	<20	<20			41	38	43	27
Residential	323428	45	38	<20	<20	<20			37	33	38	23
Residential	323429	45	39	<20	<20	<20			37	33	38	23
Residential	323430	45	42	<20	<20	<20			42	38	43	26
Residential	323432	45	42	<20	<20	<20			41	38	43	25
Residential	323435	45	42	<20	<20	<20			43	39	44	30
Residential	323436	45	46	<20	<20	<20			48	44	49	28
Residential	323437	45	36	<20	<20	<20			36	32	37	23
Residential	323438	45	36	<20	<20	<20			33	29	34	22
Residential	323439	45	37	<20	<20	<20			35	31	36	23
Residential	323440	45	38	<20	<20	<20			37	34	39	24
Residential	323441	45	35	<20	<20	<20			35	32	37	23
Residential	323442	45	36	<20	<20	<20			34	30	35	22
Residential	323443	45	40	<20	<20	<20			37	33	39	28
Residential	323444	45	38	<20	<20	<20			36	32	37	29
Residential	323445	45	38	<20	<20	<20			36	32	37	30
Residential	323446	45	45	<20	<20	<20			46	42	47	25
Residential	323447	45	35	<20	<20	<20			33	30	34	22
Residential	323449	45	55	<20	<20	<20			58	54	59	29
Residential	323452	45	43	<20	<20	<20			52	48	53	49
Residential	323453	45	46	<20	<20	<20			53	49	54	28
Residential	323456	45	37	<20	<20	<20			34	31	36	25
Residential	323457	45	37	<20	<20	<20			35	31	36	25
Residential	323458	45	57	<20	<20	<20			64	60	66	25
Residential	323459	45	41	<20	<20	<20			39	35	41	30
Residential	323461	45	54	<20	<20	<20			60	56	61	25
Residential	323462	45	43	<20	<20	<20			43	39	44	24
Residential	323463	45	43	<20	<20	<20			45	41	46	26
Residential	323464	45	46	<20	<20	<20			49	45	50	26
Residential	323465	45	44	<20	<20	<20			48	44	49	25
Residential	323466	45	46	<20	<20	<20			51	47	52	29
Residential	323467	45	43	<20	<20	<20			41	37	42	27
Residential	323468	45	36	<20	<20	<20			33	30	35	24
Residential	323469	45	46	<20	<20	<20			50	46	51	30

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323470	45	39	<20	<20	<20			36	33	38	26
Residential	323472	45	36	<20	<20	<20			33	30	34	25
Residential	323473	45	33	<20	<20	<20			32	29	34	25
Residential	323474	45	37	<20	<20	<20			35	31	36	27
Residential	323475	45	38	<20	<20	<20			36	32	37	25
Residential	323476	45	44	<20	<20	<20			50	46	52	27
Residential	323478	45	41	<20	<20	<20			38	35	40	28
Residential	323480	45	44	<20	<20	<20			47	43	48	26
Residential	323485	45	36	<20	<20	<20			46	42	47	39
Residential	323487	45	40	<20	<20	<20			41	37	42	24
Residential	323488	45	40	<20	<20	<20			44	40	45	24
Residential	323489	45	37	<20	<20	<20			34	30	35	26
Residential	323490	45	37	<20	<20	<20			34	31	36	26
Residential	323491	45	42	<20	<20	<20			41	37	42	27
Residential	323492	45	41	<20	<20	<20			39	35	40	28
Residential	323493	45	37	<20	<20	<20			35	31	36	22
Residential	323494	45	36	<20	<20	<20			34	31	36	22
Residential	323495	45	36	<20	<20	<20			34	31	36	22
Residential	323496	45	36	<20	<20	<20			35	31	36	27
Residential	323497	45	38	<20	<20	<20			35	32	37	29
Residential	323499	45	35	<20	<20	<20			35	31	36	27
Residential	323500	45	37	<20	<20	<20			35	31	36	27
Residential	323501	45	38	<20	<20	<20			38	34	39	24
Residential	323502	45	45	<20	<20	<20			43	39	44	25
Residential	323503	45	52	<20	<20	<20			54	50	55	29
Residential	323504	45	52	<20	<20	<20			53	49	54	27
Residential	323505	45	37	<20	<20	<20			40	36	41	37
Residential	323507	45	38	<20	<20	<20			35	31	36	29
Residential	323508	45	43	<20	<20	<20			45	41	47	30
Residential	323510	45	48	<20	<20	<20			50	46	52	26
Residential	323511	45	44	<20	<20	<20			49	45	50	28
Residential	323512	45	44	<20	<20	<20			45	41	46	28
Residential	323513	45	44	<20	<20	<20			47	43	48	26
Residential	323515	45	39	<20	<20	<20			37	33	38	24
Residential	323517	45	37	<20	<20	<20			35	31	36	25
Residential	323518	45	37	<20	<20	<20			35	32	37	28
Residential	323519	45	36	<20	<20	<20			34	30	35	22
Residential	323520	45	36	<20	<20	<20			33	30	34	22
Residential	323522	45	45	<20	<20	<20			50	46	52	25
Residential	323523	45	41	<20	<20	<20			44	40	45	24
Residential	323524	45	42	<20	<20	<20			43	39	45	24
Residential	323525	45	56	<20	<20	<20			59	55	60	29
Residential	323526	45	36	<20	<20	<20			35	32	37	22
Residential	323527	45	38	<20	<20	<20			36	32	37	23

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323528	45	47	<20	<20	<20			46	42	47	26
Residential	323529	45	43	<20	<20	<20			42	39	44	26
Residential	323530	45	46	<20	<20	<20			46	42	48	29
Residential	323531	45	40	<20	<20	<20			41	37	43	24
Residential	323533	45	43	<20	<20	<20			44	40	45	25
Residential	323535	45	39	<20	<20	<20			37	33	39	29
Residential	323536	45	43	<20	<20	<20			42	38	43	27
Residential	323539	45	38	<20	<20	<20			41	37	42	26
Residential	323541	45	39	<20	<20	<20			38	34	39	26
Residential	323543	45	45	<20	<20	<20			49	44	50	28
Residential	323544	45	38	<20	<20	<20			37	33	38	29
Residential	323545	45	39	<20	<20	<20			37	33	38	27
Residential	323546	45	38	<20	<20	<20			35	32	37	25
Residential	323547	45	37	<20	<20	<20			35	31	36	26
Residential	323548	45	38	<20	<20	<20			35	31	36	26
Residential	323549	45	53	<20	<20	<20			56	52	57	29
Residential	323550	45	38	<20	<20	<20			35	31	36	28
Residential	323551	45	37	<20	<20	<20			35	31	36	29
Residential	323552	45	36	<20	<20	<20			34	31	35	27
Residential	323553	45	40	<20	<20	<20			39	35	40	24
Residential	323554	45	38	<20	<20	<20			35	32	37	27
Residential	323555	45	43	<20	<20	<20			41	37	43	26
Residential	323556	45	50	<20	<20	<20			51	47	53	28
Residential	323557	45	49	<20	<20	<20			53	48	54	28
Residential	323558	45	43	<20	<20	<20			43	39	44	26
Residential	323559	45	45	<20	<20	<20			43	39	45	27
Residential	323560	45	53	<20	<20	<20			53	49	54	28
Residential	323561	45	45	<20	<20	<20			45	41	46	25
Residential	323562	45	43	<20	<20	<20			45	41	46	25
Residential	323564	45	55	<20	<20	<20			61	57	62	29
Residential	323565	45	43	<20	<20	<20			40	36	42	30
Residential	323566	45	36	<20	<20	<20			34	31	36	22
Residential	323567	45	35	<20	<20	<20			34	30	35	23
Residential	323568	45	45	<20	<20	<20			46	42	47	25
Residential	323569	45	55	<20	<20	<20			58	54	60	30
Residential	323570	45	54	<20	<20	<20			57	53	58	29
Residential	323572	45	40	<20	<20	<20			43	39	44	23
Residential	323573	45	39	<20	<20	<20			39	36	41	24
Residential	323574	45	35	<20	<20	<20			33	29	34	26
Residential	323575	45	49	<20	<20	<20			51	47	53	31
Residential	323576	45	50	<20	<20	<20			55	51	57	25
Residential	323577	45	51	<20	<20	<20			55	51	56	27
Residential	323578	45	40	<20	<20	<20			43	39	44	24
Residential	323579	45	35	<20	<20	<20			52	48	54	50

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323580	45	42	<20	<20	<20			41	38	43	26
Residential	323581	45	40	<20	<20	<20			40	36	41	24
Residential	323582	45	36	<20	<20	<20			34	31	36	22
Residential	323583	45	39	<20	<20	<20			39	35	40	24
Residential	323584	45	39	<20	<20	<20			37	33	39	24
Residential	323585	45	38	<20	<20	<20			37	34	39	24
Residential	323586	45	38	<20	<20	<20			37	33	38	23
Residential	323587	45	38	<20	<20	<20			36	32	37	23
Residential	323588	45	37	<20	<20	<20			34	30	35	24
Residential	323589	45	38	<20	<20	<20			36	32	37	23
Residential	323590	45	37	<20	<20	<20			36	32	37	23
Residential	323591	45	38	<20	<20	<20			40	36	41	36
Residential	323592	45	47	<20	<20	<20			54	50	56	34
Residential	323593	45	48	<20	<20	<20			49	45	50	28
Residential	323594	45	48	<20	<20	<20			48	44	49	28
Residential	323595	45	43	<20	<20	<20			47	43	48	28
Residential	323596	45	40	<20	<20	<20			40	37	42	24
Residential	323597	45	46	<20	<20	<20			47	43	49	25
Residential	323598	45	53	<20	<20	<20			56	52	57	28
Residential	323599	45	46	<20	<20	<20			44	40	46	26
Residential	323600	45	45	<20	<20	<20			45	41	46	26
Residential	323601	45	47	<20	<20	<20			47	43	48	26
Residential	323602	45	46	<20	<20	<20			47	43	48	26
Residential	323603	45	45	<20	<20	<20			45	41	46	26
Residential	323605	45	57	<20	<20	<20			56	52	58	32
Residential	323606	45	44	<20	<20	<20			48	44	49	24
Residential	323607	45	43	<20	<20	<20			44	40	46	25
Residential	323609	45	38	<20	<20	<20			37	33	39	24
Residential	323610	45	37	<20	<20	<20			37	33	38	26
Residential	323611	45	37	<20	<20	<20			36	33	38	23
Residential	323612	45	36	<20	<20	<20			33	30	35	21
Residential	323613	45	42	<20	<20	<20			41	37	43	25
Residential	323614	45	38	<20	<20	<20			39	35	40	26
Residential	323615	45	37	<20	<20	<20			35	31	36	25
Residential	323618	45	43	<20	<20	<20			41	37	42	28
Residential	323619	45	42	<20	<20	<20			40	37	42	28
Residential	323620	45	49	<20	<20	<20			51	47	52	27
Residential	323621	45	45	<20	<20	<20			44	40	45	26
Residential	323622	45	51	<20	<20	<20			58	54	59	27
Residential	323623	45	52	<20	<20	<20			53	49	54	27
Residential	323625	45	42	<20	<20	<20			43	39	44	24
Residential	323626	45	42	<20	<20	<20			43	39	44	25
Residential	323627	45	53	<20	<20	<20			55	51	56	30
Residential	323628	45	52	<20	<20	<20			54	50	55	29

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323630	45	37	<20	<20	<20			33	30	35	26
Residential	323631	45	36	<20	<20	<20			34	30	35	26
Residential	323635	45	54	<20	<20	<20			56	52	58	26
Residential	323636	45	54	<20	<20	<20			56	52	57	27
Residential	323638	45	41	<20	<20	<20			39	35	40	27
Residential	323639	45	44	<20	<20	<20			44	40	45	28
Residential	323640	45	45	<20	<20	<20			44	40	46	27
Residential	323641	45	38	<20	<20	<20			36	32	37	28
Residential	323642	45	39	<20	<20	<20			37	33	38	24
Residential	323643	45	36	<20	<20	<20			33	30	35	24
Residential	323644	45	36	<20	<20	<20			33	29	34	24
Residential	323645	45	40	<20	<20	<20			40	36	41	27
Residential	323646	45	40	<20	<20	<20			41	37	42	27
Residential	323647	45	41	<20	<20	<20			41	37	42	26
Residential	323648	45	41	<20	<20	<20			41	37	42	27
Residential	323650	45	42	<20	<20	<20			43	39	45	24
Residential	323651	45	56	<20	<20	<20			60	56	61	28
Residential	323652	45	44	<20	<20	<20			45	41	46	25
Residential	323653	45	43	<20	<20	<20			42	38	44	25
Residential	323654	45	45	<20	<20	<20			50	46	51	25
Residential	323655	45	50	<20	<20	<20			53	49	55	26
Residential	323656	45	48	<20	<20	<20			54	50	55	28
Residential	323658	45	53	<20	<20	<20			56	52	57	26
Residential	323659	45	38	<20	<20	<20			35	31	36	24
Residential	323661	45	35	<20	<20	<20			33	29	34	22
Residential	323662	45	38	<20	<20	<20			36	32	37	23
Residential	323663	45	38	<20	<20	<20			37	33	38	23
Residential	323665	45	35	<20	<20	<20			33	29	34	22
Residential	323666	45	38	<20	<20	<20			36	32	37	26
Residential	323667	45	46	<20	<20	<20			45	41	47	29
Residential	323668	45	42	<20	<20	<20			42	38	43	25
Residential	323669	45	44	<20	<20	<20			43	39	44	28
Residential	323670	45	52	<20	<20	<20			54	49	55	29
Residential	323671	45	49	<20	<20	<20			48	44	49	27
Residential	323672	45	39	<20	<20	<20			38	34	39	25
Residential	323673	45	40	<20	<20	<20			38	34	39	27
Residential	323674	45	40	<20	<20	<20			38	34	39	27
Residential	323675	45	45	<20	<20	<20			45	41	46	27
Residential	323676	45	45	<20	<20	<20			44	40	46	26
Residential	323678	45	55	<20	<20	<20			66	62	67	27
Residential	323680	45	58	<20	<20	<20			68	64	69	26
Residential	323681	45	44	<20	<20	<20			44	40	45	27
Residential	323682	45	36	<20	<20	<20			33	29	34	24
Residential	323683	45	53	<20	<20	<20			55	51	57	29

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323685	45	36	<20	<20	<20			34	30	35	22
Residential	323686	45	37	<20	<20	<20			35	32	37	23
Residential	323687	45	36	<20	<20	<20			35	31	36	22
Residential	323688	45	37	<20	<20	<20			35	31	36	23
Residential	323689	45	35	<20	<20	<20			33	29	34	22
Residential	323690	45	35	<20	<20	<20			33	30	34	22
Residential	323691	45	36	<20	<20	<20			33	30	35	23
Residential	323693	45	36	<20	<20	<20			35	31	36	23
Residential	323694	45	37	<20	<20	<20			35	31	36	24
Residential	323695	45	43	<20	<20	<20			42	38	43	27
Residential	323696	45	46	<20	<20	<20			44	40	45	28
Residential	323697	45	39	<20	<20	<20			39	35	40	24
Residential	323698	45	43	<20	<20	<20			47	43	48	25
Residential	323699	45	44	<20	<20	<20			49	45	50	26
Residential	323700	45	40	<20	<20	<20			39	35	40	23
Residential	323701	45	40	<20	<20	<20			38	34	39	23
Residential	323702	45	45	<20	<20	<20			48	44	50	28
Residential	323703	45	48	<20	<20	<20			50	46	51	26
Residential	323704	45	40	<20	<20	<20			39	35	40	23
Residential	323705	45	41	<20	<20	<20			42	38	43	25
Residential	323706	45	36	<20	<20	<20			34	31	36	24
Residential	323708	45	38	<20	<20	<20			35	31	36	26
Residential	323709	45	33	<20	<20	<20			34	30	35	29
Residential	323710	45	58	<20	<20	<20			62	58	63	28
Residential	323711	45	52	<20	<20	<20			62	58	63	25
Residential	323712	45	40	<20	<20	<20			40	37	42	24
Residential	323713	45	37	<20	<20	<20			36	32	37	23
Residential	323714	45	52	<20	<20	<20			58	54	60	26
Residential	323716	45	38	<20	<20	<20			36	33	38	27
Residential	323717	45	39	<20	<20	<20			37	33	38	27
Residential	323718	45	38	<20	<20	<20			35	32	37	26
Residential	323720	45	55	<20	<20	<20			67	63	68	28
Residential	323722	45	57	<20	<20	<20			66	62	68	27
Residential	323723	45	36	<20	<20	<20			33	29	34	26
Residential	323724	45	36	<20	<20	<20			33	30	35	28
Residential	323726	45	39	<20	<20	<20			36	32	37	25
Residential	323727	45	39	<20	<20	<20			37	33	38	25
Residential	323728	45	38	<20	<20	<20			35	32	37	29
Residential	323729	45	37	<20	<20	<20			35	31	36	26
Residential	323730	45	40	<20	<20	<20			38	34	39	23
Residential	323731	45	38	<20	<20	<20			36	32	37	27
Residential	323732	45	39	<20	<20	<20			38	34	39	23
Residential	323733	45	38	<20	<20	<20			38	34	40	23
Residential	323734	45	38	<20	<20	<20			38	34	39	24

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323735	45	41	<20	<20	<20			40	37	42	25
Residential	323736	45	39	<20	<20	<20			37	34	39	23
Residential	323737	45	40	<20	<20	<20			37	34	39	26
Residential	323738	45	48	<20	<20	<20			52	48	53	48
Residential	323739	45	36	<20	<20	<20			34	30	35	25
Residential	323740	45	37	<20	<20	<20			34	30	35	25
Residential	323741	45	37	<20	<20	<20			35	32	37	30
Residential	323742	45	44	<20	<20	<20			44	40	45	29
Residential	323743	45	44	<20	<20	<20			43	39	44	29
Residential	323744	45	44	<20	<20	<20			44	40	45	26
Residential	323745	45	50	<20	<20	<20			62	59	64	26
Residential	323746	45	52	<20	<20	<20			61	57	62	28
Residential	323747	45	37	<20	<20	<20			35	31	36	23
Residential	323748	45	50	<20	<20	<20			53	49	54	26
Residential	323749	45	38	<20	<20	<20			36	32	37	28
Residential	323750	45	37	<20	<20	<20			35	31	36	23
Residential	323751	45	38	<20	<20	<20			37	33	38	25
Residential	323752	45	37	<20	<20	<20			35	31	36	25
Residential	323754	45	42	<20	<20	<20			45	41	46	25
Residential	323756	45	43	<20	<20	<20			48	44	49	27
Residential	323757	45	45	<20	<20	<20			46	42	47	25
Residential	323758	45	44	<20	<20	<20			45	41	46	25
Residential	323759	45	45	<20	<20	<20			50	46	51	25
Residential	323760	45	48	<20	<20	<20			51	47	52	25
Residential	323761	45	48	<20	<20	<20			50	46	51	26
Residential	323762	45	42	<20	<20	<20			40	36	42	28
Residential	323763	45	39	<20	<20	<20			37	33	38	23
Residential	323767	45	45	<20	<20	<20			45	41	46	27
Residential	323768	45	45	<20	<20	<20			45	41	46	27
Residential	323769	45	42	<20	<20	<20			39	35	40	29
Residential	323770	45	50	<20	<20	<20			50	46	52	30
Residential	323771	45	47	<20	<20	<20			50	46	51	31
Residential	323772	45	36	<20	<20	<20			35	31	36	24
Residential	323773	45	42	<20	<20	<20			40	36	41	29
Residential	323774	45	36	<20	<20	<20			35	31	36	22
Residential	323775	45	36	<20	<20	<20			34	31	36	23
Residential	323777	45	39	<20	<20	<20			37	33	38	26
Residential	323778	45	38	<20	<20	<20			35	31	36	24
Residential	323780	45	52	<20	<20	<20			64	60	66	27
Residential	323782	45	42	<20	<20	<20			41	37	42	31
Residential	323783	45	42	<20	<20	<20			41	37	42	29
Residential	323784	45	37	<20	<20	<20			35	31	36	25
Residential	323785	45	38	<20	<20	<20			37	34	39	23
Residential	323786	45	51	<20	<20	<20			51	47	52	28

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323788	45	47	<20	<20	<20			47	43	48	27
Residential	323789	45	50	<20	<20	<20			54	49	55	28
Residential	323790	45	40	<20	<20	<20			39	35	41	24
Residential	323791	45	49	<20	<20	<20			52	48	53	26
Residential	323792	45	45	<20	<20	<20			48	44	49	26
Residential	323793	45	39	<20	<20	<20			36	33	38	25
Residential	323794	45	41	<20	<20	<20			39	35	40	28
Residential	323795	45	45	<20	<20	<20			51	46	52	28
Residential	323796	45	63	<20	<20	<20			63	59	65	29
Residential	323797	45	51	<20	<20	<20			52	48	53	29
Residential	323798	45	55	<20	<20	<20			58	54	59	27
Residential	323799	45	40	<20	<20	<20			38	34	39	24
Residential	323800	45	39	<20	<20	<20			37	34	39	23
Residential	323801	45	49	<20	<20	<20			50	46	51	27
Residential	323802	45	37	<20	<20	<20			34	30	35	25
Residential	323803	45	50	<20	<20	<20			50	46	51	34
Residential	323804	45	61	<20	<20	<20			62	58	63	29
Residential	323805	45	47	<20	<20	<20			50	46	51	29
Residential	323806	45	46	<20	<20	<20			51	47	52	30
Residential	323808	45	44	<20	<20	<20			49	45	51	25
Residential	323809	45	52	<20	<20	<20			53	49	55	26
Residential	323811	45	37	<20	<20	<20			36	32	37	24
Residential	323812	45	36	<20	<20	<20			34	30	35	23
Residential	323813	45	37	<20	<20	<20			35	31	36	24
Residential	323815	45	40	<20	<20	<20			36	32	37	28
Residential	323816	45	40	<20	<20	<20			37	33	38	31
Residential	323817	45	44	<20	<20	<20			45	41	46	25
Residential	323818	45	42	<20	<20	<20			42	38	43	24
Residential	323819	45	55	<20	<20	<20			61	57	62	25
Residential	323823	45	52	<20	<20	<20			53	49	55	32
Residential	323824	45	36	<20	<20	<20			33	29	34	22
Residential	323825	45	47	<20	<20	<20			44	40	45	29
Residential	323828	45	36	<20	<20	<20			33	29	34	21
Residential	323829	45	41	<20	<20	<20			39	35	40	28
Residential	323830	45	44	<20	<20	<20			48	44	49	26
Residential	323831	45	48	<20	<20	<20			50	46	51	25
Residential	323832	45	53	<20	<20	<20			55	51	56	28
Residential	323833	45	49	<20	<20	<20			51	47	52	25
Residential	323834	45	40	<20	<20	<20			37	33	38	27
Residential	323835	45	45	<20	<20	<20			44	40	45	29
Residential	323836	45	45	<20	<20	<20			44	40	45	29
Residential	323837	45	35	<20	<20	<20			34	30	35	22
Residential	323838	45	36	<20	<20	<20			34	30	35	22
Residential	323839	45	39	<20	<20	<20			37	33	38	24

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323840	45	39	<20	<20	<20			37	33	38	23
Residential	323841	45	40	<20	<20	<20			38	34	39	27
Residential	323843	45	41	<20	<20	<20			39	35	40	29
Residential	323844	45	53	<20	<20	<20			59	55	61	25
Residential	323845	45	50	<20	<20	<20			53	49	54	27
Residential	323846	45	54	<20	<20	<20			59	55	60	25
Residential	323847	45	53	<20	<20	<20			56	52	57	25
Residential	323848	45	53	<20	<20	<20			57	52	58	26
Residential	323849	45	41	<20	<20	<20			39	35	40	27
Residential	323850	45	42	<20	<20	<20			39	35	40	28
Residential	323851	45	43	<20	<20	<20			42	38	44	26
Residential	323852	45	43	<20	<20	<20			43	39	45	24
Residential	323853	45	44	<20	<20	<20			44	40	45	24
Residential	323854	45	70	<20	<20	<20			79	75	81	30
Residential	323856	45	40	<20	<20	<20			40	36	42	25
Residential	323857	45	47	<20	<20	<20			47	43	48	26
Residential	323862	45	41	<20	<20	<20			42	38	43	24
Residential	323866	45	44	<20	<20	<20			52	48	53	26
Residential	323867	45	52	<20	<20	<20			59	55	60	25
Residential	323868	45	55	<20	<20	<20			62	59	64	27
Residential	323871	45	41	<20	<20	<20			37	34	39	29
Residential	323872	45	32	<20	<20	<20			35	31	36	33
Residential	323876	45	45	<20	<20	<20			51	47	52	34
Residential	323877	45	40	<20	<20	<20			39	35	40	23
Residential	323878	45	37	<20	<20	<20			35	32	37	23
Residential	323879	45	37	<20	<20	<20			35	31	36	23
Residential	323880	45	37	<20	<20	<20			35	31	36	24
Residential	323882	45	39	<20	<20	<20			37	33	38	25
Residential	323883	45	38	<20	<20	<20			37	33	38	26
Residential	323884	45	43	<20	<20	<20			43	39	44	25
Residential	323885	45	43	<20	<20	<20			47	43	48	26
Residential	323887	45	45	<20	<20	<20			51	47	52	27
Residential	323891	45	38	<20	<20	<20			36	32	37	28
Residential	323893	45	50	<20	<20	<20			54	50	55	25
Residential	323894	45	42	<20	<20	<20			44	40	45	24
Residential	323895	45	44	<20	<20	<20			43	39	44	30
Residential	323896	45	46	<20	<20	<20			46	42	47	27
Residential	323897	45	46	<20	<20	<20			49	45	50	27
Residential	323898	45	42	<20	<20	<20			46	42	47	27
Residential	323899	45	41	<20	<20	<20			45	41	46	26
Residential	323901	45	37	<20	<20	<20			36	32	37	23
Residential	323902	45	37	<20	<20	<20			35	31	36	22
Residential	323903	45	37	<20	<20	<20			35	31	36	26
Residential	323904	45	45	<20	<20	<20			45	41	46	26

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	323905	45	42	<20	<20	<20			46	42	47	23
Residential	323906	45	43	<20	<20	<20			43	39	45	24
Residential	323907	45	43	<20	<20	<20			45	41	46	26
Residential	323908	45	45	<20	<20	<20			48	44	49	25
Residential	323909	45	34	<20	<20	<20			33	29	34	22
Residential	323910	45	44	<20	<20	<20			45	41	47	24
Residential	323911	45	44	<20	<20	<20			43	40	45	25
Residential	323912	45	53	<20	<20	<20			53	49	54	30
Residential	323913	45	52	<20	<20	<20			52	48	54	29
Residential	323914	45	51	<20	<20	<20			52	48	53	31
Residential	323915	45	46	<20	<20	<20			46	42	47	27
Residential	323916	45	44	<20	<20	<20			44	40	45	26
Residential	323917	45	40	<20	<20	<20			37	33	38	27
Residential	323918	45	45	<20	<20	<20			46	42	47	25
Residential	323919	45	46	<20	<20	<20			46	42	47	27
Residential	323920	45	46	<20	<20	<20			44	40	46	27
Residential	323921	45	47	<20	<20	<20			46	42	47	27
Residential	323922	45	46	<20	<20	<20			46	42	47	27
Residential	323923	45	45	<20	<20	<20			45	41	46	28
Residential	323925	45	49	<20	<20	<20			52	48	53	30
Residential	323926	45	37	<20	<20	<20			36	32	37	23
Residential	323927	45	49	<20	<20	<20			51	47	52	28
Residential	323928	45	43	<20	<20	<20			43	39	44	25
Residential	323929	45	43	<20	<20	<20			43	39	44	25
Residential	323930	45	52	<20	<20	<20			58	54	60	28
Residential	323931	45	36	<20	<20	<20			35	32	37	23
Residential	323932	45	37	<20	<20	<20			34	31	36	23
Residential	323933	45	38	<20	<20	<20			36	33	38	23
Residential	323934	45	39	<20	<20	<20			36	32	37	28
Residential	323935	45	44	<20	<20	<20			43	39	44	27
Residential	323936	45	45	<20	<20	<20			43	39	45	27
Residential	323937	45	42	<20	<20	<20			41	37	43	28
Residential	323938	45	43	<20	<20	<20			43	39	44	27
Residential	323939	45	41	<20	<20	<20			41	37	43	26
Residential	323940	45	37	<20	<20	<20			46	42	48	44
Residential	323941	45	51	<20	<20	<20			51	47	52	28
Residential	323942	45	37	<20	<20	<20			34	31	36	24
Residential	323943	45	49	<20	<20	<20			51	47	52	29
Residential	323944	45	48	<20	<20	<20			51	47	52	28
Residential	323945	45	48	<20	<20	<20			48	44	49	27
Residential	323946	45	50	<20	<20	<20			51	47	53	29
Residential	323947	45	36	<20	<20	<20			33	29	34	27
Residential	324265	45	38	<20	<20	<20			39	35	40	<20
Residential	324266	45	45	<20	<20	<20			43	39	44	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	324268	45	43	<20	<20	<20			42	38	43	<20
Residential	324270	45	46	21	<20	<20			70	67	72	<20
Residential	324274	45	60	<20	<20	39			61	57	62	<20
Residential	324277	45	55	<20	<20	<20			56	52	57	26
Residential	324333	45	62	<20	<20	<20			64	60	65	31
Residential	324347	45	53	<20	<20	<20			59	55	60	25
Residential	1000000	45	40	<20	<20	21			45	41	46	<20
Residential	1000001	45	33	<20	<20	21			37	33	38	<20
Residential	2004625	45	46	<20	<20	<20			48	44	49	<20
Residential	2004721	45	57	<20	<20	34			61	57	63	<20
Residential	2007798	45	37	<20	<20	<20			43	39	44	40
Residential	2007851	45	41	<20	<20	<20			38	35	40	<20
Residential	2008222	45	38	<20	<20	<20			42	38	43	<20
Residential	2008224	45	59	<20	<20	<20			66	62	68	<20
Residential	2008226	45	36	<20	<20	<20			37	34	39	36
Residential	2008227	45	30	<20	<20	<20			40	36	41	<20
Residential	2008232	45	44	<20	<20	36			44	40	46	<20
Residential	2008234	45	38	<20	<20	<20			47	43	48	36
Residential	2008306	45	38	<20	<20	<20			38	34	40	23
Residential	2008307	45	38	<20	<20	<20			38	35	40	23
Residential	2008308	45	39	<20	<20	<20			36	32	37	28
Residential	2008309	45	36	<20	<20	<20			33	30	35	24
Residential	2008314	45	43	<20	<20	<20			48	44	49	25
Residential	2008315	45	45	<20	<20	<20			44	40	45	26
Residential	2008316	45	53	<20	<20	<20			57	53	59	25
Residential	2008317	45	55	<20	<20	<20			58	54	59	26
Residential	2008318	45	61	<20	<20	<20			61	57	62	27
Residential	2008319	45	62	<20	<20	<20			62	58	63	28
Residential	2008321	45	41	<20	<20	<20			41	37	42	25
Residential	2008322	45	39	<20	<20	<20			39	35	40	25
Residential	2008323	45	33	<20	<20	<20			36	33	38	35
Residential	2008324	45	32	<20	<20	<20			37	33	38	36
Residential	2008325	45	34	<20	<20	<20			42	39	44	41
Residential	2008326	45	32	<20	<20	<20			36	32	38	37
Residential	2008328	45	34	<20	<20	<20			42	38	43	40
Residential	2008329	45	45	<20	<20	<20			53	49	54	50
Residential	2008330	45	33	<20	<20	<20			39	36	41	34
Residential	2008331	45	27	<20	<20	<20			33	29	34	29
Residential	2008332	45	28	<20	<20	<20			31	28	33	29
Residential	2008333	45	35	<20	<20	<20			48	44	49	36
Residential	2008335	45	43	<20	<20	<20			44	40	45	28
Residential	2008336	45	43	<20	<20	<20			43	39	45	28
Residential	2008338	45	38	<20	<20	<20			38	34	39	29
Residential	2008339	45	37	<20	<20	<20			35	32	36	35

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	2008340	45	45	<20	<20	<20			59	56	60	45
Residential	2008341	45	55	<20	<20	<20			50	46	51	45
Residential	2008342	45	36	<20	<20	<20			38	35	40	38
Residential	2008343	45	35	<20	<20	<20			46	42	47	44
Residential	2008344	45	34	<20	<20	<20			34	31	36	32
Residential	2008346	45	32	<20	<20	<20			33	29	34	32
Residential	2008347	45	54	<20	<20	<20			58	54	59	20
Residential	2008349	45	39	<20	<20	<20			49	45	51	<20
Residential	2008350	45	38	<20	<20	<20			39	35	40	<20
Residential	2008351	45	45	<20	<20	<20			49	45	50	<20
Residential	2008353	45	37	<20	<20	<20			40	36	42	<20
Residential	2008355	45	40	<20	<20	<20			44	40	45	<20
Residential	2008357	45	40	<20	<20	<20			44	40	45	<20
Residential	2008358	45	33	<20	<20	<20			35	32	37	<20
Residential	2008359	45	32	<20	<20	<20			34	30	35	<20
Residential	2008360	45	34	<20	<20	<20			37	33	38	<20
Residential	2008361	45	33	<20	<20	<20			36	32	37	<20
Residential	2008363	45	32	<20	<20	<20			36	33	38	<20
Residential	2008364	45	33	<20	<20	<20			34	31	36	<20
Residential	2008365	45	33	<20	<20	<20			35	31	36	<20
Residential	2008366	45	32	<20	<20	<20			33	29	34	<20
Residential	2008367	45	30	<20	<20	<20			33	29	34	<20
Residential	2008368	45	32	<20	<20	<20			33	29	34	<20
Residential	2008369	45	30	<20	<20	<20			33	29	34	<20
Residential	2008371	45	31	<20	<20	<20			33	29	34	<20
Residential	2008372	45	29	<20	<20	<20			32	29	34	<20
Residential	2008373	45	29	<20	<20	<20			32	29	34	<20
Residential	2008374	45	30	<20	<20	<20			32	29	34	<20
Residential	2008375	45	30	<20	<20	<20			32	29	34	<20
Residential	2008376	45	30	<20	<20	<20			32	29	33	<20
Residential	2008377	45	31	<20	<20	<20			31	28	32	<20
Residential	2008378	45	31	<20	<20	<20			31	28	33	<20
Residential	2008379	45	28	<20	<20	<20			29	26	30	<20
Residential	2008380	45	24	<20	<20	<20			22	21	24	<20
Residential	2008393	45	31	<20	<20	<20			35	32	37	35
Residential	2008394	45	50	<20	<20	<20			51	47	52	28
Residential	2008396	45	40	<20	<20	<20			38	35	40	27
Residential	2008397	45	39	<20	<20	<20			38	34	39	24
Residential	2008398	45	40	<20	<20	<20			38	34	39	24
Residential	2008399	45	39	<20	<20	<20			37	34	39	24
Residential	2008400	45	39	<20	<20	<20			38	35	40	27
Residential	2008401	45	37	<20	<20	<20			38	34	39	24
Residential	2008402	45	36	<20	<20	<20			38	34	39	24
Residential	2008403	45	35	<20	<20	<20			38	34	39	24

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 1 Laydown areas setup	Scenario 2 Accommodation camps construction	Scenario 3 Accommodation camps operation	Scenario 4 Concrete batching	Scenario 5 Whetstone MDC	Scenario 6 Borrow pits	Scenario 7a Earthworks clearing and grubbing, with dozer and	Scenario 7b Earthworks clearing and grubbing, no dozer and	Scenario 8 Earthworks cut and fill	Scenario 9 Earthworks blasting prep
Residential	2008404	45	39	<20	<20	<20			38	35	40	27
Residential	2008405	45	36	<20	<20	<20			38	34	39	25
Residential	2008406	45	35	<20	<20	<20			38	34	39	24
Residential	2008407	45	35	<20	<20	<20			37	34	39	24
Residential	2008408	45	39	<20	<20	<20			38	35	40	28
Residential	2008409	45	35	<20	<20	<20			38	34	39	26
Residential	2008410	45	35	<20	<20	<20			38	34	39	24
Residential	2008411	45	35	<20	<20	<20			37	34	39	25
Residential	2008412	45	39	<20	<20	<20			38	35	40	28
Residential	2008413	45	36	<20	<20	<20			38	34	39	27
Residential	2008414	45	35	<20	<20	<20			38	34	39	27
Residential	2008415	45	41	<20	<20	<20			44	40	46	<20
Residential	2008417	45	40	<20	<20	<20			45	41	46	<20
Residential	2008418	45	37	<20	<20	<20			44	41	46	<20
Residential	2008420	45	39	<20	<20	<20			45	41	46	<20
Residential	2008421	45	39	<20	<20	<20			41	37	42	<20
Residential	2008422	45	35	<20	<20	<20			37	34	39	<20
Residential	2008423	45	41	<20	<20	<20			43	39	44	26
Residential	2008431	45	38	<20	<20	<20			38	34	39	22
Residential	2008437	45	40	<20	<20	<20			51	47	52	35
Residential	2008438	45	47	<20	<20	<20			49	45	50	31
Residential	2008439	45	39	<20	<20	<20			40	36	41	31
Sporting Facility	320849		40	<20	<20	<20			39	35	40	24
Sporting Facility	321505		57	<20	<20	<20			58	54	60	30
Sporting Facility	322502		38	<20	<20	<20			36	32	37	25
Sporting Facility	322669		39	<20	<20	<20			39	35	40	24
Sporting Facility	323881		39	<20	<20	<20			37	33	38	23
Sporting Facility	2008430		36	<20	<20	<20			33	29	34	25

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Accommodation	254576	45	71	52	54	48	41	74	68	74	64	63
Accommodation	261687	45	60	39	42	36	31	62	57	65	87	86
Accommodation	261703	45	60	32	35	29	26	63	57	65	93	91
Accommodation	316943	45	31	37	40	34	29	35	30	36	34	32
Accommodation	317028	45	30	36	38	32	28	34	28	35	31	29
Accommodation	321058	45	33	38	41	35	29	37	31	38	36	34
Community	254564	52	71	54	57	51	44	74	68	74	86	84
Community	254592	52	71	48	50	44	38	73	68	74	57	56
Community	260123	52	70	47	50	44	38	71	66	72	94	93
Community	261738	52	51	38	41	35	29	54	49	57	51	49
Community	262035	52	54	51	53	48	41	57	51	60	61	60
Community	318994	52	37	24	27	21	<20	41	35	43	24	21
Community	319762	52	41	23	26	<20	<20	44	38	46	20	<20
Community	320847	52	33	39	41	35	30	37	31	39	35	34
Community	320888	52	31	37	40	34	28	35	29	37	34	32
Community	321378	52	30	35	37	32	27	35	29	36	32	30
Community	321739	52	32	23	26	<20	<20	37	31	38	30	28
Community	321765	52	31	34	37	31	27	35	30	37	33	31
Community	321787	52	30	35	38	32	27	34	28	35	33	31
Community	322109	52	30	36	38	32	27	34	28	35	32	30
Community	322541	52	26	32	35	29	24	31	25	32	29	27
Community	322790	52	61	53	56	50	43	64	58	64	57	56
Community	323481	52	31	37	39	33	28	35	29	37	34	32
Community	323677	52	29	34	37	31	26	33	27	35	31	29
Community	323764	52	31	35	38	32	27	36	30	36	34	32
Community	323776	52	29	35	38	31	26	33	28	35	32	30
Community	323861	52	34	40	42	36	31	38	33	40	37	35
Community	323863	52	35	40	43	37	31	39	33	41	37	35
Community	2008434	52	35	40	43	37	31	38	32	41	37	35
Educational	254515		54	48	51	47	39	57	51	60	55	53
Educational	254527		55	49	51	45	39	58	52	61	55	53
Educational	261749		64	49	52	47	40	66	61	68	58	56
Educational	261795		64	51	54	48	41	66	61	68	56	54
Educational	261821		60	49	52	46	39	63	58	66	56	54
Educational	261823		60	44	47	42	37	63	57	66	54	52
Educational	261831		59	46	49	44	39	61	56	63	55	53
Educational	320693		33	<20	23	<20	<20	37	31	39	30	28
Educational	320726		34	<20	23	<20	<20	38	32	40	33	31
Educational	320741		36	23	26	<20	<20	40	34	42	34	33
Educational	320763		33	21	24	<20	<20	37	31	39	29	27
Educational	320848		30	36	39	32	27	34	28	36	32	31
Educational	320893		28	34	37	31	26	33	27	34	31	29
Educational	320894		30	36	38	32	27	34	28	36	33	31
Educational	320958		27	27	30	26	24	32	26	33	29	27
Educational	321057		35	33	36	31	27	39	33	41	37	35
Educational	321060		35	38	41	34	29	39	34	41	37	36

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Educational	321289		35	31	34	27	23	39	33	41	37	35
Educational	321588		36	38	40	34	29	40	34	42	38	36
Educational	321643		36	23	26	23	21	40	35	42	37	35
Educational	321670		34	23	26	21	21	38	32	40	36	35
Educational	321774		31	36	38	32	27	35	29	37	33	31
Educational	321913		29	35	38	32	27	34	28	35	32	30
Educational	322099		25	29	32	27	23	30	24	30	28	26
Educational	322113		30	31	34	28	25	34	28	35	31	29
Educational	322378		28	31	33	27	23	32	26	33	29	27
Educational	322379		28	34	36	30	26	32	27	34	30	29
Educational	322428		28	33	36	30	25	32	27	33	30	28
Educational	322576		32	37	40	34	29	36	30	37	35	33
Educational	322664		30	32	35	29	25	34	28	36	31	29
Educational	322813		36	23	26	21	<20	40	34	41	36	34
Educational	322848		31	35	38	32	28	35	29	37	33	31
Educational	323514		29	35	38	32	27	33	28	35	33	31
Educational	323537		29	32	34	28	24	34	28	35	30	28
Educational	323889		36	38	41	34	29	39	34	41	37	36
Educational	323890		35	37	40	34	28	39	34	41	37	36
Educational	2008433		31	37	39	33	29	35	30	37	33	31
Emergency Services	254513	52	52	43	45	42	36	55	49	58	57	55
Emergency Services	260154	52	72	54	56	51	44	75	69	76	88	87
Emergency Services	321427	52	40	43	46	43	37	44	38	46	41	39
Emergency Services	321668	52	34	22	25	<20	<20	38	32	40	35	33
Emergency Services	322165	52	43	47	49	44	37	47	41	49	44	42
Emergency Services	322315	52	32	36	39	33	28	36	31	38	34	33
Emergency Services	322474	52	44	35	37	31	27	47	42	50	51	49
Emergency Services	322658	52	32	38	41	35	29	36	31	38	36	34
Emergency Services	323479	52	31	36	39	32	27	35	29	37	33	31
Emergency Services	323807	52	43	48	51	45	38	47	41	49	45	44
Emergency Services	323874	52	31	37	40	33	28	35	30	37	35	33
Office	254574		74	53	56	50	43	77	71	75	84	82
Office	254852		36	38	41	34	30	40	34	42	39	37
Office	254858		33	37	39	33	29	37	31	39	36	34
Office	256773		38	31	34	28	25	41	36	44	<20	<20
Office	256806		34	33	36	30	27	38	32	40	22	<20
Office	261287		69	36	39	33	29	71	66	68	41	39
Office	261321		67	34	37	31	27	69	64	67	42	41
Office	261639		60	40	43	37	32	62	57	65	64	63
Office	261890		54	43	46	43	37	57	51	60	59	58
Office	320887		31	36	39	35	31	35	30	36	33	31
Office	320979		38	42	45	38	33	42	36	43	38	37
Office	320981		39	43	45	39	34	43	37	45	39	37
Office	321251		32	38	41	34	29	36	31	38	35	34
Office	321428		31	34	36	31	27	35	29	37	33	31
Office	321459		32	38	41	34	29	36	31	38	35	33

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Office	321461		32	31	34	28	24	37	31	38	34	32
Office	321463		33	39	42	36	33	37	32	39	37	35
Office	321619		37	39	41	38	33	41	35	43	36	34
Office	321620		30	34	37	30	26	34	29	35	32	30
Office	321812		34	39	41	35	30	38	33	39	37	35
Office	321816		39	42	44	39	33	42	37	44	38	37
Office	321939		38	43	46	40	34	41	36	44	40	38
Office	322010		32	37	40	34	28	36	30	38	35	33
Office	322240		34	38	41	35	30	38	32	40	36	34
Office	322427		35	39	42	36	30	39	33	41	37	35
Office	322441		37	41	44	38	32	41	35	43	38	36
Office	322442		35	37	40	34	30	39	34	41	35	33
Office	322504		42	37	40	33	29	46	40	48	47	45
Office	322505		38	41	44	38	33	42	37	44	38	36
Office	322718		38	43	46	40	34	41	36	44	40	38
Office	322867		31	33	36	30	25	35	30	37	35	33
Office	323410		33	39	41	35	29	37	31	39	35	33
Office	323422		36	40	42	38	32	40	34	42	36	35
Office	323427		39	31	34	27	24	43	37	45	44	42
Office	323431		33	38	41	35	29	37	31	38	35	33
Office	323434		51	55	58	53	45	54	48	56	53	52
Office	323633		33	38	41	35	29	37	31	38	35	33
Office	323634		32	38	40	34	29	36	30	38	34	32
Office	323657		45	50	53	47	40	48	43	51	47	46
Office	323660		30	35	38	32	27	34	29	36	33	31
Parkland	261544		65	44	46	41	35	68	62	69	60	58
Parkland	321558		33	38	41	35	29	37	31	38	35	33
Parkland	322402		37	41	44	39	32	41	36	44	39	37
Parkland	322480		33	39	41	35	30	37	31	39	36	34
Parkland	322939		37	40	43	37	32	41	35	43	37	36
Parkland	2008440		30	35	37	32	27	34	28	35	32	30
Parkland	2008441		25	30	34	27	24	30	24	31	28	26
Parkland	2008442		30	35	38	32	27	34	28	35	32	30
Parkland	2008443		28	34	37	31	26	33	27	34	31	29
Parkland	2008444		28	33	36	30	26	32	26	34	30	28
Parkland	2008445		52	43	46	45	38	55	49	58	48	46
Parkland	2008446		67	45	47	42	36	70	64	70	66	64
Parkland	2008447		52	43	46	40	35	53	48	57	54	52
Parkland	2008448		46	40	43	37	32	49	44	52	58	57
Parkland	2008449		29	35	38	32	28	34	28	36	36	34
Parkland	2008450		30	36	39	33	28	35	29	36	33	31
Parkland	2008451		33	21	24	<20	<20	37	31	39	35	33
Residential	254161	45	66	<20	<20	<20	<20	69	63	71	71	70
Residential	254164	45	73	<20	<20	<20	<20	67	62	69	73	72
Residential	254168	45	71	<20	<20	<20	<20	72	66	73	85	83
Residential	254170	45	68	<20	<20	<20	<20	69	63	71	76	75

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	254179	45	63	<20	<20	<20	<20	65	59	68	69	67
Residential	254181	45	61	<20	<20	<20	<20	64	59	67	67	66
Residential	254188	45	50	26	29	23	22	53	47	56	43	41
Residential	254193	45	49	<20	<20	<20	<20	52	47	56	52	51
Residential	254219	45	46	<20	<20	<20	<20	49	43	52	48	47
Residential	254221	45	44	25	27	22	21	47	42	51	41	40
Residential	254250	45	82	<20	<20	<20	<20	83	77	77	88	86
Residential	254255	45	53	<20	<20	<20	<20	56	51	59	56	55
Residential	254261	45	32	<20	<20	<20	<20	35	30	38	30	28
Residential	254276	45	61	<20	21	<20	<20	64	58	67	69	67
Residential	254282	45	42	43	45	42	36	45	40	48	48	46
Residential	254290	45	43	45	48	41	35	47	41	50	47	45
Residential	254295	45	30	<20	21	<20	<20	34	28	36	33	31
Residential	254300	45	45	51	53	48	41	48	43	51	48	47
Residential	254307	45	43	45	47	41	35	47	41	50	48	46
Residential	254308	45	46	51	53	48	41	49	43	52	52	51
Residential	254312	45	41	44	47	41	34	45	40	46	49	48
Residential	254313	45	46	51	53	48	41	49	43	52	54	52
Residential	254314	45	43	41	44	39	34	46	40	49	50	48
Residential	254315	45	46	47	49	45	39	49	43	52	54	52
Residential	254318	45	37	30	34	29	25	41	36	44	41	40
Residential	254319	45	47	52	55	49	42	50	45	53	55	53
Residential	254320	45	47	52	54	49	42	50	44	53	54	52
Residential	254324	45	47	51	54	48	41	50	44	52	55	53
Residential	254325	45	30	<20	23	<20	<20	35	30	37	34	32
Residential	254332	45	47	48	51	45	37	50	44	53	55	54
Residential	254336	45	30	<20	23	<20	<20	34	29	36	34	32
Residential	254340	45	49	54	56	51	43	52	46	55	57	56
Residential	254344	45	49	53	56	50	43	52	46	55	57	55
Residential	254346	45	48	53	55	50	43	51	46	54	56	55
Residential	254347	45	62	39	42	36	31	64	59	67	68	66
Residential	254348	45	48	53	55	50	42	51	46	54	58	57
Residential	254354	45	45	47	50	46	38	49	43	51	51	49
Residential	254357	45	46	43	46	43	37	49	44	51	48	46
Residential	254358	45	48	46	49	46	39	51	45	54	58	57
Residential	254361	45	45	46	49	46	39	48	43	51	51	49
Residential	254365	45	45	46	49	45	37	49	43	51	50	49
Residential	254367	45	47	44	46	43	36	50	44	53	50	48
Residential	254369	45	49	50	52	46	39	53	47	56	61	60
Residential	254370	45	45	45	48	42	36	48	43	52	51	50
Residential	254372	45	45	43	46	41	35	48	42	50	49	47
Residential	254376	45	51	55	57	52	45	54	48	57	62	60
Residential	254377	45	47	43	46	40	34	50	44	53	49	48
Residential	254378	45	48	45	48	42	38	51	45	54	52	50
Residential	254381	45	47	43	45	39	36	50	44	53	51	49
Residential	254383	45	47	42	45	39	33	50	45	54	51	50

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	254384	45	50	49	52	47	40	53	48	56	64	62
Residential	254387	45	44	39	42	36	33	46	40	49	51	49
Residential	254388	45	48	48	51	45	38	52	46	54	57	56
Residential	254389	45	48	44	47	42	37	51	46	54	49	48
Residential	254391	45	47	44	46	41	35	51	45	54	49	47
Residential	254396	45	49	52	55	49	42	52	46	55	61	59
Residential	254400	45	50	53	55	50	43	53	47	56	64	62
Residential	254401	45	47	42	45	39	33	50	45	53	53	51
Residential	254402	45	48	49	52	46	39	51	46	53	58	56
Residential	254403	45	51	52	55	49	42	54	48	57	66	64
Residential	254404	45	48	42	45	39	33	51	45	54	52	51
Residential	254406	45	49	47	50	46	37	51	45	55	55	53
Residential	254408	45	47	43	46	40	36	50	45	54	50	48
Residential	254410	45	48	43	46	40	34	51	46	54	51	49
Residential	254411	45	48	43	46	41	35	51	45	54	51	50
Residential	254412	45	52	55	58	53	45	55	49	58	65	64
Residential	254419	45	48	43	45	40	35	51	46	55	52	50
Residential	254421	45	52	54	57	52	44	55	49	58	69	68
Residential	254422	45	50	46	49	44	39	53	47	56	53	51
Residential	254425	45	48	43	46	41	35	52	46	55	53	52
Residential	254427	45	48	42	45	42	36	52	46	54	53	52
Residential	254431	45	49	45	48	44	38	53	47	56	50	48
Residential	254433	45	52	53	56	51	43	55	49	58	71	69
Residential	254437	45	50	53	55	50	43	53	47	56	67	66
Residential	254438	45	49	46	49	46	38	52	47	54	53	51
Residential	254440	45	46	47	49	44	39	49	43	54	55	53
Residential	254441	45	49	48	51	45	38	53	47	56	65	64
Residential	254442	45	49	44	47	41	38	52	47	55	51	50
Residential	254444	45	51	48	51	45	38	54	48	58	62	61
Residential	254446	45	51	40	43	38	35	53	48	57	57	55
Residential	254448	45	51	47	50	44	37	55	49	58	58	57
Residential	254449	45	52	47	50	44	37	55	49	58	60	59
Residential	254453	45	54	53	56	50	43	57	51	60	84	83
Residential	254456	45	50	48	51	45	39	54	48	57	55	53
Residential	254458	45	53	54	56	51	43	56	50	59	70	69
Residential	254460	45	50	42	45	42	35	53	47	56	56	54
Residential	254462	45	53	50	53	47	40	55	50	58	67	65
Residential	254463	45	52	51	54	48	41	55	49	58	64	62
Residential	254465	45	50	42	45	39	34	53	48	56	57	55
Residential	254468	45	50	42	44	39	33	53	48	56	57	56
Residential	254469	45	52	46	48	44	38	54	49	58	53	52
Residential	254470	45	54	53	55	50	42	57	51	60	63	61
Residential	254476	45	57	58	61	56	48	60	54	63	88	86
Residential	254478	45	49	41	44	38	33	52	46	55	58	57
Residential	254484	45	50	41	44	38	32	53	47	56	61	59
Residential	254486	45	52	44	47	41	34	55	49	58	53	51

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	254487	45	50	41	44	38	32	53	47	56	60	58
Residential	254490	45	53	47	50	44	40	56	51	59	57	56
Residential	254492	45	52	44	47	43	37	55	49	58	53	51
Residential	254493	45	49	40	43	37	32	52	47	56	62	60
Residential	254494	45	54	52	54	49	42	56	51	60	62	60
Residential	254499	45	50	41	44	38	34	54	48	57	59	58
Residential	254500	45	52	43	46	40	34	55	49	58	54	53
Residential	254501	45	50	40	43	38	33	53	47	56	66	65
Residential	254502	45	57	56	58	53	46	60	54	62	94	92
Residential	254507	45	55	49	52	47	40	58	52	61	58	57
Residential	254508	45	57	55	57	52	44	58	53	62	69	68
Residential	254516	45	52	43	45	42	36	55	50	58	58	56
Residential	254517	45	57	54	56	51	44	59	54	62	65	64
Residential	254521	45	52	42	44	41	35	55	49	58	58	57
Residential	254524	45	57	53	55	50	43	59	54	62	61	59
Residential	254526	45	52	42	44	41	35	55	50	58	59	58
Residential	254529	45	52	42	45	40	34	55	49	58	61	59
Residential	254531	45	52	43	46	40	34	55	49	58	62	61
Residential	254532	45	57	52	54	49	42	60	54	62	59	58
Residential	254533	45	57	47	50	44	39	59	53	63	59	58
Residential	254534	45	61	56	59	54	46	63	58	66	91	89
Residential	254535	45	54	46	49	43	36	57	51	60	55	53
Residential	254536	45	60	56	59	53	46	63	58	66	76	75
Residential	254537	45	52	43	45	40	34	55	49	58	66	65
Residential	254539	45	60	52	55	48	40	63	57	66	71	69
Residential	254540	45	61	52	55	50	42	64	58	66	67	65
Residential	254542	45	60	47	50	44	39	63	57	66	65	64
Residential	254546	45	61	53	56	50	42	63	58	66	65	63
Residential	254549	45	61	53	55	50	43	63	58	66	65	63
Residential	254550	45	60	53	55	50	43	62	57	66	63	62
Residential	254551	45	67	56	59	54	46	70	64	71	85	84
Residential	254558	45	71	56	58	53	46	73	67	74	90	88
Residential	254559	45	71	56	58	53	46	74	68	74	88	87
Residential	254560	45	58	47	50	45	38	61	55	65	56	54
Residential	254562	45	72	55	58	52	45	75	70	75	96	94
Residential	254565	45	72	55	57	52	44	75	70	75	100	98
Residential	254568	45	62	50	52	47	40	63	57	66	53	51
Residential	254571	45	61	46	49	43	37	63	58	66	56	55
Residential	254573	45	61	48	51	45	39	64	58	66	54	52
Residential	254578	45	61	47	50	44	38	64	58	66	59	57
Residential	254587	45	61	44	46	41	35	63	58	66	65	64
Residential	254589	45	71	47	50	44	37	73	68	74	58	56
Residential	254594	45	61	41	44	38	32	64	58	66	72	70
Residential	254595	45	72	50	52	47	40	74	69	74	57	55
Residential	254598	45	71	49	51	46	39	74	68	74	56	54
Residential	254601	45	62	43	45	39	34	65	60	67	70	68

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	254603	45	72	49	51	45	39	75	69	74	56	55
Residential	254609	45	84	53	56	50	43	83	77	85	74	73
Residential	254612	45	68	52	55	50	42	71	65	73	79	78
Residential	254614	45	79	49	52	46	39	85	79	84	59	58
Residential	254628	45	63	48	50	45	38	66	60	69	58	56
Residential	254635	45	65	46	48	42	36	68	63	71	69	68
Residential	254640	45	35	32	35	29	26	39	33	41	37	36
Residential	254656	45	43	<20	<20	<20	<20	46	41	49	23	21
Residential	254657	45	30	<20	<20	<20	<20	34	28	36	35	33
Residential	254661	45	58	<20	<20	<20	<20	60	55	62	28	26
Residential	254675	45	38	<20	<20	<20	<20	41	36	44	24	22
Residential	254681	45	36	<20	<20	<20	<20	40	34	42	27	25
Residential	254682	45	35	<20	<20	<20	<20	38	33	41	28	25
Residential	254683	45	34	<20	<20	<20	<20	38	33	40	28	26
Residential	254689	45	35	<20	<20	<20	<20	39	33	41	28	26
Residential	254690	45	35	<20	<20	<20	<20	38	33	41	28	26
Residential	254691	45	35	<20	<20	<20	<20	39	33	41	28	26
Residential	254705	45	36	<20	<20	<20	<20	40	34	42	41	39
Residential	254714	45	38	<20	<20	<20	<20	42	36	44	40	39
Residential	254717	45	40	<20	<20	<20	<20	43	38	46	41	39
Residential	254719	45	33	24	28	22	<20	37	32	39	31	29
Residential	254720	45	34	24	28	22	<20	38	32	40	31	29
Residential	254728	45	42	25	28	22	<20	45	39	48	36	35
Residential	254730	45	43	25	28	22	<20	46	40	49	36	35
Residential	254731	45	38	26	30	23	20	41	36	44	32	30
Residential	254736	45	37	27	30	24	21	40	35	43	29	27
Residential	254745	45	38	39	42	36	31	41	36	44	30	28
Residential	254747	45	39	44	47	41	35	42	37	45	30	28
Residential	254755	45	32	36	38	32	28	36	31	38	35	34
Residential	254757	45	38	42	45	38	33	41	36	44	38	36
Residential	254762	45	33	36	38	32	28	36	31	38	36	35
Residential	254769	45	37	40	42	36	31	41	35	43	40	38
Residential	254783	45	40	43	45	39	34	44	38	47	41	39
Residential	254787	45	53	54	57	51	44	56	50	58	37	35
Residential	254790	45	51	52	54	49	42	54	48	57	37	36
Residential	254808	45	37	42	44	38	33	41	35	43	40	39
Residential	254810	45	30	33	35	32	28	35	29	36	32	31
Residential	254817	45	30	33	36	34	29	35	29	36	33	31
Residential	254828	45	59	47	49	44	37	62	57	65	64	62
Residential	254837	45	31	29	32	25	22	35	30	37	26	23
Residential	254892	45	32	31	34	28	24	36	30	38	33	32
Residential	254987	45	41	34	37	31	26	44	39	48	36	34
Residential	255054	45	37	36	39	33	28	40	35	43	41	39
Residential	255080	45	39	36	39	33	32	39	33	41	43	41
Residential	255091	45	31	31	33	27	23	35	30	37	33	32
Residential	255093	45	31	30	32	26	23	36	30	37	34	32

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	255097	45	32	31	33	27	23	36	31	38	34	33
Residential	255114	45	31	33	36	30	26	35	29	36	35	33
Residential	255143	45	37	31	34	28	24	41	35	43	33	32
Residential	255156	45	32	36	38	32	28	36	30	38	35	33
Residential	255158	45	32	36	39	33	28	36	31	38	36	34
Residential	255159	45	40	37	40	34	29	43	37	45	35	34
Residential	255192	45	30	35	38	32	28	34	29	36	34	32
Residential	255220	45	30	29	31	26	23	34	29	36	30	28
Residential	255223	45	33	33	36	30	26	37	31	39	35	33
Residential	255238	45	36	24	27	21	20	39	34	42	37	35
Residential	255240	45	37	24	27	22	20	40	35	43	38	36
Residential	255248	45	41	45	48	42	36	44	39	47	38	37
Residential	255277	45	47	<20	<20	<20	<20	48	42	51	44	42
Residential	255295	45	35	<20	<20	<20	<20	39	33	41	38	37
Residential	255307	45	31	<20	<20	<20	<20	35	30	37	34	32
Residential	255309	45	31	<20	<20	<20	<20	35	29	37	33	31
Residential	255318	45	54	49	52	47	40	57	51	59	44	43
Residential	255333	45	56	58	61	56	48	59	53	61	39	38
Residential	255336	45	47	51	54	49	42	50	44	52	35	33
Residential	255346	45	71	44	47	41	36	70	64	68	30	28
Residential	255349	45	47	52	54	49	42	50	44	53	41	40
Residential	255350	45	60	62	65	61	53	62	57	64	43	42
Residential	255357	45	57	60	63	59	51	60	54	62	38	36
Residential	255377	45	40	46	48	43	36	44	38	46	42	41
Residential	255387	45	46	49	52	47	40	49	43	52	48	46
Residential	255388	45	46	50	52	47	40	49	44	53	48	46
Residential	255394	45	47	47	49	44	37	50	45	53	45	44
Residential	255395	45	34	36	39	33	29	38	33	41	34	33
Residential	255396	45	37	41	43	37	32	40	35	43	38	36
Residential	255402	45	32	33	36	30	26	36	31	39	35	33
Residential	255406	45	31	35	37	32	28	35	30	37	32	30
Residential	255412	45	36	36	39	33	29	38	33	41	38	36
Residential	255433	45	52	45	47	42	36	55	49	58	52	50
Residential	255453	45	41	45	48	42	36	45	39	47	42	40
Residential	255455	45	43	46	49	43	37	46	41	49	44	42
Residential	255487	45	44	32	35	29	26	47	41	50	45	44
Residential	255511	45	59	22	26	24	22	49	43	52	63	61
Residential	255514	45	53	21	25	23	21	56	50	58	54	53
Residential	255518	45	30	<20	23	<20	<20	34	29	36	30	28
Residential	255520	45	30	<20	24	<20	<20	34	29	36	30	28
Residential	255558	45	32	<20	<20	<20	<20	36	30	38	26	24
Residential	255595	45	41	21	24	<20	<20	43	37	46	43	41
Residential	255601	45	42	23	27	20	<20	42	36	45	44	42
Residential	255603	45	47	30	33	27	23	50	44	53	45	44
Residential	255605	45	47	31	34	28	24	50	45	53	47	45
Residential	255617	45	35	31	34	28	25	38	33	41	37	35

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	255620	45	28	30	34	31	28	32	27	34	29	27
Residential	255621	45	28	31	34	28	24	32	27	34	29	27
Residential	255630	45	43	45	48	42	36	46	40	49	34	32
Residential	255640	45	31	35	38	32	28	36	30	37	33	31
Residential	255641	45	43	48	50	45	38	46	41	49	32	30
Residential	255691	45	50	53	56	50	43	53	47	56	54	52
Residential	255776	45	51	33	36	30	26	54	49	57	54	52
Residential	255777	45	51	32	35	29	26	54	48	56	54	52
Residential	255835	45	38	22	26	<20	22	40	35	43	40	38
Residential	255861	45	37	22	25	22	20	39	34	42	39	37
Residential	255865	45	36	22	25	<20	<20	39	33	41	38	36
Residential	255892	45	34	26	29	22	<20	38	33	40	36	34
Residential	255934	45	57	42	44	38	33	59	53	60	47	45
Residential	255984	45	50	47	49	43	37	53	47	56	57	55
Residential	256012	45	31	33	37	30	26	35	30	37	33	30
Residential	256019	45	67	67	69	66	57	70	65	68	73	72
Residential	256048	45	40	42	44	39	33	44	38	46	38	37
Residential	256057	45	47	41	43	37	32	50	45	53	40	38
Residential	256166	45	58	62	64	60	52	61	56	63	62	61
Residential	256191	45	56	51	53	48	41	59	53	61	50	48
Residential	256192	45	57	50	53	47	40	59	54	61	49	47
Residential	256213	45	49	53	56	51	43	52	46	55	53	51
Residential	256248	45	57	60	63	58	50	60	54	61	67	66
Residential	256284	45	35	42	44	38	33	39	34	42	50	49
Residential	256289	45	38	44	46	41	35	42	36	44	44	43
Residential	256408	45	38	25	28	22	21	42	36	44	22	20
Residential	256574	45	37	30	32	27	24	40	35	43	<20	<20
Residential	256709	45	34	40	43	37	32	38	33	40	39	37
Residential	256813	45	37	35	37	31	28	41	35	43	24	21
Residential	256817	45	43	48	51	45	38	46	41	49	46	44
Residential	256879	45	34	36	39	33	28	36	31	38	41	39
Residential	256882	45	35	36	38	33	28	37	31	39	41	39
Residential	256926	45	36	38	41	35	31	40	34	42	29	27
Residential	256951	45	34	37	40	34	29	38	32	40	28	26
Residential	257009	45	34	39	42	36	31	37	32	40	41	39
Residential	257028	45	47	45	48	42	36	49	43	52	57	55
Residential	257039	45	33	38	40	34	30	36	31	38	39	37
Residential	257046	45	45	45	48	42	36	48	43	51	55	54
Residential	257128	45	32	36	39	33	29	35	29	37	39	37
Residential	259291	45	41	47	50	44	38	45	39	48	30	28
Residential	259381	45	37	42	45	39	34	40	35	43	28	25
Residential	259957	45	40	44	47	41	35	44	38	46	35	34
Residential	260029	45	42	41	43	37	32	45	40	48	41	39
Residential	260058	45	70	45	47	41	36	73	67	74	77	76
Residential	260067	45	71	46	49	43	37	67	62	70	78	76
Residential	260069	45	44	39	42	36	31	47	41	50	46	44

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	260119	45	62	47	50	44	38	62	56	65	86	84
Residential	260150	45	58	56	59	54	46	60	54	63	63	62
Residential	260165	45	57	47	50	44	38	59	53	62	68	67
Residential	260169	45	65	44	47	42	37	67	61	68	82	81
Residential	260170	45	63	57	60	55	47	64	59	67	73	71
Residential	260189	45	66	51	53	48	41	68	63	70	71	69
Residential	260213	45	69	53	56	51	43	71	66	73	71	69
Residential	260446	45	43	47	49	44	37	47	41	50	46	44
Residential	260528	45	64	66	68	65	56	67	61	67	42	40
Residential	260630	45	35	41	44	38	32	39	33	41	37	36
Residential	260789	45	30	36	38	32	28	34	28	36	33	31
Residential	260930	45	54	54	56	51	43	56	51	59	56	55
Residential	261084	45	65	45	47	42	36	67	62	67	64	63
Residential	261368	45	67	44	47	41	35	70	64	67	75	73
Residential	261386	45	66	46	48	43	36	69	63	66	76	74
Residential	261419	45	37	39	42	36	31	41	35	43	42	40
Residential	261452	45	62	40	43	37	32	64	59	65	49	48
Residential	261465	45	58	36	38	32	27	60	55	62	47	46
Residential	261493	45	66	43	46	40	34	68	63	69	57	56
Residential	261535	45	58	36	39	34	29	61	55	63	51	50
Residential	261542	45	32	27	30	24	22	36	31	38	28	26
Residential	261572	45	59	42	44	38	33	62	56	65	56	54
Residential	261608	45	56	38	41	35	30	59	54	62	54	53
Residential	261613	45	54	38	41	35	29	57	52	60	51	50
Residential	261633	45	33	30	33	27	24	37	32	39	31	29
Residential	261638	45	59	40	43	37	31	62	56	65	62	60
Residential	261649	45	57	39	42	37	32	60	55	63	58	56
Residential	261661	45	56	39	42	38	33	59	53	62	56	54
Residential	261665	45	60	41	44	38	32	63	57	65	74	73
Residential	261686	45	63	43	46	40	34	66	60	67	82	80
Residential	261713	45	56	40	43	38	33	59	53	62	63	61
Residential	261717	45	60	43	46	43	36	63	57	65	76	74
Residential	261720	45	63	44	47	41	35	66	60	67	65	63
Residential	261729	45	64	49	51	46	39	67	61	68	62	60
Residential	261739	45	64	49	52	46	40	67	61	68	60	59
Residential	261781	45	55	42	45	41	35	58	52	61	62	61
Residential	261786	45	54	38	41	37	31	57	51	60	60	59
Residential	261802	45	57	44	46	43	36	60	55	63	65	64
Residential	261806	45	53	40	44	38	32	56	50	59	58	56
Residential	261855	45	50	38	41	37	32	53	47	56	52	50
Residential	261888	45	53	42	45	41	35	55	50	58	59	57
Residential	261892	45	50	39	42	36	31	52	47	56	53	51
Residential	261908	45	66	54	57	52	44	68	63	69	58	57
Residential	261910	45	50	45	47	42	36	53	48	57	51	49
Residential	261913	45	50	44	47	41	35	53	47	56	47	45
Residential	261927	45	50	44	47	41	35	53	47	56	49	48

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	261958	45	39	34	37	31	27	43	37	45	36	34
Residential	261969	45	64	54	57	51	44	66	61	68	62	61
Residential	261999	45	33	27	30	24	22	37	31	39	32	30
Residential	262034	45	50	47	50	44	38	53	47	56	56	54
Residential	262063	45	51	49	52	46	39	54	48	57	61	59
Residential	262104	45	50	49	51	46	39	53	47	56	63	62
Residential	262181	45	49	49	52	46	40	52	46	55	72	71
Residential	262211	45	43	39	42	36	32	46	40	49	45	43
Residential	262286	45	48	51	53	48	41	51	46	54	82	80
Residential	263137	45	40	44	46	41	35	43	38	46	42	40
Residential	263676	45	37	39	42	36	31	40	35	43	36	35
Residential	263929	45	33	36	39	33	29	37	32	40	34	32
Residential	314565	45	35	41	43	37	32	39	33	41	38	36
Residential	314594	45	35	35	38	32	28	39	34	41	39	37
Residential	314600	45	35	35	38	32	28	39	33	41	38	37
Residential	314629	45	36	35	38	32	28	39	34	42	39	37
Residential	314940	45	40	37	40	34	29	43	38	46	44	42
Residential	315063	45	43	48	50	45	38	46	40	48	44	43
Residential	315138	45	67	52	55	49	42	66	60	67	50	48
Residential	315139	45	70	52	55	49	42	68	62	69	50	48
Residential	315262	45	60	35	38	32	28	62	56	65	53	52
Residential	315302	45	58	37	40	34	30	61	56	63	74	73
Residential	315314	45	42	45	47	42	36	45	40	47	42	40
Residential	316186	45	39	44	47	41	35	43	37	45	40	39
Residential	316281	45	33	33	36	33	29	36	31	39	33	31
Residential	316291	45	32	35	38	32	27	36	31	37	32	30
Residential	316328	45	46	49	52	46	39	49	44	51	45	43
Residential	316394	45	43	35	38	32	28	47	41	49	44	43
Residential	316410	45	32	37	39	33	29	36	30	37	34	32
Residential	316470	45	40	33	35	29	25	43	38	46	39	38
Residential	316509	45	41	35	38	32	28	44	38	47	42	40
Residential	316523	45	40	34	36	30	26	43	38	45	40	38
Residential	316557	45	39	34	37	30	27	43	37	45	40	38
Residential	316558	45	39	36	38	32	28	43	37	45	42	40
Residential	316573	45	40	45	47	41	35	43	37	45	41	39
Residential	316600	45	40	45	47	41	35	43	38	45	41	39
Residential	316608	45	39	44	47	41	35	42	37	44	40	39
Residential	316612	45	37	33	36	30	26	41	35	43	39	38
Residential	316617	45	38	44	46	40	34	42	36	44	40	38
Residential	316621	45	39	44	47	41	35	43	37	44	40	38
Residential	316622	45	39	44	46	41	35	42	37	44	40	38
Residential	316637	45	38	44	46	40	34	42	36	44	39	38
Residential	316641	45	38	43	46	40	34	41	36	43	39	38
Residential	316648	45	38	39	42	36	31	42	36	44	40	38
Residential	316649	45	37	43	46	40	34	42	36	43	40	38
Residential	316659	45	38	44	46	40	34	42	36	43	39	37

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	316673	45	37	43	46	40	34	41	35	43	39	38
Residential	316675	45	37	43	45	39	34	41	35	43	39	38
Residential	316677	45	38	43	46	40	34	42	36	44	39	38
Residential	316695	45	37	43	46	40	34	41	36	43	38	37
Residential	316710	45	36	42	44	38	32	41	35	43	37	35
Residential	316712	45	37	43	45	39	34	41	35	42	39	37
Residential	316713	45	37	43	45	39	34	41	35	42	39	38
Residential	316716	45	35	40	43	37	31	40	34	42	36	34
Residential	316717	45	38	40	43	37	31	42	36	44	40	38
Residential	316720	45	36	42	45	39	33	40	35	42	39	37
Residential	316722	45	35	41	43	38	31	38	33	41	37	35
Residential	316724	45	36	42	44	38	33	40	34	41	38	37
Residential	316726	45	36	41	43	37	32	39	34	41	35	33
Residential	316734	45	37	42	45	39	33	40	35	42	38	36
Residential	316738	45	37	39	41	35	30	40	35	43	39	37
Residential	316739	45	36	42	44	38	33	40	34	42	38	36
Residential	316746	45	36	42	44	38	33	40	34	41	38	37
Residential	316747	45	34	41	43	37	31	38	32	40	37	35
Residential	316756	45	35	41	44	38	32	39	34	41	38	36
Residential	316762	45	36	40	43	37	31	39	34	42	36	34
Residential	316763	45	37	40	43	37	32	41	36	43	39	38
Residential	316764	45	35	40	42	36	31	39	33	40	36	34
Residential	316770	45	35	41	44	38	32	39	33	41	38	36
Residential	316772	45	35	41	44	38	32	39	34	41	38	36
Residential	316776	45	34	40	42	37	31	37	32	40	36	34
Residential	316778	45	35	42	44	38	32	39	33	41	38	36
Residential	316781	45	36	41	43	37	31	40	34	42	34	32
Residential	316787	45	35	41	43	37	32	39	33	41	37	36
Residential	316793	45	34	39	41	36	30	38	32	39	37	36
Residential	316797	45	35	41	43	37	32	39	33	40	37	36
Residential	316800	45	33	37	40	35	30	37	31	39	34	32
Residential	316811	45	35	41	43	37	32	38	33	40	37	35
Residential	316815	45	35	41	44	38	32	39	33	40	37	36
Residential	316820	45	36	39	42	36	31	39	34	42	34	32
Residential	316821	45	35	41	43	38	31	39	33	41	37	35
Residential	316823	45	34	40	43	37	32	38	33	40	37	35
Residential	316825	45	34	41	43	37	31	38	32	40	37	35
Residential	316826	45	33	36	39	35	30	37	31	38	33	32
Residential	316831	45	35	41	43	37	32	39	33	40	35	33
Residential	316833	45	34	39	41	35	30	38	32	39	36	34
Residential	316846	45	35	41	43	37	32	39	33	40	37	35
Residential	316848	45	35	39	42	36	31	39	33	41	34	32
Residential	316849	45	35	35	37	31	27	39	34	41	38	36
Residential	316860	45	34	39	42	36	31	38	32	39	35	34
Residential	316861	45	34	40	43	37	31	38	33	40	36	35
Residential	316862	45	32	39	41	35	30	36	31	38	35	34

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	316866	45	34	40	43	37	32	38	32	40	35	33
Residential	316869	45	34	39	42	36	31	37	32	39	36	34
Residential	316877	45	34	40	42	37	30	37	31	40	36	34
Residential	316878	45	33	39	42	36	31	37	32	39	36	34
Residential	316880	45	33	40	42	36	30	37	32	39	36	34
Residential	316889	45	33	38	41	35	30	37	32	39	33	31
Residential	316890	45	33	40	42	36	30	37	32	39	36	34
Residential	316902	45	35	41	43	37	31	39	34	41	36	35
Residential	316903	45	34	40	42	36	31	38	32	39	36	35
Residential	316907	45	32	38	40	33	29	36	31	38	34	32
Residential	316908	45	33	39	41	35	29	37	32	39	35	33
Residential	316914	45	34	40	42	36	31	38	32	39	37	35
Residential	316915	45	33	38	41	35	29	37	32	39	35	33
Residential	316916	45	33	39	42	35	30	37	31	37	33	31
Residential	316917	45	33	39	41	36	31	37	31	38	35	34
Residential	316920	45	35	41	43	37	31	38	33	40	36	35
Residential	316924	45	33	39	41	35	31	37	32	39	34	32
Residential	316926	45	33	39	42	35	29	37	32	39	35	33
Residential	316927	45	33	40	42	36	30	37	31	39	35	34
Residential	316929	45	33	40	42	36	30	37	31	38	35	33
Residential	316930	45	33	39	42	36	31	37	32	39	36	34
Residential	316931	45	32	37	40	34	29	36	31	38	34	32
Residential	316938	45	33	38	41	35	30	37	31	38	33	32
Residential	316939	45	34	35	38	32	28	38	33	40	37	35
Residential	316942	45	32	38	41	35	30	36	31	38	35	33
Residential	316944	45	32	38	41	35	30	36	31	38	33	32
Residential	316948	45	30	37	40	33	29	35	29	36	33	32
Residential	316952	45	31	36	38	32	27	35	29	36	32	30
Residential	316953	45	33	40	42	36	30	37	31	38	35	33
Residential	316954	45	32	36	39	33	28	36	30	37	33	31
Residential	316957	45	34	40	42	36	30	38	33	40	35	33
Residential	316960	45	32	38	41	35	30	36	31	38	35	33
Residential	316962	45	32	24	28	21	<20	36	31	38	33	31
Residential	316963	45	33	38	40	35	29	37	31	38	33	32
Residential	316966	45	32	38	41	35	30	36	31	38	32	30
Residential	316970	45	32	38	40	35	30	36	31	38	35	33
Residential	316971	45	34	40	42	36	30	37	32	39	36	34
Residential	316973	45	30	37	39	33	29	34	29	36	33	31
Residential	316975	45	32	35	37	31	27	36	31	37	31	29
Residential	316976	45	34	40	43	37	31	38	32	40	36	34
Residential	316980	45	32	38	41	35	30	36	31	38	35	33
Residential	316982	45	32	38	41	35	29	36	30	38	35	33
Residential	316992	45	32	39	41	35	29	36	30	38	34	32
Residential	316993	45	32	37	40	33	29	36	30	37	33	31
Residential	316997	45	34	40	42	36	30	38	33	40	35	34
Residential	317002	45	33	39	41	35	29	37	31	39	36	34

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	317003	45	33	39	42	36	31	37	31	38	36	34
Residential	317005	45	32	38	41	35	30	36	31	38	34	33
Residential	317011	45	31	37	40	34	29	35	30	37	34	32
Residential	317013	45	32	38	40	34	29	36	30	37	34	32
Residential	317018	45	32	38	41	35	30	36	31	38	34	33
Residential	317021	45	32	37	40	34	29	36	30	37	34	32
Residential	317022	45	31	37	40	34	29	35	30	37	34	32
Residential	317024	45	32	38	41	35	30	36	31	38	35	33
Residential	317027	45	34	38	41	35	29	38	32	40	34	33
Residential	317030	45	28	34	37	30	26	32	27	34	31	29
Residential	317033	45	32	39	41	35	30	36	31	38	35	33
Residential	317035	45	33	36	39	33	28	37	31	38	33	31
Residential	317041	45	32	39	41	35	30	36	31	38	33	31
Residential	317042	45	28	34	36	30	25	32	26	33	30	29
Residential	317043	45	32	38	41	34	30	36	30	37	34	33
Residential	317044	45	29	34	37	30	26	34	29	35	31	29
Residential	317045	45	31	37	40	34	29	36	30	37	34	32
Residential	317046	45	31	37	40	34	29	35	29	36	33	31
Residential	317047	45	32	36	39	34	29	36	30	37	32	31
Residential	317060	45	31	37	39	33	29	35	30	37	32	31
Residential	317062	45	33	39	41	35	30	37	32	39	35	33
Residential	317063	45	33	39	42	35	29	37	31	38	35	34
Residential	317067	45	34	34	37	31	27	37	32	40	36	34
Residential	317068	45	32	37	39	33	28	36	31	38	33	31
Residential	317074	45	30	35	38	32	27	34	29	35	31	29
Residential	317077	45	31	37	39	34	29	36	30	37	34	32
Residential	317078	45	32	38	40	34	30	36	30	37	33	31
Residential	317079	45	31	37	39	33	28	35	29	36	34	32
Residential	317084	45	31	38	40	34	29	35	30	37	34	32
Residential	317090	45	32	39	41	35	29	36	31	38	34	33
Residential	317094	45	32	39	41	35	30	36	31	38	35	33
Residential	317096	45	30	36	39	33	28	34	29	36	31	29
Residential	317099	45	32	38	40	34	30	36	31	38	33	31
Residential	317100	45	30	36	39	32	28	34	28	35	30	29
Residential	317101	45	30	33	36	30	25	34	29	35	30	28
Residential	317102	45	31	37	40	34	28	35	30	36	34	32
Residential	317103	45	<20	<20	<20	<20	<20	23	<20	22	<20	<20
Residential	317104	45	32	39	41	35	30	36	30	38	35	33
Residential	317105	45	30	36	38	32	28	34	28	35	33	31
Residential	317107	45	31	37	40	34	29	35	30	37	34	32
Residential	317109	45	29	34	36	30	26	34	28	35	30	28
Residential	317110	45	<20	<20	23	<20	<20	23	<20	21	20	<20
Residential	317112	45	31	37	40	34	29	35	30	36	33	31
Residential	317118	45	31	37	39	33	29	35	30	36	33	31
Residential	317124	45	<20	<20	24	<20	<20	23	<20	23	20	<20
Residential	317131	45	32	38	41	34	30	36	30	37	33	32

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	317135	45	31	37	39	33	29	35	29	36	34	32
Residential	317136	45	31	37	40	34	28	35	30	36	34	32
Residential	317140	45	31	37	39	33	29	35	29	36	32	30
Residential	317144	45	31	37	39	33	29	35	29	36	33	31
Residential	317145	45	31	38	40	34	29	35	30	37	34	32
Residential	317151	45	31	36	38	33	28	35	29	36	31	29
Residential	317154	45	33	39	41	35	30	37	32	39	35	33
Residential	317159	45	31	37	40	34	29	35	30	37	34	32
Residential	317161	45	32	39	41	35	29	36	30	38	35	33
Residential	317171	45	29	35	38	32	28	33	28	34	32	30
Residential	317172	45	29	34	37	31	27	33	27	34	30	28
Residential	317180	45	31	38	40	34	29	35	30	37	34	32
Residential	317183	45	31	37	40	33	29	36	30	37	31	29
Residential	317189	45	24	25	28	22	20	29	23	29	23	20
Residential	317191	45	31	38	41	34	30	36	30	37	34	32
Residential	317192	45	28	33	36	29	26	33	27	33	30	28
Residential	317193	45	26	32	35	29	24	31	25	32	29	28
Residential	317197	45	30	37	39	33	28	35	29	36	32	30
Residential	317198	45	31	36	39	33	29	35	29	36	30	28
Residential	317199	45	29	33	36	29	26	33	27	35	30	28
Residential	317200	45	30	35	37	31	28	34	29	36	31	29
Residential	317201	45	29	35	38	32	28	33	28	35	32	30
Residential	317206	45	31	38	40	34	29	35	29	37	32	31
Residential	317207	45	30	35	38	32	27	35	29	36	31	30
Residential	317212	45	31	37	40	33	29	35	30	37	33	32
Residential	317213	45	30	36	38	32	28	34	28	35	30	28
Residential	317215	45	29	36	38	32	27	34	28	35	32	31
Residential	317216	45	33	37	40	34	29	37	31	38	32	31
Residential	317223	45	31	36	38	32	28	35	29	36	32	30
Residential	317228	45	32	39	41	35	29	36	30	38	34	33
Residential	317230	45	31	38	41	34	29	35	29	36	33	31
Residential	317241	45	29	35	37	31	27	33	28	34	30	28
Residential	317242	45	<20	<20	23	<20	<20	23	<20	22	20	<20
Residential	317245	45	<20	22	25	<20	<20	24	<20	22	21	<20
Residential	317246	45	<20	21	25	<20	<20	22	<20	21	20	<20
Residential	317247	45	33	37	39	33	29	37	32	38	32	31
Residential	317248	45	30	35	38	32	27	34	28	35	31	29
Residential	317250	45	31	37	40	34	29	35	30	36	33	31
Residential	317256	45	31	37	39	33	28	35	30	36	32	30
Residential	317257	45	28	32	35	29	26	32	27	34	30	28
Residential	317258	45	31	37	40	34	29	35	30	36	34	32
Residential	317264	45	29	34	37	30	26	34	28	34	30	28
Residential	317265	45	28	32	35	29	25	32	26	33	30	28
Residential	317266	45	27	33	36	30	25	32	26	33	29	28
Residential	317268	45	29	36	38	32	28	33	28	34	31	29
Residential	317269	45	28	35	37	31	27	33	27	34	31	29

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	317270	45	29	35	38	31	27	33	28	34	32	30
Residential	317271	45	31	38	40	34	30	36	30	37	34	32
Residential	317273	45	<20	24	27	21	<20	25	<20	25	21	<20
Residential	317274	45	30	36	39	33	28	35	29	36	31	29
Residential	317277	45	32	38	41	35	30	36	31	37	34	33
Residential	317278	45	28	34	36	30	26	32	27	33	30	28
Residential	317282	45	28	34	37	30	26	33	27	33	30	28
Residential	317285	45	<20	21	25	<20	<20	23	<20	21	20	<20
Residential	317286	45	27	34	36	31	27	32	26	33	30	28
Residential	317290	45	30	37	40	33	28	35	29	36	30	28
Residential	317297	45	30	36	39	33	29	35	29	36	32	30
Residential	317300	45	31	38	40	34	29	35	29	37	34	32
Residential	317312	45	<20	24	27	21	<20	25	<20	24	21	<20
Residential	317322	45	32	38	41	34	30	36	31	37	34	32
Residential	317325	45	29	35	37	32	27	33	28	35	30	28
Residential	317326	45	32	37	39	33	29	36	31	37	32	30
Residential	317330	45	<20	22	26	<20	<20	23	<20	22	21	<20
Residential	317331	45	31	38	40	34	30	35	30	37	34	32
Residential	317335	45	31	37	40	34	29	35	29	36	34	32
Residential	317346	45	21	24	27	21	<20	26	20	26	21	<20
Residential	317352	45	26	32	35	29	25	30	25	31	28	26
Residential	317355	45	30	37	39	33	28	35	29	36	33	32
Residential	317357	45	23	28	31	25	22	28	22	28	25	22
Residential	317358	45	26	33	35	29	25	31	25	32	29	27
Residential	317361	45	32	38	40	34	30	36	30	37	33	32
Residential	317371	45	32	37	39	33	28	36	31	37	31	30
Residential	317372	45	22	26	29	23	21	27	21	27	23	21
Residential	317373	45	<20	23	26	20	<20	24	<20	23	21	<20
Residential	317378	45	31	38	40	34	30	35	29	36	33	32
Residential	317379	45	29	35	38	32	27	33	28	34	31	29
Residential	317385	45	28	33	36	30	27	32	26	34	30	28
Residential	317397	45	28	35	38	32	27	33	27	34	31	29
Residential	317399	45	30	33	36	29	25	34	28	35	29	27
Residential	317411	45	27	33	35	29	25	32	26	32	30	28
Residential	317412	45	21	24	27	22	20	27	21	26	22	<20
Residential	317418	45	30	36	39	34	29	34	29	35	32	30
Residential	317423	45	<20	23	26	20	<20	25	<20	24	21	<20
Residential	317426	45	29	35	38	32	27	33	28	35	32	30
Residential	317428	45	29	33	36	31	27	33	28	35	30	28
Residential	317429	45	29	35	38	31	27	34	28	35	32	30
Residential	317437	45	23	28	31	25	22	28	22	28	25	22
Residential	317443	45	30	35	37	31	27	34	29	35	29	27
Residential	317452	45	27	33	36	30	26	31	26	32	29	27
Residential	317456	45	24	28	31	25	22	28	23	29	25	23
Residential	317457	45	27	32	35	29	24	31	26	32	29	27
Residential	317460	45	<20	21	24	<20	<20	23	<20	22	21	<20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	317462	45	27	33	35	29	24	31	25	32	29	27
Residential	317466	45	24	30	33	27	23	29	23	29	25	22
Residential	317467	45	28	33	35	29	26	32	27	33	29	27
Residential	317468	45	29	35	37	31	27	33	27	34	32	30
Residential	317471	45	27	32	35	29	24	31	25	32	29	27
Residential	317473	45	28	33	36	29	26	32	27	33	29	27
Residential	317474	45	22	26	29	23	21	27	21	26	24	21
Residential	317477	45	20	24	27	20	<20	25	<20	25	21	<20
Residential	317480	45	23	29	32	27	23	28	22	28	26	24
Residential	317481	45	29	35	38	32	28	33	28	35	31	29
Residential	317485	45	27	33	35	29	24	31	26	32	29	27
Residential	317489	45	27	32	35	29	25	32	26	33	29	27
Residential	317493	45	22	26	29	23	21	27	21	27	23	20
Residential	317498	45	29	32	35	29	24	33	28	34	29	27
Residential	317499	45	29	35	38	31	27	33	28	35	31	30
Residential	317502	45	30	37	39	33	27	34	28	35	32	30
Residential	317504	45	23	29	31	25	22	28	22	28	24	21
Residential	317506	45	23	28	31	25	22	28	22	28	25	22
Residential	317508	45	26	32	35	28	24	30	25	31	29	27
Residential	317516	45	26	31	34	28	24	31	25	32	28	26
Residential	317517	45	21	24	27	21	<20	26	20	25	21	<20
Residential	317523	45	27	33	35	29	25	31	25	32	29	27
Residential	317526	45	26	32	35	29	24	31	25	32	28	27
Residential	317528	45	28	34	37	31	27	32	27	33	31	29
Residential	317530	45	27	33	35	29	25	32	26	32	29	27
Residential	317536	45	29	35	37	31	27	32	27	34	30	29
Residential	317539	45	24	30	33	26	23	29	23	29	27	24
Residential	317544	45	24	30	33	27	23	29	23	29	27	25
Residential	317549	45	25	31	34	27	23	29	24	30	28	26
Residential	317550	45	26	32	34	28	24	31	25	32	28	26
Residential	317554	45	26	32	35	28	24	31	25	31	28	26
Residential	317558	45	27	32	35	29	25	31	25	32	29	27
Residential	317562	45	26	31	34	28	24	31	25	32	28	26
Residential	317580	45	26	32	34	28	24	30	25	31	28	26
Residential	317586	45	26	31	34	28	24	31	25	32	28	26
Residential	317589	45	22	27	30	24	22	27	22	27	24	21
Residential	317602	45	23	29	32	25	22	28	22	28	25	23
Residential	317606	45	23	28	31	25	22	28	23	29	25	23
Residential	317609	45	25	31	34	27	23	29	24	30	28	26
Residential	317611	45	26	32	34	28	24	31	25	31	28	26
Residential	317613	45	26	32	35	28	24	31	25	32	28	26
Residential	317630	45	23	29	32	26	22	28	22	28	26	23
Residential	317636	45	25	31	34	27	24	30	24	31	26	24
Residential	317641	45	24	30	33	26	23	28	23	29	27	25
Residential	317649	45	24	30	32	26	23	29	23	29	26	24
Residential	317658	45	22	25	29	23	20	27	21	27	23	20

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	317663	45	25	31	34	28	24	30	24	30	28	26
Residential	317696	45	24	30	33	27	23	29	23	30	27	25
Residential	317697	45	25	31	34	28	24	30	24	30	28	26
Residential	317699	45	22	26	29	23	21	27	21	27	23	21
Residential	317703	45	23	29	32	26	22	28	22	28	25	23
Residential	317712	45	23	30	32	26	23	28	23	29	27	25
Residential	317732	45	23	29	32	26	22	28	22	28	26	24
Residential	317734	45	24	30	33	26	23	29	23	29	27	25
Residential	317749	45	22	27	30	24	21	27	21	27	24	22
Residential	317757	45	22	28	31	25	22	27	21	27	25	22
Residential	318983	45	27	32	35	29	25	32	26	33	30	28
Residential	318985	45	46	51	53	48	41	49	44	52	39	38
Residential	318986	45	31	37	39	33	29	34	29	36	34	32
Residential	318992	45	38	<20	23	<20	<20	41	35	43	20	<20
Residential	318997	45	38	39	41	35	30	40	35	42	36	34
Residential	318998	45	35	33	35	33	29	39	33	41	34	33
Residential	318999	45	35	39	41	35	31	38	33	41	37	35
Residential	319000	45	66	32	35	29	24	69	63	67	36	34
Residential	319002	45	26	31	34	28	24	31	25	32	35	33
Residential	319003	45	55	35	37	31	27	58	52	59	51	50
Residential	319005	45	53	26	29	23	<20	55	49	52	37	35
Residential	319009	45	51	53	56	51	43	53	48	56	53	51
Residential	319012	45	52	38	41	35	29	55	49	58	54	52
Residential	319013	45	31	28	31	25	22	35	30	36	32	30
Residential	319016	45	42	26	29	23	20	45	40	48	45	44
Residential	319017	45	35	40	42	36	31	39	33	41	37	35
Residential	319019	45	55	31	34	28	24	58	52	60	54	53
Residential	319020	45	40	40	42	36	31	43	38	46	38	36
Residential	319022	45	43	32	35	30	26	46	40	48	41	39
Residential	319024	45	40	33	36	30	26	44	38	45	40	38
Residential	319031	45	39	38	41	36	30	42	37	45	35	33
Residential	319032	45	42	43	46	45	38	46	40	48	42	41
Residential	319034	45	29	34	37	31	26	33	27	34	32	30
Residential	319035	45	33	38	41	35	29	37	31	38	36	34
Residential	319037	45	43	47	49	43	37	46	41	48	45	43
Residential	319039	45	47	51	53	48	41	49	44	52	50	49
Residential	319040	45	37	32	35	29	25	41	36	44	38	37
Residential	319042	45	55	43	46	41	38	57	51	60	39	37
Residential	319044	45	56	41	44	38	32	58	53	61	41	40
Residential	319045	45	59	40	42	36	31	62	56	64	60	58
Residential	319048	45	51	37	40	33	28	54	48	57	54	52
Residential	319049	45	47	41	43	37	32	49	44	51	43	41
Residential	319052	45	31	34	37	31	27	35	30	37	33	31
Residential	319053	45	31	31	34	28	24	35	30	37	30	28
Residential	319054	45	30	31	34	28	24	35	29	37	30	28
Residential	319055	45	32	36	38	32	28	36	31	38	33	31

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	319057	45	34	37	40	34	29	38	33	40	36	34
Residential	319058	45	36	39	41	35	30	39	34	42	38	36
Residential	319059	45	32	<20	23	<20	<20	36	31	38	<20	<20
Residential	319061	45	31	<20	23	<20	<20	35	30	37	<20	<20
Residential	319062	45	30	20	24	<20	<20	34	29	36	21	<20
Residential	319064	45	31	20	24	<20	<20	35	29	37	21	<20
Residential	319066	45	37	20	23	<20	<20	40	35	43	<20	<20
Residential	319071	45	38	35	38	32	28	40	34	42	40	38
Residential	319073	45	30	36	39	33	29	34	29	36	33	32
Residential	319076	45	27	33	35	29	26	31	26	32	28	26
Residential	319077	45	44	24	28	21	<20	47	41	50	22	20
Residential	319082	45	31	24	27	21	<20	36	30	37	24	22
Residential	319088	45	37	24	27	21	<20	41	35	43	24	22
Residential	319090	45	36	26	30	23	20	39	33	41	26	23
Residential	319094	45	36	26	29	23	20	39	34	42	38	36
Residential	319098	45	47	51	53	48	41	50	44	52	55	54
Residential	319099	45	47	52	54	49	42	51	45	53	56	55
Residential	319100	45	54	45	48	42	36	57	51	59	50	48
Residential	319101	45	61	62	65	61	52	64	58	64	63	62
Residential	319103	45	58	61	64	59	51	60	55	62	77	76
Residential	319104	45	55	58	61	57	49	58	52	60	74	72
Residential	319111	45	34	33	36	34	30	37	32	39	36	34
Residential	319112	45	36	39	41	35	30	40	34	42	38	36
Residential	319114	45	37	39	42	36	31	41	35	43	39	37
Residential	319117	45	32	38	40	34	30	36	31	38	31	29
Residential	319121	45	66	52	55	49	42	68	63	68	49	47
Residential	319122	45	31	37	40	35	30	36	30	37	34	32
Residential	319126	45	37	43	46	40	34	41	36	43	37	35
Residential	319129	45	28	34	36	30	27	32	27	34	31	29
Residential	319133	45	33	22	25	<20	<20	37	31	39	22	20
Residential	319134	45	34	21	24	<20	<20	38	32	39	21	<20
Residential	319135	45	33	20	24	<20	<20	36	31	38	20	<20
Residential	319138	45	52	50	52	47	40	55	49	57	45	44
Residential	319141	45	41	46	49	43	37	44	38	46	43	42
Residential	319143	45	31	37	40	34	30	35	30	37	34	32
Residential	319145	45	36	41	44	38	33	39	34	41	38	37
Residential	319147	45	42	37	40	36	31	45	40	48	41	40
Residential	319150	45	65	43	46	40	35	67	62	68	48	47
Residential	319152	45	29	34	37	31	26	33	27	34	32	30
Residential	319154	45	82	55	57	52	45	55	50	58	74	73
Residential	319157	45	40	37	40	34	29	43	38	46	42	41
Residential	319163	45	57	31	34	28	28	58	53	61	47	46
Residential	319166	45	57	50	53	47	41	60	54	63	46	44
Residential	319167	45	46	35	38	32	27	50	44	50	50	49
Residential	319168	45	43	44	46	40	35	47	41	48	48	47
Residential	319174	45	38	28	31	25	23	41	35	43	40	39

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	319175	45	40	28	31	25	23	42	36	45	42	40
Residential	319178	45	25	24	27	21	<20	30	24	31	28	26
Residential	319180	45	26	27	31	25	21	30	24	31	29	27
Residential	319183	45	30	25	28	23	21	34	29	36	31	29
Residential	319184	45	33	39	42	36	31	37	32	39	36	34
Residential	319185	45	42	27	30	24	21	45	40	48	24	22
Residential	319186	45	33	32	35	29	26	37	32	39	29	27
Residential	319190	45	33	37	40	34	29	36	31	39	34	32
Residential	319191	45	63	50	53	47	40	65	59	67	47	46
Residential	319193	45	60	49	52	46	39	62	56	65	46	44
Residential	319194	45	39	44	47	41	35	42	37	45	48	47
Residential	319199	45	61	35	37	31	28	63	57	65	56	54
Residential	319200	45	56	49	52	46	40	59	53	61	46	44
Residential	319201	45	32	34	37	31	31	36	31	38	39	38
Residential	319203	45	34	40	42	36	31	37	32	40	36	35
Residential	319205	45	36	42	44	38	33	40	34	42	39	37
Residential	319206	45	49	52	55	49	42	52	46	54	60	59
Residential	319210	45	31	<20	<20	<20	<20	35	30	37	32	31
Residential	319212	45	30	<20	<20	<20	<20	35	29	36	32	30
Residential	319214	45	35	41	44	38	33	39	34	41	37	35
Residential	319215	45	43	31	34	28	24	47	41	49	32	30
Residential	319219	45	43	26	29	23	20	47	41	49	47	46
Residential	319220	45	44	24	28	22	<20	47	41	45	48	46
Residential	319224	45	36	<20	24	<20	<20	40	34	42	35	33
Residential	319225	45	36	22	26	<20	<20	40	35	42	36	34
Residential	319226	45	65	37	39	33	29	67	61	66	68	66
Residential	319228	45	59	26	30	23	20	60	54	56	39	38
Residential	319230	45	35	40	43	37	32	39	33	41	41	39
Residential	319235	45	43	22	25	<20	<20	46	40	49	40	38
Residential	319239	45	26	27	30	24	21	30	25	32	29	27
Residential	319240	45	36	35	38	36	31	40	34	42	35	33
Residential	319246	45	39	36	38	32	28	40	35	43	41	39
Residential	319247	45	48	22	25	<20	22	51	45	53	44	42
Residential	319248	45	27	33	36	30	25	32	26	33	37	36
Residential	319249	45	26	32	35	29	24	31	25	33	36	35
Residential	319254	45	28	31	34	27	23	32	27	34	32	30
Residential	319261	45	37	32	35	29	25	40	35	43	37	36
Residential	319263	45	41	47	49	44	37	45	39	48	45	43
Residential	319267	45	38	33	36	29	25	42	36	44	39	37
Residential	319269	45	35	30	33	26	23	39	34	41	37	35
Residential	319275	45	36	42	44	38	33	39	34	42	58	57
Residential	319276	45	33	37	40	34	30	37	31	38	36	34
Residential	319279	45	49	40	43	37	31	53	47	56	41	39
Residential	319280	45	34	31	34	30	26	38	32	40	33	31
Residential	319283	45	34	39	42	36	31	37	32	40	50	49
Residential	319285	45	42	26	30	23	20	45	40	48	40	39

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	319287	45	41	27	30	24	21	45	39	47	42	40
Residential	319289	45	38	28	31	25	22	41	36	44	39	38
Residential	319292	45	44	46	49	44	38	47	42	49	47	45
Residential	319293	45	52	43	46	41	36	54	49	58	52	51
Residential	319294	45	64	41	44	38	32	67	62	66	44	42
Residential	319297	45	74	56	59	54	46	56	50	58	72	71
Residential	319298	45	45	32	35	29	25	48	43	52	34	32
Residential	319299	45	55	50	53	47	40	54	49	58	57	55
Residential	319300	45	55	49	52	46	39	49	43	52	57	55
Residential	319302	45	60	35	38	32	27	63	57	63	35	33
Residential	319303	45	34	40	43	37	32	38	33	40	36	35
Residential	319308	45	30	28	32	25	22	35	29	37	29	27
Residential	319309	45	28	30	33	27	23	33	27	34	30	28
Residential	319312	45	33	35	38	32	29	37	32	39	35	33
Residential	319315	45	48	31	34	28	24	50	44	53	48	47
Residential	319317	45	33	<20	<20	<20	<20	37	31	40	32	30
Residential	319318	45	34	<20	<20	<20	<20	38	32	40	33	31
Residential	319320	45	32	33	36	29	25	36	30	38	35	34
Residential	319323	45	30	33	37	30	26	34	29	36	32	30
Residential	319327	45	47	39	42	36	31	50	44	52	46	44
Residential	319328	45	45	39	42	36	30	48	43	51	45	43
Residential	319331	45	45	44	47	42	36	48	43	51	46	44
Residential	319332	45	32	31	34	27	23	37	32	39	31	29
Residential	319336	45	34	38	41	35	30	38	32	40	37	35
Residential	319341	45	42	47	49	44	38	45	40	48	45	43
Residential	319344	45	32	36	39	33	28	36	31	38	34	33
Residential	319349	45	48	52	55	49	42	51	45	54	40	38
Residential	319352	45	30	28	32	25	22	35	29	37	29	27
Residential	319356	45	41	43	45	39	33	45	39	47	49	48
Residential	319357	45	40	44	47	41	35	43	38	46	49	48
Residential	319362	45	56	34	37	31	27	58	53	59	38	37
Residential	319363	45	55	42	45	39	33	58	52	58	47	46
Residential	319364	45	53	42	44	38	33	56	50	57	46	45
Residential	319365	45	44	42	44	38	33	47	41	49	40	38
Residential	319374	45	41	37	40	34	29	45	39	48	39	37
Residential	319388	45	31	<20	<20	<20	<20	35	30	37	32	30
Residential	319396	45	30	31	34	27	24	35	29	36	32	30
Residential	319400	45	32	34	37	32	28	36	30	38	30	28
Residential	319409	45	30	34	37	31	26	34	28	35	32	30
Residential	319420	45	30	34	37	31	27	34	29	35	38	36
Residential	319452	45	55	31	34	27	24	58	52	59	54	52
Residential	319464	45	36	37	40	34	28	40	34	42	37	35
Residential	319465	45	52	31	34	28	24	53	48	56	52	50
Residential	319481	45	60	47	50	44	37	62	56	64	69	67
Residential	319483	45	48	34	37	31	27	51	45	54	52	50
Residential	319485	45	63	59	62	57	49	65	60	67	68	67

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	319490	45	36	42	44	38	33	39	34	42	39	37
Residential	319491	45	30	32	35	28	24	35	29	36	33	31
Residential	319493	45	44	47	50	44	38	48	42	50	55	54
Residential	319495	45	32	37	39	33	29	36	30	38	34	32
Residential	319500	45	35	38	41	35	30	39	33	41	37	35
Residential	319505	45	36	40	42	36	31	40	35	43	38	37
Residential	319570	45	26	32	35	28	24	30	25	32	29	27
Residential	319605	45	56	57	59	54	46	58	53	61	58	56
Residential	319629	45	33	36	39	33	29	37	31	39	34	32
Residential	319630	45	33	33	35	29	26	37	31	39	32	30
Residential	319640	45	41	46	48	42	36	44	38	46	43	41
Residential	319652	45	58	54	57	51	44	60	55	62	54	52
Residential	319653	45	37	36	39	33	31	41	35	44	42	40
Residential	319659	45	26	30	33	27	23	31	25	32	31	29
Residential	319682	45	29	35	37	31	27	34	28	35	31	29
Residential	319693	45	29	31	34	28	24	33	27	35	30	28
Residential	319704	45	31	20	24	<20	<20	35	29	37	21	<20
Residential	319707	45	35	<20	24	<20	<20	39	34	42	21	<20
Residential	319718	45	50	24	27	21	<20	53	47	56	22	<20
Residential	319732	45	35	40	43	37	32	38	33	41	36	34
Residential	319733	45	57	49	52	47	41	59	54	62	55	53
Residential	319734	45	53	35	38	31	27	56	50	58	35	33
Residential	319736	45	45	38	41	35	30	48	43	51	56	55
Residential	319737	45	33	30	33	27	23	37	31	39	31	29
Residential	319748	45	29	33	36	29	25	33	28	35	31	29
Residential	319752	45	29	31	34	28	25	34	28	35	29	27
Residential	319767	45	34	38	41	35	30	38	33	41	37	35
Residential	319803	45	42	38	41	39	34	45	40	48	42	41
Residential	319816	45	30	32	34	32	28	34	28	34	33	31
Residential	319848	45	67	47	49	45	39	70	64	70	60	59
Residential	320062	45	44	36	39	32	27	46	40	48	39	37
Residential	320180	45	47	49	52	46	40	50	44	52	48	47
Residential	320263	45	33	<20	<20	<20	<20	37	31	40	26	23
Residential	320346	45	30	26	30	28	25	34	28	36	24	22
Residential	320350	45	35	38	41	35	30	39	34	41	40	38
Residential	320355	45	29	30	33	27	23	34	28	35	33	31
Residential	320356	45	32	29	33	28	25	36	30	38	31	28
Residential	320357	45	32	24	27	22	20	36	30	37	30	28
Residential	320358	45	52	42	44	38	32	54	49	57	49	48
Residential	320359	45	35	36	39	33	29	39	33	41	34	32
Residential	320360	45	39	29	33	26	23	43	37	45	27	25
Residential	320363	45	45	49	52	46	40	48	43	50	50	48
Residential	320364	45	41	38	41	34	29	45	39	48	43	41
Residential	320365	45	42	45	48	43	36	45	40	48	45	43
Residential	320366	45	33	37	40	34	30	37	32	40	36	34
Residential	320376	45	50	54	56	51	44	53	48	56	55	53

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	320432	45	37	37	39	33	28	41	35	43	35	33
Residential	320433	45	38	37	40	34	28	42	36	44	36	34
Residential	320434	45	37	37	40	34	30	41	35	43	34	33
Residential	320435	45	39	44	46	40	34	43	37	45	41	39
Residential	320436	45	34	37	40	33	29	39	33	40	34	32
Residential	320437	45	39	44	47	41	35	42	37	45	42	41
Residential	320439	45	38	44	46	40	35	42	36	44	41	39
Residential	320440	45	26	24	28	22	20	31	25	32	29	27
Residential	320441	45	34	40	43	37	32	38	32	40	37	35
Residential	320442	45	40	46	48	43	36	44	38	46	44	43
Residential	320444	45	43	47	49	43	37	46	40	49	44	42
Residential	320448	45	36	42	44	38	33	40	34	42	39	38
Residential	320449	45	44	49	52	46	39	47	42	50	47	45
Residential	320450	45	29	36	39	32	28	34	28	35	33	31
Residential	320451	45	33	33	36	30	25	37	32	39	32	30
Residential	320453	45	33	34	36	30	25	37	32	39	32	30
Residential	320454	45	35	31	34	28	24	39	33	41	36	35
Residential	320456	45	38	44	47	40	35	42	36	44	41	40
Residential	320457	45	36	42	45	39	33	40	35	42	40	39
Residential	320458	45	31	31	33	27	23	36	30	37	33	31
Residential	320459	45	39	44	47	40	35	42	37	45	41	39
Residential	320460	45	39	43	46	40	34	43	37	45	39	37
Residential	320461	45	41	46	49	43	37	44	38	47	44	42
Residential	320462	45	37	35	38	32	31	41	35	43	36	35
Residential	320463	45	36	34	36	30	26	40	34	42	36	35
Residential	320465	45	38	44	46	40	34	41	36	43	41	40
Residential	320467	45	25	31	34	28	24	30	25	31	28	26
Residential	320468	45	36	34	37	31	26	40	34	42	36	34
Residential	320469	45	38	44	47	41	35	42	37	44	41	40
Residential	320470	45	38	39	41	35	32	42	36	44	36	34
Residential	320471	45	40	45	48	42	36	43	38	46	43	42
Residential	320472	45	44	50	53	47	40	48	42	50	48	47
Residential	320473	45	36	42	44	38	33	40	34	41	39	37
Residential	320474	45	40	44	46	40	35	44	38	46	39	38
Residential	320475	45	41	47	50	44	37	45	39	47	45	44
Residential	320476	45	36	42	45	39	33	40	34	42	40	38
Residential	320477	45	42	47	50	44	38	45	40	48	45	44
Residential	320478	45	38	44	47	41	35	42	36	44	42	40
Residential	320479	45	37	43	45	39	34	41	35	42	40	39
Residential	320484	45	42	47	49	43	37	45	39	48	44	42
Residential	320492	45	34	34	36	30	25	38	32	40	33	32
Residential	320496	45	41	42	45	40	35	44	39	47	40	38
Residential	320501	45	36	35	37	31	26	40	34	42	35	33
Residential	320503	45	30	25	28	23	21	35	29	36	32	30
Residential	320507	45	38	42	45	39	33	41	36	44	38	37
Residential	320524	45	39	45	47	41	35	42	37	45	43	41

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	320550	45	44	49	51	45	39	47	42	51	46	44
Residential	320551	45	35	37	39	33	28	39	33	41	32	30
Residential	320555	45	37	42	45	39	33	41	35	43	39	37
Residential	320557	45	56	60	62	58	50	58	53	61	68	66
Residential	320562	45	35	41	44	38	32	39	33	41	39	37
Residential	320567	45	27	29	32	25	22	32	26	33	30	28
Residential	320568	45	35	42	44	38	33	39	34	41	39	37
Residential	320569	45	25	23	26	21	<20	30	24	31	26	24
Residential	320570	45	35	41	44	38	33	39	33	41	39	37
Residential	320572	45	38	44	47	41	35	42	36	44	42	40
Residential	320573	45	41	45	47	41	35	44	38	47	41	40
Residential	320574	45	36	34	36	30	25	40	35	43	37	35
Residential	320575	45	32	31	34	28	23	36	31	38	33	31
Residential	320576	45	36	35	37	31	26	40	34	42	36	35
Residential	320577	45	37	35	38	31	31	41	35	43	37	35
Residential	320579	45	39	38	41	34	29	43	37	45	35	34
Residential	320580	45	37	43	45	39	34	41	35	43	40	38
Residential	320581	45	55	59	61	57	49	57	52	60	66	65
Residential	320582	45	37	37	40	36	31	40	35	43	34	33
Residential	320583	45	36	33	36	29	25	40	34	42	37	35
Residential	320584	45	43	48	51	45	39	46	41	49	47	46
Residential	320585	45	35	33	35	29	24	39	34	41	37	35
Residential	320586	45	30	28	31	25	22	35	29	36	31	29
Residential	320587	45	36	42	44	38	33	40	34	42	39	38
Residential	320588	45	37	43	45	39	34	41	35	43	41	39
Residential	320589	45	39	45	48	42	36	43	37	45	43	41
Residential	320590	45	39	44	47	41	35	43	37	45	42	40
Residential	320591	45	37	36	38	32	30	41	35	43	35	33
Residential	320592	45	39	45	48	42	36	43	37	45	43	41
Residential	320593	45	40	46	48	42	36	43	38	46	43	42
Residential	320594	45	34	40	43	37	31	38	33	40	34	33
Residential	320596	45	28	32	35	29	26	32	27	33	30	28
Residential	320597	45	39	45	47	41	36	43	37	45	42	41
Residential	320598	45	44	50	52	46	40	48	42	50	48	46
Residential	320599	45	44	50	52	47	40	48	42	50	49	47
Residential	320600	45	37	33	36	30	25	41	35	43	37	36
Residential	320601	45	42	46	48	42	36	45	40	48	43	41
Residential	320602	45	41	46	48	42	36	44	39	47	43	41
Residential	320603	45	37	43	46	39	34	41	35	43	40	38
Residential	320604	45	35	41	43	38	32	39	33	41	39	37
Residential	320605	45	34	36	39	32	28	38	32	39	33	32
Residential	320606	45	41	47	49	43	37	45	39	47	44	42
Residential	320607	45	30	24	28	22	20	35	29	36	31	30
Residential	320612	45	32	38	41	35	30	37	31	37	31	29
Residential	320645	45	42	46	48	42	36	45	40	48	43	41
Residential	320646	45	37	34	37	31	26	41	35	43	37	35

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	320647	45	34	29	32	26	24	38	33	40	32	31
Residential	320658	45	30	24	28	22	20	34	28	35	31	29
Residential	320661	45	36	35	38	32	27	40	34	42	35	33
Residential	320665	45	37	43	46	40	34	41	35	43	40	38
Residential	320669	45	30	37	39	33	29	35	29	36	27	25
Residential	320678	45	33	27	30	27	24	37	31	38	34	32
Residential	320684	45	28	20	23	<20	<20	33	28	35	29	27
Residential	320685	45	27	22	26	<20	<20	31	26	32	29	27
Residential	320686	45	37	30	33	27	23	40	35	43	39	37
Residential	320687	45	36	22	26	<20	22	40	34	41	35	33
Residential	320688	45	29	22	25	<20	<20	34	28	34	29	27
Residential	320689	45	30	22	25	<20	<20	35	30	36	31	30
Residential	320691	45	34	22	25	<20	<20	38	32	39	33	31
Residential	320692	45	33	22	25	<20	<20	37	32	38	29	27
Residential	320695	45	29	22	25	<20	<20	34	28	34	29	27
Residential	320698	45	29	21	25	<20	<20	33	28	35	28	26
Residential	320700	45	32	23	26	<20	<20	36	31	37	30	28
Residential	320704	45	28	21	24	<20	<20	33	27	34	28	26
Residential	320707	45	31	28	31	25	22	35	30	37	32	31
Residential	320708	45	34	21	25	<20	21	38	32	40	35	34
Residential	320709	45	31	22	25	<20	<20	35	29	34	30	28
Residential	320710	45	29	21	24	<20	<20	34	28	35	29	27
Residential	320713	45	28	22	25	<20	<20	33	27	33	26	24
Residential	320714	45	34	23	26	<20	<20	38	32	39	32	31
Residential	320716	45	31	38	40	34	30	36	30	38	44	43
Residential	320718	45	34	21	25	<20	<20	38	32	38	32	31
Residential	320719	45	27	21	25	<20	<20	32	26	33	30	28
Residential	320720	45	27	<20	24	<20	<20	31	26	32	27	25
Residential	320721	45	26	21	25	<20	<20	32	26	33	28	26
Residential	320722	45	28	21	25	<20	<20	33	27	34	29	28
Residential	320724	45	36	23	26	<20	<20	40	34	42	34	32
Residential	320728	45	29	22	25	<20	<20	33	28	33	29	27
Residential	320733	45	29	21	25	<20	<20	33	28	35	31	29
Residential	320734	45	28	22	26	<20	<20	33	27	33	29	27
Residential	320739	45	30	21	24	<20	<20	35	29	36	30	28
Residential	320740	45	40	25	28	22	<20	44	38	46	37	35
Residential	320742	45	27	23	26	20	<20	32	27	33	29	27
Residential	320743	45	34	23	27	20	<20	38	32	39	33	31
Residential	320744	45	30	22	25	<20	<20	34	28	35	30	28
Residential	320753	45	27	22	25	<20	<20	32	26	33	29	27
Residential	320754	45	31	22	25	<20	<20	35	30	37	30	28
Residential	320769	45	31	23	26	<20	<20	36	30	37	29	27
Residential	320841	45	28	34	36	30	25	33	27	34	30	28
Residential	320844	45	37	40	43	37	31	41	35	43	38	36
Residential	320845	45	28	33	36	29	25	33	27	33	31	29
Residential	320846	45	36	41	44	38	32	39	34	42	38	37

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	320850	45	34	37	40	35	29	38	32	40	36	34
Residential	320851	45	34	37	40	34	28	38	32	39	35	34
Residential	320854	45	28	32	35	29	25	33	27	34	31	29
Residential	320855	45	28	33	35	29	25	33	28	34	31	29
Residential	320856	45	44	46	48	42	36	47	42	50	46	45
Residential	320857	45	44	48	51	45	38	47	42	50	45	43
Residential	320859	45	52	51	53	48	41	55	50	56	52	50
Residential	320860	45	55	52	55	49	42	57	52	60	54	52
Residential	320863	45	35	40	43	37	31	39	33	41	37	35
Residential	320864	45	29	33	36	30	25	33	27	34	31	29
Residential	320867	45	38	42	44	39	32	42	36	44	39	37
Residential	320870	45	37	42	45	39	33	41	35	43	39	37
Residential	320871	45	37	41	44	38	32	40	34	42	38	36
Residential	320872	45	32	37	40	34	29	36	30	38	34	32
Residential	320873	45	37	40	43	37	31	41	35	43	38	36
Residential	320874	45	37	38	41	36	30	40	34	42	37	35
Residential	320877	45	27	32	35	29	25	31	25	33	29	27
Residential	320878	45	27	33	35	29	25	31	26	32	29	28
Residential	320885	45	31	35	38	32	27	35	30	36	33	31
Residential	320886	45	32	36	38	32	27	36	30	38	34	32
Residential	320889	45	57	59	62	57	49	60	54	62	58	56
Residential	320890	45	55	55	58	52	45	58	52	60	53	52
Residential	320891	45	29	33	36	30	26	33	27	35	30	28
Residential	320892	45	30	34	37	31	26	34	28	34	31	29
Residential	320895	45	44	48	51	46	39	48	42	50	45	44
Residential	320896	45	36	39	41	35	30	40	34	42	37	35
Residential	320897	45	36	39	41	35	30	40	34	42	37	35
Residential	320899	45	35	39	41	36	30	39	33	41	37	35
Residential	320900	45	28	34	37	30	26	32	26	34	30	28
Residential	320934	45	31	35	38	31	26	35	29	36	33	31
Residential	320937	45	45	42	44	39	33	48	42	51	41	40
Residential	320939	45	43	48	51	45	39	46	41	48	45	44
Residential	320940	45	29	35	37	31	26	33	28	35	32	30
Residential	320941	45	29	33	36	30	25	33	27	33	31	29
Residential	320942	45	30	34	37	32	27	34	28	36	32	30
Residential	320943	45	30	36	39	33	27	34	29	36	33	31
Residential	320946	45	44	48	51	45	38	47	41	50	45	43
Residential	320947	45	34	36	39	33	28	38	33	40	35	33
Residential	320951	45	56	49	52	46	39	59	53	57	55	53
Residential	320954	45	34	39	42	36	30	38	32	40	36	34
Residential	320955	45	32	36	38	32	27	36	30	38	34	32
Residential	320957	45	30	35	38	32	27	34	28	36	32	30
Residential	320977	45	56	57	59	55	47	58	52	60	55	53
Residential	320980	45	37	37	40	34	29	41	35	41	34	32
Residential	320985	45	39	42	44	39	33	43	37	45	40	39
Residential	320986	45	37	40	42	37	31	41	35	42	38	36

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	320987	45	29	34	37	30	26	33	28	35	31	29
Residential	320988	45	27	32	34	28	24	32	26	33	30	28
Residential	320990	45	48	30	33	26	24	51	45	54	46	45
Residential	320991	45	27	33	35	29	25	31	25	32	29	27
Residential	320992	45	27	33	35	29	25	31	25	32	29	27
Residential	320994	45	27	33	36	29	25	31	26	33	29	28
Residential	320996	45	29	34	37	31	26	33	27	35	31	29
Residential	320997	45	35	38	40	35	30	39	33	41	37	35
Residential	321001	45	39	41	44	38	33	42	37	45	38	37
Residential	321016	45	42	35	37	31	26	45	39	48	34	32
Residential	321017	45	36	39	41	36	30	40	34	41	37	35
Residential	321019	45	44	42	45	39	33	47	42	50	42	41
Residential	321020	45	49	46	48	43	37	52	46	54	46	44
Residential	321021	45	36	39	42	36	31	39	34	42	37	35
Residential	321024	45	34	38	41	35	29	38	32	40	36	34
Residential	321025	45	34	35	38	33	28	38	32	40	35	33
Residential	321031	45	38	43	46	40	35	40	35	42	40	39
Residential	321032	45	50	51	53	48	41	53	47	54	49	47
Residential	321033	45	52	53	56	50	43	55	50	56	52	50
Residential	321034	45	49	51	53	48	41	52	47	54	49	48
Residential	321061	45	29	34	36	30	25	33	28	35	32	30
Residential	321062	45	28	33	35	30	25	33	27	34	31	29
Residential	321064	45	30	34	37	31	26	34	28	36	32	30
Residential	321065	45	29	34	37	31	26	34	28	35	31	29
Residential	321066	45	27	33	36	30	25	31	26	32	30	28
Residential	321067	45	30	36	39	33	28	34	29	36	33	31
Residential	321068	45	31	35	38	32	27	35	29	36	32	30
Residential	321069	45	29	35	38	31	27	33	28	35	32	30
Residential	321073	45	38	43	45	40	34	41	35	43	40	38
Residential	321075	45	42	41	43	38	32	45	39	47	40	38
Residential	321077	45	27	33	35	29	25	32	26	33	29	28
Residential	321098	45	36	36	39	33	28	40	34	42	36	34
Residential	321099	45	36	39	42	36	30	40	34	42	37	35
Residential	321100	45	36	34	37	31	28	39	33	41	37	36
Residential	321104	45	38	40	43	37	31	41	36	43	39	37
Residential	321106	45	26	30	33	27	23	30	25	31	28	26
Residential	321111	45	34	39	42	36	30	38	33	40	36	34
Residential	321118	45	39	42	45	39	33	43	37	45	40	39
Residential	321123	45	28	33	36	30	25	32	26	34	30	28
Residential	321124	45	44	41	43	37	31	47	41	48	44	42
Residential	321135	45	37	42	44	38	32	40	34	42	39	37
Residential	321141	45	45	41	44	38	32	48	42	49	45	43
Residential	321142	45	27	33	35	29	25	31	26	32	30	28
Residential	321144	45	31	37	40	34	29	35	29	36	34	32
Residential	321147	45	47	51	53	48	41	50	44	50	48	47
Residential	321155	45	27	32	34	28	24	32	26	32	29	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321182	45	30	36	38	32	27	34	28	36	32	31
Residential	321184	45	62	58	60	56	48	65	59	65	69	68
Residential	321185	45	28	34	37	30	26	32	27	34	31	29
Residential	321186	45	26	32	35	29	25	31	25	32	29	27
Residential	321192	45	38	40	43	37	31	42	36	44	39	37
Residential	321197	45	41	32	34	28	25	44	39	47	43	42
Residential	321198	45	44	45	47	41	35	47	42	50	42	40
Residential	321199	45	30	36	39	33	28	35	29	36	33	31
Residential	321200	45	31	36	39	33	28	35	29	36	34	32
Residential	321205	45	27	33	36	30	25	32	26	33	30	28
Residential	321206	45	27	32	35	29	24	31	26	33	29	27
Residential	321207	45	27	33	35	29	25	32	26	33	30	28
Residential	321208	45	27	31	34	28	24	31	26	33	29	27
Residential	321209	45	27	32	35	29	25	32	26	33	29	27
Residential	321210	45	36	44	46	40	34	40	34	42	39	37
Residential	321214	45	29	35	37	31	26	33	28	35	31	30
Residential	321231	45	26	31	33	28	24	31	25	32	29	27
Residential	321233	45	34	38	41	35	30	38	32	40	36	34
Residential	321237	45	32	37	40	34	28	36	31	38	34	32
Residential	321241	45	26	32	35	29	25	31	25	32	29	27
Residential	321246	45	44	46	48	43	37	47	41	48	45	43
Residential	321247	45	29	34	37	30	26	34	28	35	31	29
Residential	321248	45	29	34	36	30	25	33	27	33	31	29
Residential	321249	45	48	46	48	42	37	51	45	52	47	46
Residential	321250	45	36	39	41	35	30	40	34	42	37	36
Residential	321252	45	36	41	43	37	31	39	34	41	37	36
Residential	321254	45	42	44	46	41	35	45	39	47	42	40
Residential	321256	45	39	43	45	40	33	43	37	45	40	38
Residential	321258	45	39	44	47	41	34	42	37	45	41	40
Residential	321277	45	31	36	39	33	28	35	29	37	33	31
Residential	321281	45	36	38	40	34	29	40	34	42	35	33
Residential	321282	45	33	38	40	34	29	37	31	38	35	34
Residential	321283	45	32	37	40	33	28	37	31	39	34	32
Residential	321284	45	43	46	49	44	36	47	41	49	44	42
Residential	321286	45	41	42	45	41	35	44	38	46	40	38
Residential	321292	45	40	43	46	40	34	43	37	46	41	39
Residential	321294	45	34	38	41	35	29	37	32	40	35	34
Residential	321296	45	46	51	53	48	40	49	43	51	48	47
Residential	321297	45	44	47	50	44	38	47	42	49	46	45
Residential	321299	45	29	35	37	31	26	33	27	35	31	29
Residential	321300	45	31	35	38	32	27	35	29	37	33	31
Residential	321301	45	29	32	35	29	25	33	27	35	31	29
Residential	321303	45	27	32	34	28	24	31	26	32	29	27
Residential	321305	45	33	37	40	35	30	37	31	37	34	32
Residential	321309	45	30	31	34	28	25	35	29	35	32	30
Residential	321332	45	54	51	53	48	41	56	51	57	52	50

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321339	45	27	32	35	29	24	32	26	33	29	27
Residential	321343	45	28	33	36	29	25	32	26	33	31	29
Residential	321344	45	29	35	38	32	27	34	28	35	32	30
Residential	321346	45	25	31	34	27	24	30	24	31	28	26
Residential	321347	45	26	32	35	29	24	31	25	32	29	27
Residential	321352	45	30	35	38	31	27	35	29	36	33	31
Residential	321353	45	30	34	37	31	26	34	29	36	32	30
Residential	321354	45	35	38	41	35	29	39	33	41	36	34
Residential	321356	45	30	35	37	31	26	35	29	35	32	30
Residential	321357	45	31	35	38	31	26	35	30	35	32	31
Residential	321358	45	37	39	42	38	32	40	35	43	37	35
Residential	321370	45	41	45	47	42	36	44	38	47	42	40
Residential	321371	45	35	37	40	34	29	38	33	41	36	34
Residential	321372	45	38	43	45	40	34	42	36	44	40	38
Residential	321373	45	37	40	43	37	31	41	35	43	38	37
Residential	321375	45	28	33	36	30	25	33	27	34	30	28
Residential	321376	45	28	32	35	29	24	32	26	33	30	28
Residential	321379	45	30	35	38	31	27	34	28	36	32	30
Residential	321381	45	53	38	41	35	30	56	51	59	52	51
Residential	321383	45	36	41	44	38	32	40	34	42	38	36
Residential	321385	45	37	40	43	37	32	41	35	43	39	37
Residential	321391	45	26	31	34	28	24	31	25	32	29	27
Residential	321394	45	36	38	40	34	29	40	34	42	37	35
Residential	321417	45	28	34	37	31	26	33	27	34	31	29
Residential	321422	45	27	33	35	29	25	32	26	33	29	28
Residential	321429	45	49	53	55	50	43	52	46	54	50	49
Residential	321431	45	27	33	36	30	25	32	26	33	30	28
Residential	321433	45	28	33	36	30	25	32	26	34	30	28
Residential	321434	45	28	33	36	30	25	32	27	34	30	28
Residential	321435	45	30	35	37	31	27	34	28	36	31	29
Residential	321436	45	35	40	42	36	31	38	33	40	36	35
Residential	321437	45	27	31	34	27	23	31	26	32	29	27
Residential	321438	45	30	34	37	31	26	34	28	36	32	30
Residential	321439	45	29	34	37	31	26	34	28	35	32	30
Residential	321440	45	37	42	45	39	33	41	35	43	39	38
Residential	321448	45	37	41	44	38	32	40	34	42	39	37
Residential	321451	45	35	40	43	37	31	39	33	41	37	35
Residential	321452	45	36	43	45	39	34	40	34	42	39	37
Residential	321457	45	63	53	56	50	43	66	60	65	60	59
Residential	321458	45	63	54	57	51	44	66	60	66	60	59
Residential	321485	45	28	33	36	30	25	33	27	34	30	28
Residential	321486	45	34	36	39	33	28	38	32	40	35	33
Residential	321489	45	40	44	47	41	35	44	38	46	42	40
Residential	321490	45	35	41	43	37	31	39	33	41	37	36
Residential	321491	45	35	41	43	37	31	39	33	41	37	36
Residential	321492	45	37	41	44	41	35	41	35	42	39	37

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321494	45	25	31	34	28	24	30	24	31	28	26
Residential	321496	45	27	32	35	29	24	31	26	32	29	27
Residential	321502	45	26	30	33	27	24	30	24	31	28	26
Residential	321504	45	43	48	50	44	38	46	40	48	53	52
Residential	321533	45	31	36	39	35	30	35	29	36	34	32
Residential	321535	45	26	32	35	28	24	31	25	32	29	27
Residential	321539	45	49	44	46	42	36	52	46	54	48	46
Residential	321540	45	39	40	43	38	32	42	36	44	39	38
Residential	321541	45	35	39	42	36	31	39	33	41	37	35
Residential	321543	45	27	32	35	29	24	32	26	33	30	28
Residential	321544	45	33	37	40	36	31	36	31	38	35	33
Residential	321546	45	40	42	45	39	33	43	38	46	39	37
Residential	321548	45	47	45	48	43	37	50	44	52	45	44
Residential	321549	45	49	48	51	45	38	52	46	54	50	48
Residential	321551	45	30	35	38	31	26	35	29	36	32	30
Residential	321555	45	46	48	51	45	39	49	44	49	47	46
Residential	321561	45	26	32	35	28	24	31	25	32	29	27
Residential	321562	45	26	31	34	28	24	31	25	32	29	27
Residential	321563	45	37	38	41	35	30	41	35	43	38	36
Residential	321564	45	38	39	42	36	31	42	36	44	39	37
Residential	321566	45	27	32	35	29	25	31	26	33	29	27
Residential	321567	45	32	37	40	34	28	36	30	37	34	32
Residential	321568	45	37	43	45	40	34	41	35	43	40	38
Residential	321569	45	41	43	45	40	34	44	38	46	39	38
Residential	321578	45	31	35	37	31	27	35	29	37	31	30
Residential	321581	45	35	41	43	37	31	39	33	41	38	37
Residential	321582	45	25	30	33	28	24	30	24	31	27	26
Residential	321583	45	28	34	36	30	26	32	26	33	30	28
Residential	321584	45	33	38	41	35	29	37	31	38	35	33
Residential	321585	45	48	53	55	50	42	51	46	54	50	48
Residential	321586	45	29	34	36	30	25	33	28	35	31	30
Residential	321587	45	30	36	38	32	27	34	29	36	33	31
Residential	321589	45	26	32	35	29	24	31	25	32	29	27
Residential	321590	45	27	33	35	29	25	32	26	33	29	27
Residential	321605	45	43	48	50	45	38	46	41	48	45	43
Residential	321612	45	29	35	38	31	26	34	28	34	31	29
Residential	321613	45	30	35	38	32	27	34	28	36	32	30
Residential	321618	45	58	59	61	57	49	60	54	62	57	55
Residential	321631	45	30	21	25	<20	<20	34	29	35	30	28
Residential	321632	45	30	22	25	<20	<20	34	28	35	31	29
Residential	321633	45	27	21	25	<20	<20	31	26	33	29	27
Residential	321634	45	30	22	25	<20	<20	34	29	33	28	26
Residential	321644	45	31	28	32	26	23	35	30	36	32	30
Residential	321645	45	37	25	28	22	<20	41	36	43	36	34
Residential	321646	45	26	23	26	20	<20	33	28	32	28	26
Residential	321648	45	27	22	26	<20	<20	31	26	32	28	26

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321650	45	27	22	25	<20	<20	32	26	33	29	28
Residential	321655	45	25	<20	23	<20	<20	30	24	31	27	25
Residential	321656	45	28	22	25	<20	<20	32	27	32	29	27
Residential	321657	45	33	23	26	<20	<20	38	32	39	33	31
Residential	321658	45	29	21	25	<20	<20	33	27	35	31	29
Residential	321659	45	29	21	24	<20	<20	34	28	35	31	30
Residential	321660	45	33	37	39	33	29	37	31	39	35	33
Residential	321663	45	27	22	25	<20	<20	31	26	32	28	26
Residential	321665	45	30	21	25	<20	<20	35	29	36	29	28
Residential	321666	45	26	23	26	<20	<20	31	25	32	28	26
Residential	321676	45	33	23	26	20	<20	37	31	38	33	31
Residential	321677	45	31	23	26	<20	<20	36	30	37	32	31
Residential	321678	45	32	22	25	<20	<20	36	31	37	28	26
Residential	321679	45	32	23	26	<20	<20	37	31	36	32	31
Residential	321682	45	29	20	24	<20	<20	33	28	35	29	27
Residential	321687	45	39	23	26	24	21	43	37	45	38	36
Residential	321688	45	40	25	28	22	<20	44	38	46	35	33
Residential	321689	45	37	33	36	30	25	41	36	44	39	38
Residential	321690	45	27	23	26	<20	<20	32	26	33	29	27
Residential	321691	45	34	31	34	27	28	38	32	40	36	34
Residential	321694	45	30	22	25	<20	<20	34	28	35	28	26
Residential	321695	45	30	22	25	<20	<20	34	29	35	28	26
Residential	321696	45	29	21	25	<20	<20	33	28	36	31	30
Residential	321697	45	29	21	25	<20	<20	34	28	34	29	27
Residential	321698	45	30	22	25	<20	<20	34	28	34	30	28
Residential	321699	45	27	23	26	20	<20	32	26	33	30	28
Residential	321701	45	35	23	26	23	21	39	34	40	34	32
Residential	321702	45	29	20	24	<20	<20	33	28	34	29	27
Residential	321706	45	34	23	26	20	<20	38	33	40	33	32
Residential	321708	45	33	39	42	35	31	37	32	38	47	45
Residential	321709	45	29	21	24	<20	<20	33	28	34	28	26
Residential	321715	45	29	22	25	<20	<20	34	28	34	29	27
Residential	321716	45	29	22	25	<20	<20	33	28	34	30	28
Residential	321717	45	33	22	26	<20	<20	38	32	39	32	30
Residential	321718	45	30	21	24	<20	<20	34	28	35	30	28
Residential	321723	45	27	23	26	<20	<20	31	26	33	27	25
Residential	321724	45	27	23	26	<20	<20	31	26	33	29	28
Residential	321725	45	26	22	25	<20	<20	31	25	32	27	24
Residential	321726	45	32	23	26	<20	<20	37	31	38	33	31
Residential	321727	45	34	22	25	<20	<20	38	32	39	33	31
Residential	321733	45	34	22	25	<20	<20	38	32	39	33	31
Residential	321735	45	28	21	25	<20	<20	33	27	34	29	27
Residential	321737	45	32	21	24	<20	<20	36	30	38	32	30
Residential	321740	45	36	23	26	<20	22	40	34	41	35	33
Residential	321742	45	28	20	24	<20	<20	32	27	33	26	24
Residential	321743	45	36	31	33	27	23	39	33	41	37	35

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321747	45	32	30	33	28	25	36	31	38	34	32
Residential	321748	45	34	27	30	26	23	38	32	39	34	32
Residential	321751	45	27	<20	23	<20	<20	32	27	34	27	25
Residential	321752	45	31	22	25	<20	<20	35	29	36	32	30
Residential	321753	45	26	23	26	20	<20	31	26	33	29	27
Residential	321755	45	33	37	39	33	29	37	32	39	35	33
Residential	321756	45	29	22	25	<20	<20	34	28	35	31	30
Residential	321758	45	32	22	25	<20	<20	36	30	37	30	28
Residential	321759	45	34	23	26	20	<20	38	32	39	33	31
Residential	321760	45	36	23	26	<20	21	39	34	41	34	33
Residential	321762	45	29	21	24	<20	<20	33	28	34	29	27
Residential	321770	45	42	31	34	28	25	45	39	47	44	42
Residential	321789	45	29	33	36	31	26	34	28	35	32	30
Residential	321813	45	30	34	37	30	26	34	29	34	31	29
Residential	321814	45	26	30	33	28	24	31	25	32	28	26
Residential	321819	45	29	32	35	29	25	33	27	35	31	29
Residential	321821	45	46	50	53	47	40	49	43	51	46	45
Residential	321822	45	31	36	38	32	27	35	29	37	33	31
Residential	321842	45	36	40	43	37	32	40	34	42	38	36
Residential	321890	45	29	35	37	31	26	34	28	35	32	30
Residential	321903	45	29	35	37	31	26	34	28	35	31	30
Residential	321904	45	29	34	37	31	26	33	27	35	32	30
Residential	321907	45	41	45	48	42	36	44	39	47	43	41
Residential	321908	45	34	38	40	35	30	38	32	40	36	34
Residential	321909	45	46	51	54	48	41	49	44	51	49	47
Residential	321910	45	43	42	44	38	32	46	41	49	42	40
Residential	321911	45	28	34	37	31	26	33	27	34	31	29
Residential	321915	45	27	31	34	28	24	31	25	32	29	27
Residential	321920	45	51	49	52	46	39	54	49	57	50	48
Residential	321935	45	27	33	36	29	25	31	25	33	29	27
Residential	321936	45	29	34	36	30	25	33	27	34	32	30
Residential	321944	45	34	38	41	35	30	38	32	40	36	34
Residential	321947	45	33	39	41	35	30	37	31	39	35	33
Residential	321955	45	28	33	36	30	26	32	26	34	30	28
Residential	321957	45	40	38	41	37	32	43	37	45	41	39
Residential	321961	45	34	37	40	34	29	38	32	40	35	33
Residential	321963	45	30	32	35	29	24	34	28	36	31	30
Residential	321964	45	28	34	37	30	26	33	27	34	31	29
Residential	321965	45	33	37	40	35	30	37	31	37	33	31
Residential	321968	45	33	37	39	33	28	37	31	39	36	34
Residential	321970	45	30	35	37	31	26	34	28	35	31	30
Residential	321971	45	29	33	36	30	25	33	27	34	31	29
Residential	321973	45	35	30	32	27	24	39	34	42	39	37
Residential	321974	45	51	52	55	49	42	53	48	55	49	47
Residential	321975	45	63	46	49	44	41	65	59	61	58	56
Residential	321976	45	27	30	33	27	24	31	26	32	29	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	321977	45	41	41	43	38	32	44	39	46	39	38
Residential	321978	45	36	40	43	37	31	40	34	41	37	35
Residential	321979	45	31	36	39	33	28	35	29	37	33	31
Residential	321980	45	28	33	36	30	25	32	27	34	30	28
Residential	321982	45	48	52	55	49	42	51	45	53	72	70
Residential	321987	45	34	39	42	37	31	38	32	40	37	35
Residential	321996	45	31	35	38	31	27	35	29	37	33	31
Residential	321999	45	36	39	41	35	30	39	34	42	37	35
Residential	322005	45	38	42	45	40	35	42	36	44	38	36
Residential	322011	45	40	43	46	40	34	44	38	46	41	39
Residential	322013	45	40	43	46	41	34	44	38	46	41	40
Residential	322021	45	29	34	37	31	26	34	28	35	31	29
Residential	322029	45	43	37	39	33	28	46	40	48	36	34
Residential	322031	45	44	38	40	34	29	47	41	49	37	35
Residential	322032	45	35	40	43	37	31	38	33	41	37	35
Residential	322033	45	37	43	46	41	35	41	35	42	40	38
Residential	322034	45	44	49	52	46	39	47	41	45	46	45
Residential	322036	45	46	51	54	48	41	49	44	52	49	47
Residential	322037	45	50	47	50	45	38	52	46	54	49	48
Residential	322038	45	32	35	38	32	27	36	30	38	34	32
Residential	322039	45	27	32	35	28	24	32	26	33	29	27
Residential	322040	45	32	37	40	34	29	36	30	37	37	36
Residential	322041	45	45	50	52	47	40	48	42	48	47	45
Residential	322042	45	44	47	49	44	38	47	41	49	44	42
Residential	322043	45	42	45	47	42	35	45	40	47	42	40
Residential	322044	45	50	54	57	51	44	53	47	55	52	50
Residential	322046	45	42	47	49	44	37	46	40	48	44	42
Residential	322047	45	57	57	60	55	47	59	54	61	55	53
Residential	322048	45	50	51	53	48	41	52	47	54	49	47
Residential	322049	45	31	36	39	33	28	35	29	36	34	32
Residential	322050	45	44	40	43	37	31	47	41	49	40	38
Residential	322051	45	27	31	34	28	24	31	26	32	29	27
Residential	322052	45	40	43	46	40	33	43	37	45	41	39
Residential	322053	45	39	40	43	37	31	42	37	45	40	38
Residential	322072	45	34	38	41	35	30	38	32	40	36	34
Residential	322073	45	37	39	42	36	30	40	34	42	37	36
Residential	322074	45	25	31	34	28	24	30	24	31	28	26
Residential	322076	45	38	43	46	40	35	42	36	43	40	38
Residential	322077	45	44	46	49	43	38	47	41	49	44	43
Residential	322078	45	30	35	38	32	27	34	28	36	32	30
Residential	322089	45	26	30	33	27	23	31	26	32	28	26
Residential	322096	45	44	41	44	38	32	47	41	50	42	40
Residential	322103	45	36	41	43	37	31	40	34	41	38	36
Residential	322104	45	43	45	48	43	36	46	40	49	43	42
Residential	322111	45	37	38	41	36	31	41	35	42	38	37
Residential	322112	45	26	32	35	29	25	31	25	32	29	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322115	45	51	49	52	46	39	54	48	56	49	47
Residential	322116	45	33	38	41	35	30	37	31	39	36	34
Residential	322117	45	54	49	52	47	40	57	51	59	52	50
Residential	322118	45	28	34	37	30	26	33	27	34	31	29
Residential	322119	45	29	35	38	32	27	34	28	35	32	30
Residential	322120	45	45	50	52	47	40	49	43	51	55	54
Residential	322122	45	33	37	39	33	28	37	31	39	35	33
Residential	322123	45	40	41	44	38	32	43	37	45	40	38
Residential	322124	45	28	34	37	31	26	33	27	34	31	29
Residential	322125	45	49	46	48	42	36	51	46	54	47	46
Residential	322127	45	26	32	35	29	25	31	25	32	29	27
Residential	322128	45	44	41	44	42	36	47	41	49	44	43
Residential	322129	45	31	36	39	33	28	35	29	37	33	31
Residential	322130	45	27	32	35	29	24	32	26	33	29	27
Residential	322131	45	43	47	50	44	38	46	41	49	44	42
Residential	322134	45	59	46	49	46	39	61	55	62	55	54
Residential	322135	45	57	46	49	46	39	60	54	61	54	52
Residential	322136	45	57	52	55	49	42	60	54	61	56	54
Residential	322139	45	51	52	54	49	41	54	48	55	51	49
Residential	322140	45	33	39	41	36	30	37	31	38	35	34
Residential	322142	45	42	46	48	43	36	46	40	48	43	41
Residential	322145	45	30	35	38	32	27	34	28	36	33	31
Residential	322153	45	43	46	49	43	37	46	40	48	44	42
Residential	322156	45	36	39	42	36	30	40	34	41	37	35
Residential	322166	45	40	44	47	42	35	44	38	46	41	39
Residential	322169	45	29	34	37	30	26	33	27	34	31	29
Residential	322170	45	27	32	34	28	24	32	27	33	30	28
Residential	322173	45	27	33	36	30	25	32	26	33	30	28
Residential	322180	45	28	32	35	29	25	32	26	34	30	28
Residential	322190	45	35	40	43	37	31	39	33	41	37	36
Residential	322192	45	41	42	45	39	33	44	39	47	38	36
Residential	322194	45	45	50	52	47	40	48	42	50	47	45
Residential	322195	45	54	50	53	47	40	56	50	55	50	48
Residential	322197	45	26	31	34	28	24	31	25	32	29	27
Residential	322198	45	32	36	39	33	28	36	30	37	33	31
Residential	322199	45	30	35	37	31	26	34	28	35	31	30
Residential	322202	45	32	35	38	32	27	36	30	38	34	32
Residential	322204	45	25	30	34	27	24	30	24	31	28	25
Residential	322205	45	29	33	36	30	25	33	27	34	31	29
Residential	322207	45	35	38	41	35	30	39	33	41	36	34
Residential	322208	45	37	38	41	36	30	40	34	43	37	35
Residential	322214	45	45	42	44	39	32	48	42	50	43	42
Residential	322215	45	32	36	39	33	27	36	30	38	34	32
Residential	322218	45	40	41	44	38	33	44	38	46	38	37
Residential	322233	45	29	22	25	<20	<20	34	28	34	29	27
Residential	322235	45	48	52	55	49	42	50	45	53	60	58

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322236	45	27	33	36	29	25	32	26	33	30	28
Residential	322237	45	34	37	39	33	28	38	32	40	35	33
Residential	322238	45	43	45	47	46	39	46	41	49	46	45
Residential	322239	45	34	38	40	35	30	38	32	40	36	34
Residential	322241	45	36	40	43	37	31	40	34	42	39	37
Residential	322242	45	42	44	46	42	36	46	40	48	40	39
Residential	322243	45	31	36	39	33	28	35	29	37	33	31
Residential	322244	45	25	30	34	27	24	30	24	31	28	26
Residential	322245	45	33	36	39	36	30	37	31	39	34	32
Residential	322246	45	56	53	56	51	43	58	53	60	54	52
Residential	322249	45	34	40	43	37	32	38	32	39	37	35
Residential	322252	45	39	33	36	30	25	42	37	45	41	39
Residential	322255	45	29	34	37	31	26	33	27	35	31	29
Residential	322258	45	36	41	44	38	32	40	34	42	38	36
Residential	322259	45	37	42	45	39	33	41	35	43	39	38
Residential	322262	45	26	30	33	27	23	31	26	32	28	26
Residential	322267	45	27	32	35	29	24	32	26	33	29	27
Residential	322269	45	29	34	36	30	26	34	28	35	31	29
Residential	322278	45	37	39	42	36	31	41	35	43	38	36
Residential	322281	45	35	38	41	35	29	39	33	41	36	34
Residential	322282	45	29	34	37	31	26	33	27	35	31	29
Residential	322292	45	31	35	38	32	27	35	29	36	32	30
Residential	322293	45	26	31	34	28	24	30	25	32	28	26
Residential	322294	45	27	33	35	29	24	31	26	32	29	27
Residential	322295	45	35	41	44	38	33	39	34	41	38	36
Residential	322296	45	44	40	42	36	31	47	41	49	39	38
Residential	322297	45	42	38	41	36	31	45	40	48	40	38
Residential	322298	45	38	42	44	39	33	42	36	44	39	37
Residential	322302	45	47	48	51	45	38	49	44	53	46	44
Residential	322303	45	40	43	45	40	34	43	38	46	41	39
Residential	322304	45	29	34	37	30	26	33	27	34	31	29
Residential	322305	45	28	32	35	29	24	32	27	33	30	28
Residential	322306	45	33	36	39	33	28	37	31	39	34	32
Residential	322307	45	31	36	39	35	32	35	29	37	33	31
Residential	322308	45	27	33	36	29	25	32	26	33	30	28
Residential	322309	45	46	22	25	<20	<20	49	43	50	33	31
Residential	322312	45	28	32	35	29	25	33	27	34	30	28
Residential	322318	45	34	36	39	34	29	38	32	40	35	33
Residential	322320	45	30	36	39	33	27	34	29	36	33	31
Residential	322323	45	27	33	36	29	25	32	26	33	29	28
Residential	322328	45	34	40	42	37	31	38	32	39	36	35
Residential	322350	45	48	53	55	50	42	51	45	54	50	48
Residential	322353	45	30	36	38	32	27	34	28	36	33	31
Residential	322354	45	30	35	38	32	27	34	28	35	32	30
Residential	322355	45	25	29	32	26	23	30	24	31	28	26
Residential	322356	45	40	44	46	41	34	44	38	46	41	40

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
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Residential	322358	45	30	36	38	32	27	35	29	36	32	31
Residential	322359	45	31	36	39	33	28	35	29	37	33	32
Residential	322363	45	28	34	36	30	25	32	27	34	31	29
Residential	322365	45	33	38	41	35	29	37	31	39	35	33
Residential	322367	45	25	31	34	28	24	30	24	31	28	26
Residential	322368	45	27	33	36	30	25	32	26	33	30	28
Residential	322371	45	27	33	36	30	25	32	26	33	31	29
Residential	322375	45	29	35	38	32	27	34	28	35	32	30
Residential	322384	45	35	38	41	35	30	39	34	41	37	35
Residential	322386	45	36	38	40	35	29	39	33	41	36	35
Residential	322389	45	34	37	39	33	28	38	32	40	35	33
Residential	322391	45	50	37	40	34	29	53	47	56	58	56
Residential	322399	45	29	35	37	31	26	33	27	35	31	29
Residential	322420	45	28	32	35	29	25	32	27	34	30	28
Residential	322421	45	34	37	40	34	29	38	32	40	35	33
Residential	322423	45	40	41	44	39	33	43	38	46	41	40
Residential	322425	45	37	41	44	38	32	40	34	42	39	37
Residential	322426	45	34	37	40	34	29	38	32	39	36	34
Residential	322429	45	58	54	56	52	45	60	54	62	79	78
Residential	322430	45	30	35	38	32	27	34	28	35	32	30
Residential	322432	45	41	41	43	37	32	44	38	47	40	39
Residential	322435	45	51	48	51	46	38	54	48	56	50	48
Residential	322436	45	35	41	43	37	31	39	33	41	37	36
Residential	322439	45	33	37	40	33	28	37	32	39	35	33
Residential	322440	45	36	38	40	35	30	40	34	42	38	36
Residential	322443	45	36	37	40	36	31	39	34	42	36	34
Residential	322444	45	44	38	41	38	32	47	41	50	40	38
Residential	322445	45	34	39	42	36	30	38	32	40	36	34
Residential	322446	45	26	31	34	28	24	30	24	31	28	26
Residential	322448	45	40	44	47	41	35	43	37	45	41	39
Residential	322449	45	37	41	44	39	32	41	36	43	39	37
Residential	322450	45	41	39	42	36	30	44	38	47	39	37
Residential	322451	45	32	37	40	34	28	36	30	38	34	32
Residential	322453	45	63	46	49	44	38	65	59	63	59	57
Residential	322456	45	27	33	36	29	25	32	26	33	30	28
Residential	322458	45	29	35	38	32	28	34	28	35	32	30
Residential	322460	45	37	39	41	35	30	40	35	42	38	36
Residential	322462	45	42	46	49	43	36	46	40	48	43	41
Residential	322470	45	25	31	34	28	24	30	24	31	28	26
Residential	322473	45	42	36	38	32	28	45	40	48	47	45
Residential	322478	45	30	36	39	33	28	34	29	36	33	31
Residential	322486	45	26	30	33	28	24	31	25	32	29	27
Residential	322488	45	35	40	43	37	31	39	33	41	37	35
Residential	322489	45	45	42	45	39	32	48	42	50	43	41
Residential	322490	45	48	41	44	42	36	50	45	53	46	45
Residential	322491	45	35	40	43	37	31	39	33	41	37	35

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322492	45	49	54	56	51	43	52	47	55	51	49
Residential	322493	45	49	46	48	43	36	52	46	54	49	47
Residential	322494	45	57	55	57	52	44	60	54	62	55	53
Residential	322495	45	30	36	39	33	28	34	29	36	33	31
Residential	322496	45	43	45	48	42	35	46	41	48	43	41
Residential	322498	45	37	39	41	35	30	40	35	43	40	38
Residential	322500	45	35	39	42	36	30	39	33	41	36	35
Residential	322501	45	28	33	35	29	25	33	27	34	30	28
Residential	322507	45	33	38	40	34	29	37	31	38	35	33
Residential	322511	45	34	37	40	35	30	38	32	40	35	33
Residential	322514	45	31	36	39	32	27	35	29	37	33	31
Residential	322515	45	36	41	43	38	32	40	34	42	38	36
Residential	322518	45	37	41	44	38	32	41	35	43	38	36
Residential	322522	45	27	33	36	29	25	32	26	33	30	28
Residential	322523	45	26	32	35	29	24	31	26	32	29	27
Residential	322525	45	29	35	37	31	26	34	28	36	32	30
Residential	322526	45	29	34	37	31	26	33	27	35	31	29
Residential	322528	45	43	46	49	43	37	46	41	48	43	41
Residential	322529	45	52	33	36	30	26	55	49	57	53	52
Residential	322530	45	37	41	44	38	33	41	35	43	37	36
Residential	322531	45	30	35	38	32	28	34	28	36	32	30
Residential	322532	45	30	35	38	32	27	34	28	36	32	30
Residential	322533	45	27	33	36	30	25	32	26	33	30	28
Residential	322534	45	27	32	35	29	24	31	26	33	29	27
Residential	322542	45	37	41	44	38	32	41	35	43	38	36
Residential	322543	45	45	42	44	39	32	48	43	51	44	42
Residential	322546	45	26	31	34	28	24	30	24	32	28	26
Residential	322547	45	25	31	34	28	24	30	24	32	28	26
Residential	322549	45	26	30	33	27	23	30	25	31	28	26
Residential	322550	45	37	40	43	38	32	41	35	43	39	37
Residential	322551	45	26	31	34	28	24	30	25	32	28	26
Residential	322552	45	64	49	51	45	39	68	62	69	67	65
Residential	322553	45	30	35	38	32	27	35	29	35	32	31
Residential	322554	45	28	34	37	30	26	32	27	34	30	29
Residential	322557	45	30	35	38	32	27	34	28	36	33	31
Residential	322558	45	30	35	38	32	27	35	29	36	32	30
Residential	322559	45	31	37	39	33	28	35	30	37	33	32
Residential	322561	45	37	42	44	39	33	40	35	43	39	37
Residential	322562	45	45	50	53	47	40	48	43	48	48	46
Residential	322566	45	36	41	44	38	32	40	34	42	38	36
Residential	322567	45	47	47	50	45	39	51	45	52	48	46
Residential	322568	45	30	34	37	31	27	34	29	36	32	30
Residential	322569	45	28	34	37	30	26	33	27	34	31	29
Residential	322574	45	30	35	38	32	27	34	28	36	32	30
Residential	322575	45	35	38	41	35	29	39	33	41	36	35
Residential	322577	45	39	40	42	40	34	43	37	45	40	38

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322578	45	40	44	47	41	35	43	37	45	42	40
Residential	322579	45	27	32	35	29	25	32	26	33	29	27
Residential	322581	45	36	38	41	36	31	40	34	42	38	36
Residential	322582	45	28	32	35	29	25	33	27	34	30	28
Residential	322583	45	37	39	42	36	30	40	34	42	38	36
Residential	322584	45	43	42	44	38	32	46	41	49	41	39
Residential	322589	45	40	43	46	40	34	44	38	46	41	39
Residential	322590	45	31	36	38	32	27	35	30	37	33	31
Residential	322592	45	29	33	35	29	25	33	28	35	31	29
Residential	322593	45	28	33	35	29	25	33	27	34	30	28
Residential	322595	45	27	33	36	29	25	31	26	33	30	28
Residential	322597	45	28	34	37	30	26	32	26	34	30	29
Residential	322598	45	30	35	37	31	26	34	29	36	32	30
Residential	322599	45	30	34	36	30	26	34	28	35	31	30
Residential	322600	45	50	50	53	48	41	53	47	55	51	50
Residential	322602	45	36	42	44	38	32	40	34	42	39	37
Residential	322603	45	43	49	51	46	39	47	41	48	46	44
Residential	322605	45	44	46	49	43	37	47	41	49	44	42
Residential	322606	45	41	42	45	39	33	45	39	47	42	40
Residential	322607	45	28	33	36	30	25	32	26	34	30	28
Residential	322608	45	29	35	38	31	27	33	28	35	32	30
Residential	322609	45	30	35	37	31	26	34	28	35	32	30
Residential	322610	45	30	35	37	31	26	34	28	35	32	30
Residential	322615	45	41	44	47	41	35	44	38	46	42	40
Residential	322617	45	40	39	42	37	33	44	38	46	41	39
Residential	322624	45	46	40	42	36	31	49	43	51	44	42
Residential	322625	45	57	54	56	51	44	60	54	62	56	54
Residential	322627	45	35	40	43	37	31	39	33	40	37	35
Residential	322628	45	41	36	39	33	28	45	39	47	45	43
Residential	322629	45	37	38	41	36	31	40	35	42	38	36
Residential	322630	45	40	41	44	38	32	44	38	46	41	39
Residential	322631	45	33	38	40	34	29	37	31	38	34	33
Residential	322635	45	32	36	39	33	28	35	29	37	33	31
Residential	322636	45	33	37	39	33	28	37	31	39	34	33
Residential	322637	45	35	37	40	34	29	38	33	40	36	34
Residential	322638	45	38	40	43	37	32	42	36	43	39	37
Residential	322639	45	31	35	37	31	26	35	29	36	33	31
Residential	322640	45	36	37	40	34	29	40	34	42	36	35
Residential	322643	45	34	38	40	34	29	38	32	40	35	34
Residential	322644	45	35	38	40	34	29	39	33	40	36	34
Residential	322646	45	49	49	52	47	40	52	46	54	47	46
Residential	322648	45	39	40	43	37	31	42	37	45	39	38
Residential	322649	45	46	42	44	42	36	49	44	52	44	42
Residential	322650	45	35	39	42	36	31	39	33	41	36	34
Residential	322651	45	40	40	43	37	31	44	38	45	41	40
Residential	322652	45	35	38	41	35	30	39	33	41	36	35

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322654	45	34	36	39	34	29	38	32	40	36	35
Residential	322656	45	35	39	42	36	31	39	33	41	36	35
Residential	322660	45	45	48	50	45	38	48	43	51	45	43
Residential	322662	45	27	32	35	29	25	31	25	32	29	27
Residential	322663	45	27	32	35	29	25	31	25	32	29	27
Residential	322665	45	54	58	60	55	47	57	51	59	58	56
Residential	322666	45	36	42	44	38	32	40	34	42	38	37
Residential	322668	45	38	40	43	36	31	41	36	43	39	37
Residential	322672	45	37	42	44	39	32	41	35	43	39	37
Residential	322673	45	36	40	43	38	32	40	34	42	37	36
Residential	322679	45	37	42	45	39	33	41	35	43	39	37
Residential	322681	45	29	35	37	31	26	34	28	35	31	30
Residential	322687	45	40	44	47	41	34	43	37	45	41	40
Residential	322714	45	33	39	42	36	31	37	31	38	36	34
Residential	322716	45	32	37	39	36	30	36	30	37	34	32
Residential	322719	45	37	40	43	38	32	40	35	43	38	37
Residential	322720	45	26	30	33	27	23	31	26	32	28	26
Residential	322723	45	27	28	31	26	23	32	26	33	29	28
Residential	322724	45	29	35	37	31	26	33	27	34	31	29
Residential	322725	45	28	34	37	31	26	33	27	34	31	29
Residential	322726	45	28	33	36	30	25	33	27	34	31	29
Residential	322728	45	30	34	37	31	26	34	28	36	32	30
Residential	322729	45	44	41	44	38	32	47	41	47	41	39
Residential	322730	45	45	40	43	37	31	48	42	50	44	42
Residential	322732	45	44	48	51	45	39	48	42	50	45	43
Residential	322733	45	35	39	42	36	30	39	33	41	37	35
Residential	322735	45	29	31	35	29	26	34	28	35	31	29
Residential	322781	45	41	45	47	45	39	44	38	46	42	40
Residential	322784	45	25	31	34	28	24	30	24	31	28	26
Residential	322785	45	26	31	34	28	24	30	25	32	28	26
Residential	322786	45	45	43	46	43	36	48	43	50	44	42
Residential	322787	45	31	37	39	33	29	35	29	37	33	31
Residential	322788	45	30	36	38	32	27	34	29	36	33	31
Residential	322789	45	31	36	39	33	28	35	29	37	33	31
Residential	322791	45	36	40	42	36	33	40	34	42	37	35
Residential	322792	45	48	53	55	50	43	51	45	54	50	49
Residential	322794	45	44	39	41	40	34	47	41	49	40	38
Residential	322798	45	46	42	44	38	33	50	44	52	44	43
Residential	322808	45	39	30	33	27	23	42	36	44	41	39
Residential	322809	45	32	22	25	<20	<20	37	31	38	33	31
Residential	322810	45	33	29	32	26	23	37	32	39	34	33
Residential	322850	45	32	37	39	33	28	36	31	38	34	32
Residential	322851	45	32	36	39	33	27	36	30	37	33	31
Residential	322852	45	27	31	34	29	25	31	26	33	29	27
Residential	322889	45	34	38	41	34	29	37	32	40	36	35
Residential	322890	45	29	31	34	28	25	34	28	33	31	29

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	322894	45	30	36	38	32	27	34	28	36	32	31
Residential	322946	45	28	34	36	30	25	33	27	34	30	29
Residential	322950	45	29	34	36	30	26	33	28	35	32	30
Residential	322996	45	28	33	36	30	25	32	27	34	30	28
Residential	322997	45	26	32	35	28	24	31	25	32	29	27
Residential	323033	45	34	39	42	36	31	38	32	39	40	38
Residential	323037	45	41	24	27	21	<20	45	39	46	31	29
Residential	323066	45	38	41	44	38	32	42	36	44	39	38
Residential	323074	45	25	30	33	27	23	30	24	31	28	26
Residential	323100	45	27	33	35	30	25	31	26	33	29	27
Residential	323105	45	44	48	51	45	38	47	41	49	45	43
Residential	323146	45	28	33	36	30	25	33	27	34	30	28
Residential	323147	45	40	44	47	41	35	43	38	45	41	40
Residential	323149	45	37	38	41	35	29	40	35	42	36	34
Residential	323153	45	28	33	36	30	25	33	27	34	30	29
Residential	323154	45	29	34	36	30	26	33	27	34	31	29
Residential	323156	45	33	37	40	34	28	37	31	38	34	32
Residential	323159	45	39	40	43	37	31	43	37	45	40	38
Residential	323221	45	27	31	34	28	24	31	25	33	29	27
Residential	323222	45	37	40	43	37	31	41	35	43	38	37
Residential	323225	45	28	33	35	29	25	32	27	34	30	28
Residential	323226	45	37	39	42	35	30	40	34	42	38	36
Residential	323227	45	34	36	39	34	29	38	32	40	35	34
Residential	323231	45	29	33	36	30	26	33	28	35	31	29
Residential	323234	45	46	45	47	41	36	49	43	49	45	43
Residential	323279	45	32	36	39	33	27	36	30	36	34	32
Residential	323281	45	37	36	39	34	30	41	35	43	36	34
Residential	323282	45	44	42	45	39	33	47	41	49	42	41
Residential	323286	45	33	37	39	33	28	37	32	39	35	33
Residential	323288	45	29	33	35	30	26	33	27	34	31	29
Residential	323290	45	29	34	37	30	26	33	27	34	31	29
Residential	323304	45	30	35	38	31	26	34	29	36	32	30
Residential	323307	45	30	34	37	31	26	34	28	35	32	30
Residential	323308	45	29	34	37	30	26	34	28	35	32	30
Residential	323309	45	30	35	37	31	26	34	28	36	32	30
Residential	323311	45	29	35	37	31	26	33	27	35	31	29
Residential	323312	45	28	34	37	31	26	33	27	34	31	29
Residential	323313	45	29	35	37	31	26	33	27	34	31	29
Residential	323325	45	26	31	34	28	24	30	25	32	28	26
Residential	323340	45	38	39	41	37	31	42	36	44	39	38
Residential	323351	45	39	42	45	39	33	42	36	44	40	38
Residential	323355	45	35	39	42	36	31	39	33	41	36	35
Residential	323356	45	34	36	39	34	29	38	32	39	35	33
Residential	323384	45	34	39	41	36	30	38	32	40	35	34
Residential	323397	45	48	45	47	43	36	51	45	53	44	42
Residential	323399	45	31	37	39	33	28	35	29	37	33	31

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323401	45	31	37	39	33	28	35	29	37	33	31
Residential	323402	45	31	37	39	33	28	35	29	37	33	31
Residential	323403	45	36	42	45	39	33	40	35	42	39	37
Residential	323404	45	35	40	43	37	31	39	33	41	37	35
Residential	323406	45	51	42	44	38	33	54	49	57	53	52
Residential	323407	45	29	34	37	31	26	34	28	35	31	29
Residential	323408	45	48	47	50	45	38	51	45	53	45	44
Residential	323409	45	34	38	41	35	30	38	32	40	36	34
Residential	323411	45	32	38	41	35	29	36	30	38	35	33
Residential	323414	45	47	48	51	46	39	50	44	52	45	44
Residential	323415	45	49	52	54	49	42	52	46	54	49	47
Residential	323416	45	52	50	53	47	40	55	49	57	51	49
Residential	323417	45	47	52	55	49	42	50	45	52	49	48
Residential	323419	45	45	45	47	42	35	48	43	51	44	43
Residential	323420	45	32	37	40	34	30	36	31	38	34	33
Residential	323421	45	47	47	49	44	39	50	44	50	47	45
Residential	323423	45	37	41	44	38	32	40	34	42	38	36
Residential	323424	45	35	39	42	36	31	39	33	41	37	35
Residential	323425	45	34	38	41	35	29	38	32	39	36	34
Residential	323428	45	29	35	38	32	27	34	28	35	32	30
Residential	323429	45	29	35	38	32	27	34	28	35	32	30
Residential	323430	45	35	38	41	35	29	39	33	41	36	34
Residential	323432	45	34	39	42	36	30	38	32	40	36	34
Residential	323435	45	35	41	43	38	32	39	34	42	41	39
Residential	323436	45	41	42	45	39	33	45	39	47	39	37
Residential	323437	45	28	33	36	29	25	33	27	33	31	29
Residential	323438	45	25	31	34	28	24	30	24	31	28	26
Residential	323439	45	27	33	36	29	25	32	26	33	29	27
Residential	323440	45	30	35	37	31	26	34	29	35	32	31
Residential	323441	45	28	33	36	30	25	32	27	34	30	28
Residential	323442	45	27	32	35	29	24	31	25	33	29	27
Residential	323443	45	30	35	37	31	26	34	28	36	32	30
Residential	323444	45	29	33	36	29	25	33	27	34	31	29
Residential	323445	45	28	33	36	30	25	33	27	34	31	29
Residential	323446	45	39	43	46	40	34	43	37	45	40	39
Residential	323447	45	26	31	34	28	24	30	25	32	28	26
Residential	323449	45	52	56	59	53	46	54	49	57	54	52
Residential	323452	45	46	39	42	36	30	48	42	50	38	37
Residential	323453	45	46	44	47	43	38	49	44	51	47	45
Residential	323456	45	27	33	36	29	25	31	26	33	29	27
Residential	323457	45	27	33	36	30	25	32	26	33	30	28
Residential	323458	45	58	47	50	47	40	61	55	61	56	54
Residential	323459	45	32	35	38	32	27	36	30	38	34	32
Residential	323461	45	54	53	55	50	43	56	51	58	52	50
Residential	323462	45	36	41	44	38	33	40	34	41	38	36
Residential	323463	45	38	41	44	38	32	42	36	44	38	36

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323464	45	42	39	42	35	30	45	40	47	39	37
Residential	323465	45	41	46	48	42	36	45	39	47	43	41
Residential	323466	45	44	49	51	46	39	47	42	50	46	44
Residential	323467	45	34	37	40	34	28	38	32	40	35	33
Residential	323468	45	26	31	34	28	24	30	25	31	29	26
Residential	323469	45	43	45	48	42	36	47	41	49	42	40
Residential	323470	45	29	34	37	31	26	33	27	35	34	32
Residential	323472	45	26	31	34	28	24	30	24	31	28	26
Residential	323473	45	25	31	34	27	24	30	24	31	28	26
Residential	323474	45	27	33	35	29	25	32	26	33	29	28
Residential	323475	45	29	34	37	31	26	33	27	34	31	29
Residential	323476	45	43	45	48	42	36	47	41	49	44	42
Residential	323478	45	31	36	38	32	27	35	29	37	33	31
Residential	323480	45	40	38	41	35	31	43	38	46	40	38
Residential	323485	45	39	31	33	27	24	42	37	45	40	38
Residential	323487	45	34	40	42	36	31	38	32	39	36	35
Residential	323488	45	36	40	43	37	31	40	35	42	37	35
Residential	323489	45	26	32	34	28	24	31	25	32	29	27
Residential	323490	45	26	31	34	28	24	31	25	32	29	27
Residential	323491	45	34	36	39	34	29	38	32	40	35	33
Residential	323492	45	31	36	38	32	27	36	30	37	33	32
Residential	323493	45	28	33	36	30	25	32	26	33	30	28
Residential	323494	45	27	33	35	29	25	31	26	33	29	27
Residential	323495	45	27	33	35	29	25	31	26	33	29	27
Residential	323496	45	28	33	36	29	25	32	26	33	30	28
Residential	323497	45	28	32	34	28	24	32	27	33	30	28
Residential	323499	45	27	30	33	26	23	31	26	32	28	26
Residential	323500	45	27	31	34	27	23	32	26	33	28	26
Residential	323501	45	30	36	39	33	29	35	29	36	33	31
Residential	323502	45	36	40	43	37	31	40	34	42	45	43
Residential	323503	45	47	42	44	38	36	50	44	52	45	44
Residential	323504	45	46	41	44	38	36	49	44	52	45	43
Residential	323505	45	32	35	37	31	27	36	31	38	36	34
Residential	323507	45	27	33	35	29	25	32	26	33	30	28
Residential	323508	45	38	44	46	40	35	42	36	44	44	43
Residential	323510	45	43	46	49	43	36	47	41	49	45	43
Residential	323511	45	42	44	47	42	36	45	40	48	41	39
Residential	323512	45	38	43	46	40	33	41	35	43	40	38
Residential	323513	45	40	38	41	35	31	44	38	46	41	39
Residential	323515	45	30	34	37	31	27	34	28	36	32	30
Residential	323517	45	27	33	35	29	25	31	26	32	29	27
Residential	323518	45	28	33	36	30	25	32	27	33	30	28
Residential	323519	45	27	33	35	29	24	31	25	32	29	27
Residential	323520	45	26	31	34	28	24	30	24	32	28	26
Residential	323522	45	44	48	51	45	38	47	41	50	45	43
Residential	323523	45	36	40	43	38	32	40	35	42	38	36

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323524	45	36	41	44	38	32	40	34	42	38	36
Residential	323525	45	53	57	59	54	47	56	50	58	55	54
Residential	323526	45	28	33	36	30	26	32	27	34	30	28
Residential	323527	45	29	35	37	31	26	33	27	35	31	29
Residential	323528	45	39	42	44	38	32	42	37	44	40	38
Residential	323529	45	35	39	42	36	31	39	33	41	37	35
Residential	323530	45	40	42	44	41	35	43	37	45	40	38
Residential	323531	45	34	38	41	36	31	38	32	39	36	34
Residential	323533	45	36	41	44	38	32	40	35	42	38	36
Residential	323535	45	30	35	37	31	26	34	28	35	32	30
Residential	323536	45	34	37	40	34	29	38	33	40	36	34
Residential	323539	45	34	36	39	33	29	38	32	38	35	33
Residential	323541	45	30	32	35	29	25	35	29	36	32	30
Residential	323543	45	42	44	47	41	34	45	39	47	42	40
Residential	323544	45	30	34	37	31	26	34	28	35	32	30
Residential	323545	45	29	33	36	30	25	33	28	35	31	30
Residential	323546	45	28	33	35	29	25	32	26	33	30	28
Residential	323547	45	27	32	35	29	24	32	26	33	29	27
Residential	323548	45	27	33	36	30	25	32	26	33	30	28
Residential	323549	45	50	54	57	52	44	53	47	55	52	50
Residential	323550	45	27	31	34	28	24	32	26	33	30	28
Residential	323551	45	27	30	33	27	23	31	26	33	29	27
Residential	323552	45	26	30	33	27	23	31	26	32	29	27
Residential	323553	45	32	37	40	34	30	36	30	37	34	32
Residential	323554	45	28	33	36	29	25	32	26	34	30	28
Residential	323555	45	34	38	40	34	29	38	32	39	36	34
Residential	323556	45	45	49	52	46	39	48	42	50	46	44
Residential	323557	45	46	41	44	38	36	49	43	52	45	43
Residential	323558	45	36	37	40	35	30	40	34	41	37	35
Residential	323559	45	36	40	42	36	31	40	34	42	37	35
Residential	323560	45	46	51	53	48	41	49	43	52	56	54
Residential	323561	45	38	42	45	39	33	41	36	44	39	37
Residential	323562	45	38	42	44	39	33	41	36	44	39	37
Residential	323564	45	55	44	47	41	36	57	51	58	52	51
Residential	323565	45	33	37	40	34	28	37	32	39	35	33
Residential	323566	45	27	32	35	29	24	32	26	32	29	27
Residential	323567	45	26	32	35	29	24	31	25	32	29	27
Residential	323568	45	40	42	45	40	33	43	37	45	41	39
Residential	323569	45	52	56	59	54	46	55	49	57	54	53
Residential	323570	45	50	54	57	52	44	53	48	56	52	51
Residential	323572	45	36	37	40	37	32	39	34	42	36	34
Residential	323573	45	32	37	40	34	28	36	31	38	34	32
Residential	323574	45	25	30	33	27	23	30	24	31	28	25
Residential	323575	45	44	49	52	46	39	47	42	49	53	51
Residential	323576	45	49	54	56	51	43	52	46	55	51	49
Residential	323577	45	49	52	55	49	42	51	46	53	49	48

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323578	45	36	40	42	36	31	39	34	42	36	34
Residential	323579	45	46	23	26	20	<20	49	43	51	35	33
Residential	323580	45	34	38	41	35	30	38	32	40	35	34
Residential	323581	45	32	37	40	34	31	36	31	38	34	32
Residential	323582	45	27	32	35	29	25	31	26	33	29	27
Residential	323583	45	32	38	41	34	30	36	30	37	34	33
Residential	323584	45	30	36	38	32	27	34	28	36	32	30
Residential	323585	45	30	35	38	32	29	34	28	36	32	30
Residential	323586	45	29	35	38	31	27	34	28	35	32	30
Residential	323587	45	29	34	37	31	26	33	27	34	31	29
Residential	323588	45	26	32	35	29	25	31	25	32	29	27
Residential	323589	45	28	34	37	31	26	33	27	34	31	29
Residential	323590	45	29	34	37	30	26	33	27	34	31	29
Residential	323591	45	33	35	38	32	27	37	31	38	36	34
Residential	323592	45	48	34	37	31	27	50	45	53	55	54
Residential	323593	45	42	41	44	38	33	45	39	47	41	39
Residential	323594	45	41	41	44	41	35	44	39	46	41	40
Residential	323595	45	40	40	43	41	35	43	37	46	39	37
Residential	323596	45	33	37	40	35	30	37	31	37	34	32
Residential	323597	45	40	44	47	41	35	44	39	47	42	41
Residential	323598	45	49	45	48	42	36	52	46	55	46	44
Residential	323599	45	37	40	43	37	31	41	35	43	38	37
Residential	323600	45	38	41	43	37	32	41	35	43	38	36
Residential	323601	45	40	41	43	37	32	44	38	44	39	37
Residential	323602	45	40	42	45	39	33	43	38	45	41	40
Residential	323603	45	38	42	44	39	33	42	36	43	40	38
Residential	323605	45	50	52	55	50	43	53	47	55	53	51
Residential	323606	45	40	45	47	41	35	44	38	46	41	39
Residential	323607	45	37	42	44	38	33	41	35	43	39	37
Residential	323609	45	30	35	38	32	27	34	28	35	32	30
Residential	323610	45	29	33	36	30	26	34	28	34	31	29
Residential	323611	45	29	35	38	31	27	33	28	35	32	30
Residential	323612	45	26	31	34	28	24	30	25	31	28	26
Residential	323613	45	34	38	41	35	30	38	32	40	36	34
Residential	323614	45	31	37	40	35	30	36	30	37	34	32
Residential	323615	45	27	33	35	29	25	32	26	33	29	27
Residential	323618	45	34	37	40	34	29	38	32	40	36	34
Residential	323619	45	33	36	40	34	29	37	32	40	35	33
Residential	323620	45	44	43	46	44	38	48	42	50	43	41
Residential	323621	45	37	41	44	38	32	40	35	42	38	36
Residential	323622	45	52	51	53	48	41	54	48	56	50	48
Residential	323623	45	46	47	50	44	38	49	44	51	51	49
Residential	323625	45	36	42	44	38	32	40	34	42	39	38
Residential	323626	45	36	41	44	38	32	39	34	42	39	37
Residential	323627	45	48	46	48	42	36	51	46	54	47	45
Residential	323628	45	48	41	44	42	36	51	45	53	47	45

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323630	45	26	30	33	27	23	30	25	32	28	26
Residential	323631	45	26	30	33	27	23	31	25	32	29	26
Residential	323635	45	50	54	57	52	44	53	47	55	52	50
Residential	323636	45	49	54	56	51	44	52	47	55	52	50
Residential	323638	45	31	36	38	32	27	35	30	37	33	32
Residential	323639	45	37	39	42	36	31	40	35	43	37	35
Residential	323640	45	37	40	43	37	31	41	35	43	39	37
Residential	323641	45	28	32	34	28	24	33	27	34	29	27
Residential	323642	45	30	35	38	32	27	34	28	36	32	30
Residential	323643	45	26	32	35	28	24	31	25	32	29	27
Residential	323644	45	25	31	34	28	24	30	24	31	28	26
Residential	323645	45	33	36	39	33	28	37	31	39	34	33
Residential	323646	45	33	35	38	33	28	37	32	39	35	33
Residential	323647	45	34	37	39	33	28	37	32	39	35	33
Residential	323648	45	34	35	38	33	28	38	32	40	34	33
Residential	323650	45	36	42	44	38	32	40	34	42	39	37
Residential	323651	45	54	45	48	43	36	57	51	59	49	48
Residential	323652	45	38	43	45	40	34	42	36	44	40	38
Residential	323653	45	35	40	43	37	31	39	33	41	37	35
Residential	323654	45	43	47	50	44	38	46	41	49	44	43
Residential	323655	45	47	45	48	43	37	50	44	52	46	44
Residential	323656	45	48	52	55	50	42	51	45	53	50	48
Residential	323658	45	50	49	51	45	39	53	47	55	50	48
Residential	323659	45	28	33	36	30	25	32	26	33	30	28
Residential	323661	45	25	31	34	27	24	30	24	31	28	26
Residential	323662	45	28	34	37	31	26	33	27	34	31	29
Residential	323663	45	29	35	37	31	26	33	28	35	32	30
Residential	323665	45	26	30	34	27	24	30	24	31	28	26
Residential	323666	45	28	33	35	29	25	32	27	34	30	28
Residential	323667	45	39	40	43	37	31	42	36	44	39	37
Residential	323668	45	35	39	42	36	30	39	33	41	36	35
Residential	323669	45	36	39	42	36	30	40	34	41	37	35
Residential	323670	45	47	41	44	43	36	50	44	52	46	44
Residential	323671	45	41	41	44	42	36	44	39	47	41	40
Residential	323672	45	30	35	38	32	27	35	29	36	32	30
Residential	323673	45	30	35	38	32	27	34	29	36	32	30
Residential	323674	45	31	36	39	32	27	35	29	36	33	31
Residential	323675	45	38	39	42	36	30	41	35	44	38	37
Residential	323676	45	37	39	41	36	30	41	35	43	38	36
Residential	323678	45	60	54	57	52	44	62	57	64	57	56
Residential	323680	45	62	41	44	38	35	64	59	64	58	56
Residential	323681	45	37	38	41	36	30	41	35	43	37	35
Residential	323682	45	26	31	34	28	24	30	24	31	28	26
Residential	323683	45	49	48	50	44	38	52	46	54	48	46
Residential	323685	45	26	32	35	29	24	31	25	32	29	27
Residential	323686	45	28	33	36	30	25	32	27	34	30	28

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323687	45	27	33	36	29	25	32	26	34	30	28
Residential	323688	45	27	33	36	30	25	32	26	33	30	28
Residential	323689	45	25	31	34	28	24	30	24	31	28	26
Residential	323690	45	26	31	34	28	24	30	25	32	28	26
Residential	323691	45	26	31	34	28	24	30	25	32	28	26
Residential	323693	45	27	33	36	30	25	32	26	33	30	28
Residential	323694	45	28	33	36	30	26	32	26	34	30	28
Residential	323695	45	35	38	41	35	30	39	33	41	37	35
Residential	323696	45	37	39	42	36	31	41	35	43	39	37
Residential	323697	45	32	37	40	34	28	36	30	37	34	32
Residential	323698	45	39	42	44	38	35	43	37	45	38	37
Residential	323699	45	42	47	50	44	38	45	39	47	44	42
Residential	323700	45	31	37	40	34	29	36	30	38	34	32
Residential	323701	45	31	37	39	33	28	35	29	37	33	31
Residential	323702	45	41	47	50	44	37	45	39	47	44	42
Residential	323703	45	43	45	47	42	36	47	41	49	43	42
Residential	323704	45	31	37	40	34	31	35	30	37	34	32
Residential	323705	45	35	40	42	36	30	38	33	40	37	35
Residential	323706	45	26	32	35	29	24	31	25	32	29	27
Residential	323708	45	27	32	35	29	24	32	26	33	29	27
Residential	323709	45	26	28	31	26	23	31	25	32	29	27
Residential	323710	45	56	45	48	42	37	59	53	61	54	52
Residential	323711	45	56	53	55	50	42	58	53	56	54	53
Residential	323712	45	33	39	42	37	31	37	32	39	36	34
Residential	323713	45	28	34	37	30	26	33	27	34	31	29
Residential	323714	45	52	52	55	49	42	55	49	56	52	50
Residential	323716	45	29	33	35	29	25	33	27	34	31	29
Residential	323717	45	29	34	37	30	26	33	28	35	31	29
Residential	323718	45	28	32	35	29	25	33	27	34	30	28
Residential	323720	45	61	55	57	52	44	64	58	64	58	57
Residential	323722	45	60	51	54	48	41	62	56	63	75	74
Residential	323723	45	26	30	33	27	23	30	25	32	28	26
Residential	323724	45	26	30	33	27	23	30	25	31	28	26
Residential	323726	45	28	33	36	30	26	33	27	34	31	29
Residential	323727	45	29	35	38	31	26	33	28	35	31	30
Residential	323728	45	28	32	35	28	24	32	27	33	30	28
Residential	323729	45	27	31	34	28	24	32	26	33	29	27
Residential	323730	45	30	36	39	33	28	35	29	36	33	31
Residential	323731	45	28	33	36	30	25	33	27	34	30	29
Residential	323732	45	31	36	39	33	28	35	29	36	33	31
Residential	323733	45	31	36	39	33	28	35	29	36	33	32
Residential	323734	45	30	36	39	33	28	35	29	36	33	31
Residential	323735	45	33	38	41	38	32	37	32	39	36	34
Residential	323736	45	30	35	38	32	28	34	28	36	32	30
Residential	323737	45	30	36	38	32	27	34	29	36	32	30
Residential	323738	45	45	46	48	43	36	47	42	48	47	45

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323739	45	26	31	34	28	24	31	25	32	28	26
Residential	323740	45	26	31	34	28	24	31	25	32	28	27
Residential	323741	45	28	33	35	29	25	32	27	34	31	29
Residential	323742	45	37	40	42	37	31	41	35	43	38	36
Residential	323743	45	36	38	41	35	30	40	34	42	37	35
Residential	323744	45	37	39	42	36	30	41	35	43	38	36
Residential	323745	45	57	51	54	49	41	59	54	58	55	53
Residential	323746	45	55	47	50	45	38	58	52	59	54	52
Residential	323747	45	27	33	36	29	25	32	26	33	29	27
Residential	323748	45	46	45	48	44	37	49	44	51	48	46
Residential	323749	45	28	33	35	29	25	32	27	34	30	28
Residential	323750	45	27	33	36	30	25	32	26	33	30	28
Residential	323751	45	30	34	37	30	26	34	28	34	32	30
Residential	323752	45	27	31	34	27	23	32	26	33	29	27
Residential	323754	45	38	44	46	39	33	42	36	44	41	39
Residential	323756	45	41	43	46	40	35	45	39	47	41	39
Residential	323757	45	39	44	46	40	34	42	36	44	40	38
Residential	323758	45	38	42	45	39	33	42	36	44	39	38
Residential	323759	45	43	48	51	45	39	45	40	48	44	42
Residential	323760	45	44	45	47	42	36	48	42	49	44	42
Residential	323761	45	43	46	48	42	37	47	41	48	46	44
Residential	323762	45	33	37	40	34	28	37	31	38	34	33
Residential	323763	45	29	35	38	32	27	34	28	35	32	30
Residential	323767	45	38	40	43	37	31	42	36	44	39	37
Residential	323768	45	38	38	41	36	31	42	36	44	38	36
Residential	323769	45	32	36	38	32	27	36	30	38	33	32
Residential	323770	45	44	42	44	38	32	47	41	49	41	39
Residential	323771	45	44	41	43	38	32	47	41	49	40	38
Residential	323772	45	27	34	36	30	26	32	26	33	30	28
Residential	323773	45	33	37	40	34	28	37	31	38	34	32
Residential	323774	45	28	33	36	30	25	32	26	33	30	28
Residential	323775	45	27	33	36	29	25	31	26	33	29	28
Residential	323777	45	29	35	38	31	26	33	27	35	32	30
Residential	323778	45	27	33	36	30	25	32	26	33	30	28
Residential	323780	45	58	53	55	50	42	61	55	62	56	55
Residential	323782	45	33	37	40	34	28	37	32	39	35	34
Residential	323783	45	33	37	39	34	28	37	32	39	35	34
Residential	323784	45	27	33	36	30	25	32	26	33	30	28
Residential	323785	45	30	35	38	32	27	34	28	36	32	30
Residential	323786	45	44	49	52	46	39	47	42	49	57	56
Residential	323788	45	40	40	43	37	31	43	38	46	39	37
Residential	323789	45	47	49	51	46	40	50	44	52	49	47
Residential	323790	45	32	37	39	35	30	36	30	37	34	32
Residential	323791	45	45	42	45	39	33	48	43	51	43	41
Residential	323792	45	41	44	46	41	34	44	38	46	42	40
Residential	323793	45	29	34	37	31	26	33	28	35	31	29

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323794	45	32	36	39	33	27	36	30	37	33	32
Residential	323795	45	44	47	49	42	36	47	41	49	43	42
Residential	323796	45	57	56	58	53	45	60	54	61	61	59
Residential	323797	45	45	42	44	38	33	48	43	51	42	41
Residential	323798	45	51	50	52	47	40	54	48	56	49	47
Residential	323799	45	30	36	39	33	28	34	29	36	33	31
Residential	323800	45	30	35	38	32	27	34	28	36	33	31
Residential	323801	45	43	42	45	39	33	47	41	49	41	40
Residential	323802	45	26	32	34	28	24	31	25	32	28	26
Residential	323803	45	43	46	48	42	36	47	41	49	44	43
Residential	323804	45	56	58	60	56	48	58	53	60	60	58
Residential	323805	45	43	47	50	44	38	46	41	49	44	42
Residential	323806	45	44	48	50	44	38	47	42	50	44	43
Residential	323808	45	42	45	47	41	35	46	40	48	41	39
Residential	323809	45	47	41	44	42	36	50	44	53	46	44
Residential	323811	45	28	33	36	30	25	33	27	33	31	29
Residential	323812	45	26	32	35	29	25	31	25	32	29	27
Residential	323813	45	28	34	36	30	25	32	26	33	30	28
Residential	323815	45	29	34	37	31	26	33	27	35	32	30
Residential	323816	45	29	35	37	31	26	34	28	35	32	30
Residential	323817	45	38	39	42	37	31	41	35	43	39	37
Residential	323818	45	35	37	40	35	31	39	33	41	37	35
Residential	323819	45	54	54	56	51	43	57	51	59	53	51
Residential	323823	45	47	45	48	42	36	50	44	52	42	40
Residential	323824	45	25	31	34	28	24	30	24	31	28	26
Residential	323825	45	37	41	44	38	32	41	35	43	40	38
Residential	323828	45	25	31	34	28	24	30	24	31	28	26
Residential	323829	45	31	35	38	32	27	35	29	37	33	31
Residential	323830	45	41	43	46	40	35	44	39	46	40	38
Residential	323831	45	43	45	48	42	36	47	41	50	44	42
Residential	323832	45	49	47	50	45	38	52	46	54	48	46
Residential	323833	45	44	46	48	43	39	48	42	50	44	43
Residential	323834	45	30	34	37	31	26	34	28	36	32	30
Residential	323835	45	37	40	43	37	31	41	35	43	39	37
Residential	323836	45	37	40	43	37	31	40	35	43	39	37
Residential	323837	45	26	32	35	29	24	31	25	32	29	27
Residential	323838	45	26	32	35	28	24	31	25	32	29	27
Residential	323839	45	30	35	38	32	27	34	28	35	32	30
Residential	323840	45	29	35	38	31	27	34	28	35	32	30
Residential	323841	45	30	35	38	31	27	34	29	36	32	30
Residential	323843	45	31	36	38	32	27	35	30	37	34	32
Residential	323844	45	53	50	52	49	42	56	50	58	51	50
Residential	323845	45	46	47	50	44	39	50	44	50	47	46
Residential	323846	45	52	51	53	49	41	55	49	57	52	50
Residential	323847	45	50	50	52	48	40	53	47	55	49	48
Residential	323848	45	50	50	53	47	40	53	47	55	51	49

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323849	45	31	35	38	32	27	35	30	37	33	32
Residential	323850	45	32	36	39	32	27	36	30	38	33	32
Residential	323851	45	35	39	42	36	30	39	33	41	37	35
Residential	323852	45	36	41	44	38	32	40	34	42	38	37
Residential	323853	45	37	41	44	38	32	41	35	43	38	36
Residential	323854	45	73	68	71	67	58	70	64	69	100	99
Residential	323856	45	33	38	41	36	31	37	31	38	35	33
Residential	323857	45	40	42	45	43	37	43	38	45	46	45
Residential	323862	45	35	40	43	37	31	39	33	41	38	37
Residential	323866	45	45	42	45	39	35	49	43	50	48	46
Residential	323867	45	53	51	54	49	42	55	50	57	51	49
Residential	323868	45	56	51	53	48	41	59	53	61	55	53
Residential	323871	45	30	35	38	32	27	34	29	36	33	31
Residential	323872	45	28	21	24	<20	<20	32	26	33	26	24
Residential	323876	45	44	35	38	31	27	47	42	50	51	49
Residential	323877	45	31	37	40	34	28	35	29	37	34	32
Residential	323878	45	28	34	36	30	25	32	26	34	30	28
Residential	323879	45	27	33	36	30	25	32	26	33	30	28
Residential	323880	45	27	33	36	30	25	32	26	33	30	28
Residential	323882	45	30	36	38	32	27	34	28	36	32	30
Residential	323883	45	29	35	38	32	27	34	28	35	32	30
Residential	323884	45	36	41	44	38	32	39	33	41	38	36
Residential	323885	45	40	46	49	43	36	43	37	44	43	41
Residential	323887	45	44	48	51	46	38	47	41	50	45	43
Residential	323891	45	28	33	35	29	25	33	27	34	30	29
Residential	323893	45	47	51	53	48	41	50	45	53	48	47
Residential	323894	45	37	41	44	38	33	41	35	43	39	37
Residential	323895	45	36	39	42	36	30	40	34	42	38	36
Residential	323896	45	39	40	43	37	31	42	36	44	39	38
Residential	323897	45	42	40	43	37	31	45	39	48	42	40
Residential	323898	45	39	39	42	36	30	43	37	45	38	36
Residential	323899	45	37	40	42	38	33	41	35	43	37	35
Residential	323901	45	28	34	37	30	26	33	27	34	31	29
Residential	323902	45	28	33	36	30	25	32	26	34	30	28
Residential	323903	45	27	31	34	28	24	32	26	33	30	28
Residential	323904	45	38	39	42	36	31	42	36	44	38	36
Residential	323905	45	39	44	47	41	35	42	36	42	41	40
Residential	323906	45	36	42	44	39	33	40	34	42	39	37
Residential	323907	45	38	42	45	39	33	41	35	43	39	38
Residential	323908	45	41	43	45	42	36	44	39	47	40	38
Residential	323909	45	25	30	34	27	23	30	24	31	28	25
Residential	323910	45	38	42	45	39	33	42	36	44	39	37
Residential	323911	45	36	42	44	38	32	40	34	42	38	37
Residential	323912	45	46	42	44	38	32	49	44	52	44	42
Residential	323913	45	46	42	44	38	32	49	43	51	44	42
Residential	323914	45	45	41	44	38	32	49	43	51	44	42

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	323915	45	38	40	43	37	31	42	36	44	39	37
Residential	323916	45	37	39	42	36	30	41	35	43	38	36
Residential	323917	45	30	35	37	31	26	34	28	35	32	30
Residential	323918	45	39	43	45	39	33	43	37	44	40	39
Residential	323919	45	39	42	45	39	33	42	37	44	40	38
Residential	323920	45	38	39	42	36	30	41	35	44	39	37
Residential	323921	45	39	40	43	37	31	43	37	45	39	38
Residential	323922	45	39	40	43	37	31	42	37	45	39	37
Residential	323923	45	38	39	42	36	30	42	36	44	39	37
Residential	323925	45	45	49	52	46	39	49	43	51	46	45
Residential	323926	45	28	33	36	30	25	32	27	34	30	28
Residential	323927	45	44	41	44	42	36	47	42	49	41	40
Residential	323928	45	36	40	43	37	32	40	34	42	37	36
Residential	323929	45	36	41	43	38	32	40	34	42	38	36
Residential	323930	45	52	50	53	47	40	55	49	57	51	49
Residential	323931	45	28	33	36	30	25	32	27	34	30	28
Residential	323932	45	27	32	35	29	25	32	26	33	29	27
Residential	323933	45	29	34	37	31	26	33	27	35	31	29
Residential	323934	45	28	33	35	29	25	33	27	34	30	28
Residential	323935	45	36	39	42	35	30	40	34	42	37	36
Residential	323936	45	36	39	41	35	30	40	34	42	37	35
Residential	323937	45	34	37	40	34	28	38	32	40	35	34
Residential	323938	45	36	38	41	35	29	39	34	42	37	35
Residential	323939	45	34	37	40	34	29	38	32	40	35	33
Residential	323940	45	40	24	27	20	<20	43	37	45	30	28
Residential	323941	45	44	42	45	39	33	48	42	50	41	39
Residential	323942	45	26	32	35	29	24	31	25	32	29	27
Residential	323943	45	44	41	44	38	32	47	42	50	43	41
Residential	323944	45	44	41	44	38	32	47	42	50	41	39
Residential	323945	45	41	41	44	38	32	44	39	47	41	39
Residential	323946	45	45	41	44	38	36	48	42	50	41	39
Residential	323947	45	25	29	32	26	23	30	24	31	28	26
Residential	324265	45	31	37	40	34	29	35	29	36	26	24
Residential	324266	45	36	43	45	39	34	40	34	43	27	25
Residential	324268	45	34	41	44	38	32	38	33	41	27	25
Residential	324270	45	65	<20	20	<20	<20	68	62	70	78	76
Residential	324274	45	55	40	42	36	31	58	52	60	57	56
Residential	324277	45	49	43	46	40	34	52	46	55	45	43
Residential	324333	45	58	52	55	52	44	61	55	63	62	60
Residential	324347	45	53	50	53	48	41	55	50	58	51	49
Residential	1000000	45	38	30	33	27	24	41	36	43	24	22
Residential	1000001	45	29	23	26	21	<20	34	28	35	22	<20
Residential	2004625	45	41	47	49	44	37	44	39	47	29	27
Residential	2004721	45	55	42	45	41	35	58	53	61	64	62
Residential	2007798	45	35	32	35	28	24	39	33	41	34	32
Residential	2007851	45	31	37	40	34	29	35	30	37	40	38

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	2008222	45	35	<20	<20	<20	<20	39	33	41	36	34
Residential	2008224	45	60	<20	<20	<20	<20	62	57	65	64	63
Residential	2008226	45	30	33	36	30	26	34	29	36	23	21
Residential	2008227	45	32	27	30	24	21	36	31	39	29	27
Residential	2008232	45	37	41	44	38	33	41	35	44	41	39
Residential	2008234	45	40	31	33	28	25	44	38	46	43	41
Residential	2008306	45	31	36	39	33	28	35	29	37	34	32
Residential	2008307	45	31	36	40	34	28	35	29	37	34	32
Residential	2008308	45	28	33	36	30	26	33	27	34	31	29
Residential	2008309	45	26	31	34	28	24	31	25	32	28	26
Residential	2008314	45	41	41	44	40	34	45	39	47	42	40
Residential	2008315	45	37	39	42	36	30	41	35	43	38	36
Residential	2008316	45	51	47	50	45	38	54	49	56	50	48
Residential	2008317	45	51	48	51	45	39	54	48	56	49	48
Residential	2008318	45	55	52	55	49	42	58	52	60	58	56
Residential	2008319	45	56	53	56	51	43	59	53	60	59	57
Residential	2008321	45	34	35	38	32	27	38	32	40	39	37
Residential	2008322	45	31	34	37	30	30	36	30	37	39	37
Residential	2008323	45	29	29	32	25	22	33	28	35	32	30
Residential	2008324	45	30	26	30	23	20	33	28	36	30	28
Residential	2008325	45	35	33	36	30	26	39	34	41	38	36
Residential	2008326	45	29	25	28	22	<20	34	29	36	29	27
Residential	2008328	45	34	27	30	28	25	38	33	40	36	34
Residential	2008329	45	47	28	31	25	23	49	44	52	42	40
Residential	2008330	45	32	21	25	<20	<20	36	31	38	31	29
Residential	2008331	45	25	<20	20	<20	<20	30	24	31	26	24
Residential	2008332	45	24	21	25	<20	<20	29	23	30	26	24
Residential	2008333	45	41	26	29	22	<20	43	37	46	48	47
Residential	2008335	45	37	36	40	34	28	41	35	43	38	36
Residential	2008336	45	37	38	41	35	30	40	34	43	38	36
Residential	2008338	45	30	36	39	33	29	35	29	37	33	32
Residential	2008339	45	28	31	34	28	24	32	27	33	32	30
Residential	2008340	45	54	34	37	30	26	56	50	60	43	42
Residential	2008341	45	43	48	50	45	38	46	41	49	49	47
Residential	2008342	45	31	32	35	29	25	35	30	38	32	30
Residential	2008343	45	39	36	39	33	28	42	37	44	33	32
Residential	2008344	45	27	30	33	27	23	31	26	33	29	27
Residential	2008346	45	26	21	25	<20	<20	30	24	31	20	<20
Residential	2008347	45	52	54	56	51	44	53	47	55	55	53
Residential	2008349	45	42	38	40	34	29	46	40	48	40	39
Residential	2008350	45	31	37	39	33	28	35	29	37	35	33
Residential	2008351	45	42	45	48	42	36	45	39	47	41	40
Residential	2008353	45	33	39	41	35	31	36	31	38	36	34
Residential	2008355	45	37	43	45	39	34	41	35	43	39	37
Residential	2008357	45	37	42	45	39	34	41	35	43	39	37
Residential	2008358	45	28	34	36	30	26	32	27	33	29	27

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	2008359	45	26	31	34	28	25	31	25	32	29	27
Residential	2008360	45	29	34	37	31	27	33	28	35	30	28
Residential	2008361	45	29	33	36	30	26	33	28	34	29	27
Residential	2008363	45	29	35	38	32	28	33	28	35	31	29
Residential	2008364	45	27	32	35	29	25	31	26	32	29	27
Residential	2008365	45	27	33	36	29	26	32	26	33	28	26
Residential	2008366	45	25	31	34	28	24	30	24	31	28	26
Residential	2008367	45	26	31	34	28	24	30	24	31	28	26
Residential	2008368	45	25	31	34	27	24	30	24	31	28	26
Residential	2008369	45	25	30	34	27	23	30	24	31	28	25
Residential	2008371	45	25	31	34	27	24	30	24	31	28	25
Residential	2008372	45	25	30	33	27	23	30	24	31	27	25
Residential	2008373	45	25	30	33	27	23	30	24	31	27	25
Residential	2008374	45	25	30	33	27	23	30	24	31	27	25
Residential	2008375	45	25	27	30	24	22	30	24	31	25	22
Residential	2008376	45	24	30	33	27	23	29	24	30	27	25
Residential	2008377	45	23	29	32	26	23	28	23	29	27	25
Residential	2008378	45	24	30	33	26	23	29	23	29	27	25
Residential	2008379	45	21	26	30	24	22	27	21	26	24	22
Residential	2008380	45	<20	<20	22	<20	<20	22	<20	21	<20	<20
Residential	2008393	45	28	<20	23	<20	<20	32	27	34	28	26
Residential	2008394	45	45	40	43	37	32	48	42	51	42	41
Residential	2008396	45	31	37	40	34	29	35	30	37	34	32
Residential	2008397	45	31	37	39	33	29	35	29	37	34	32
Residential	2008398	45	30	36	39	33	29	35	29	36	33	32
Residential	2008399	45	30	36	39	33	29	34	29	36	33	31
Residential	2008400	45	31	37	39	33	29	35	30	37	34	32
Residential	2008401	45	30	37	39	33	29	35	29	36	34	32
Residential	2008402	45	30	35	37	31	27	35	29	36	32	30
Residential	2008403	45	30	33	36	30	26	34	29	36	31	28
Residential	2008404	45	31	37	39	33	29	35	30	37	34	32
Residential	2008405	45	30	36	39	33	29	35	29	36	32	30
Residential	2008406	45	30	34	37	31	27	34	29	36	31	29
Residential	2008407	45	30	33	36	29	26	34	29	36	30	28
Residential	2008408	45	31	37	39	33	29	35	30	37	34	32
Residential	2008409	45	30	34	37	31	27	35	29	36	31	29
Residential	2008410	45	30	33	36	30	26	34	29	36	30	28
Residential	2008411	45	30	32	35	29	25	34	29	36	30	28
Residential	2008412	45	31	37	39	33	29	35	30	37	34	32
Residential	2008413	45	30	34	37	30	27	35	29	36	31	29
Residential	2008414	45	30	32	35	29	26	34	29	36	30	28
Residential	2008415	45	37	43	45	39	34	41	35	43	39	38
Residential	2008417	45	38	43	46	40	34	42	36	43	40	38
Residential	2008418	45	37	41	44	38	32	41	36	43	35	33
Residential	2008420	45	38	44	46	40	34	42	36	44	39	37
Residential	2008421	45	34	40	42	36	30	38	32	40	36	34

Receptor Type	Receptor ID	Criterion dB(A)	Non-Standard hours - Predicted (facade correct) LAeq construction noise level (dBA)									
			Scenario 10 Drainage	Scenario 11a Structures piling and foundation, bored piling	Scenario 11b Structures piling and foundation, driven piling	Scenario 12 Structures pier construction	Scenario 13 Structures superstructure deck	Scenario 14 Rail civil bottom ballast	Scenario 15 Rail civil sleeper and rail installation	Scenario 16 Rail civil tamping and regulating	Scenario 17 Road civil road base	Scenario 18 Road civil asphalt
Residential	2008422	45	30	36	38	32	27	34	29	36	32	31
Residential	2008423	45	36	38	41	35	30	40	34	42	37	35
Residential	2008431	45	30	36	39	33	28	35	29	37	33	31
Residential	2008437	45	45	29	32	26	22	48	43	51	47	45
Residential	2008438	45	42	46	48	43	37	44	38	46	44	43
Residential	2008439	45	33	36	39	33	28	34	29	36	35	33
Sporting Facility	320849		32	37	40	34	28	36	30	37	34	33
Sporting Facility	321505		52	43	46	45	38	55	49	57	49	48
Sporting Facility	322502		29	34	37	31	26	33	27	34	31	29
Sporting Facility	322669		31	35	37	32	28	36	30	37	33	31
Sporting Facility	323881		30	36	38	32	27	34	28	35	32	30
Sporting Facility	2008430		25	30	34	27	23	30	24	31	28	26

APPENDIX

V

Noise and Vibration Assessment—Construction and Road Traffic

Appendix D Predicted construction noise level contour maps

BORDER TO GOWRIE REVISED DRAFT ENVIRONMENTAL IMPACT STATEMENT

Inland Rail is a subsidiary of
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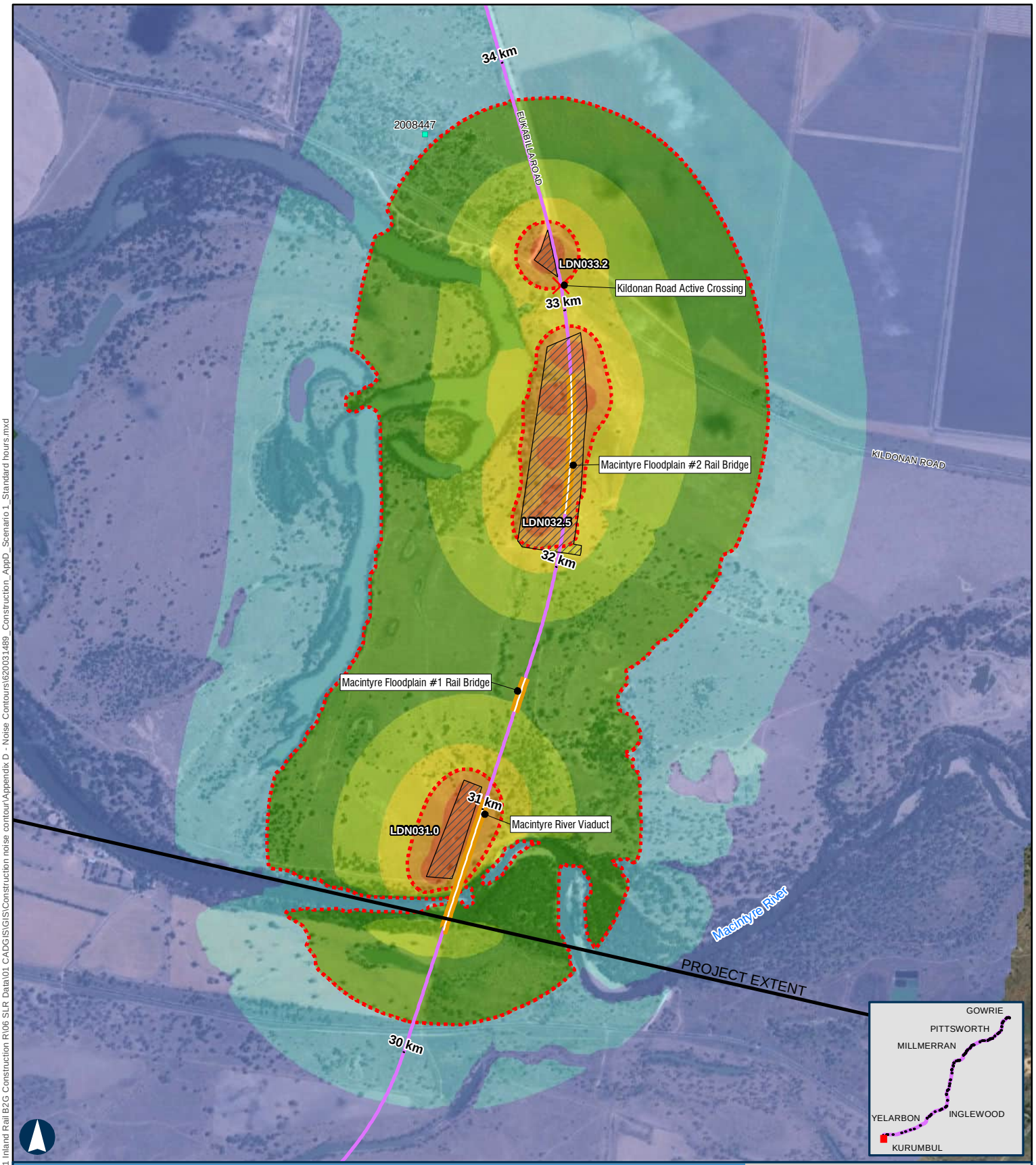
INLAND RAIL



BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 1 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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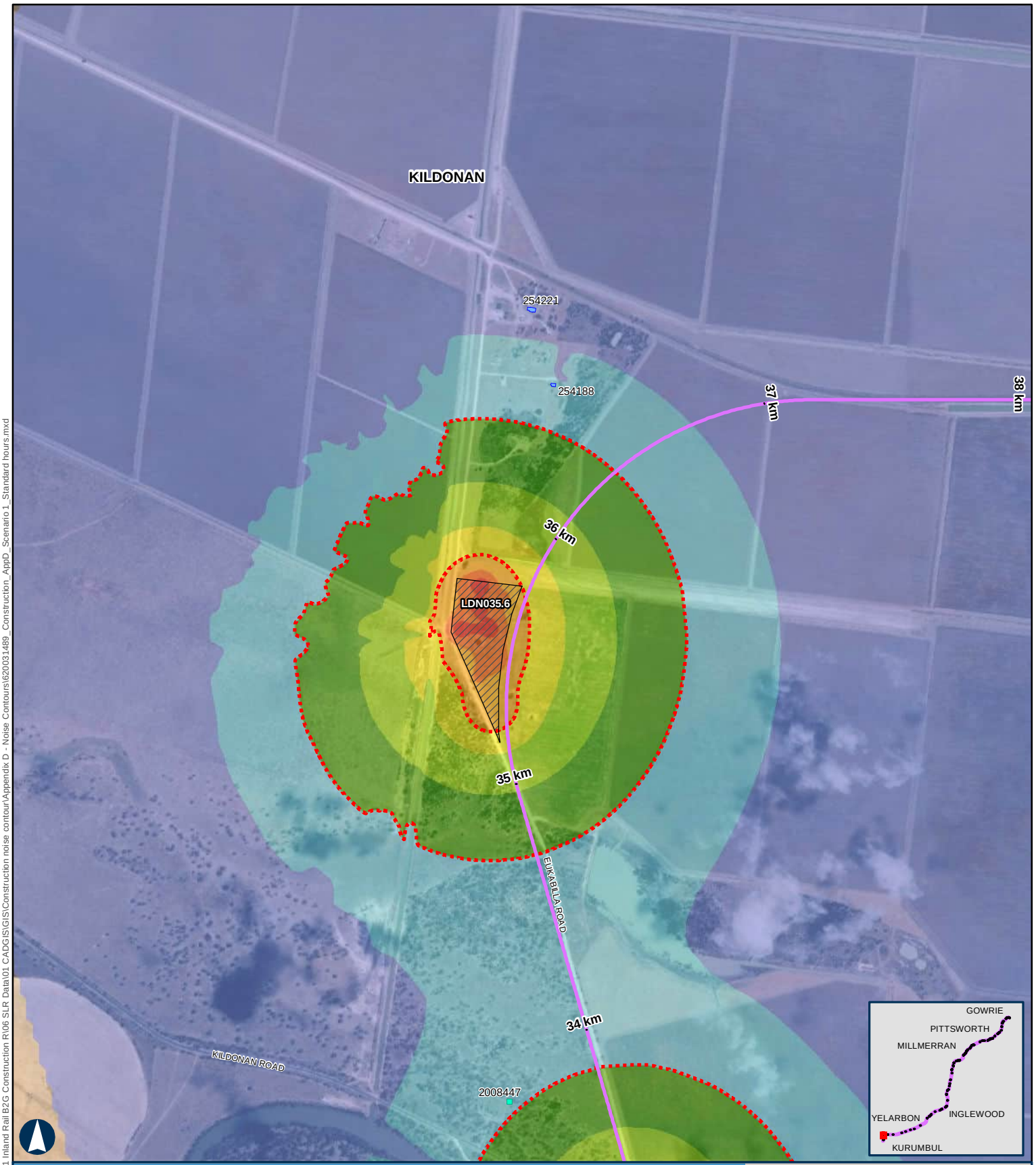

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 2 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type
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Noise Levels
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- >75 dBA

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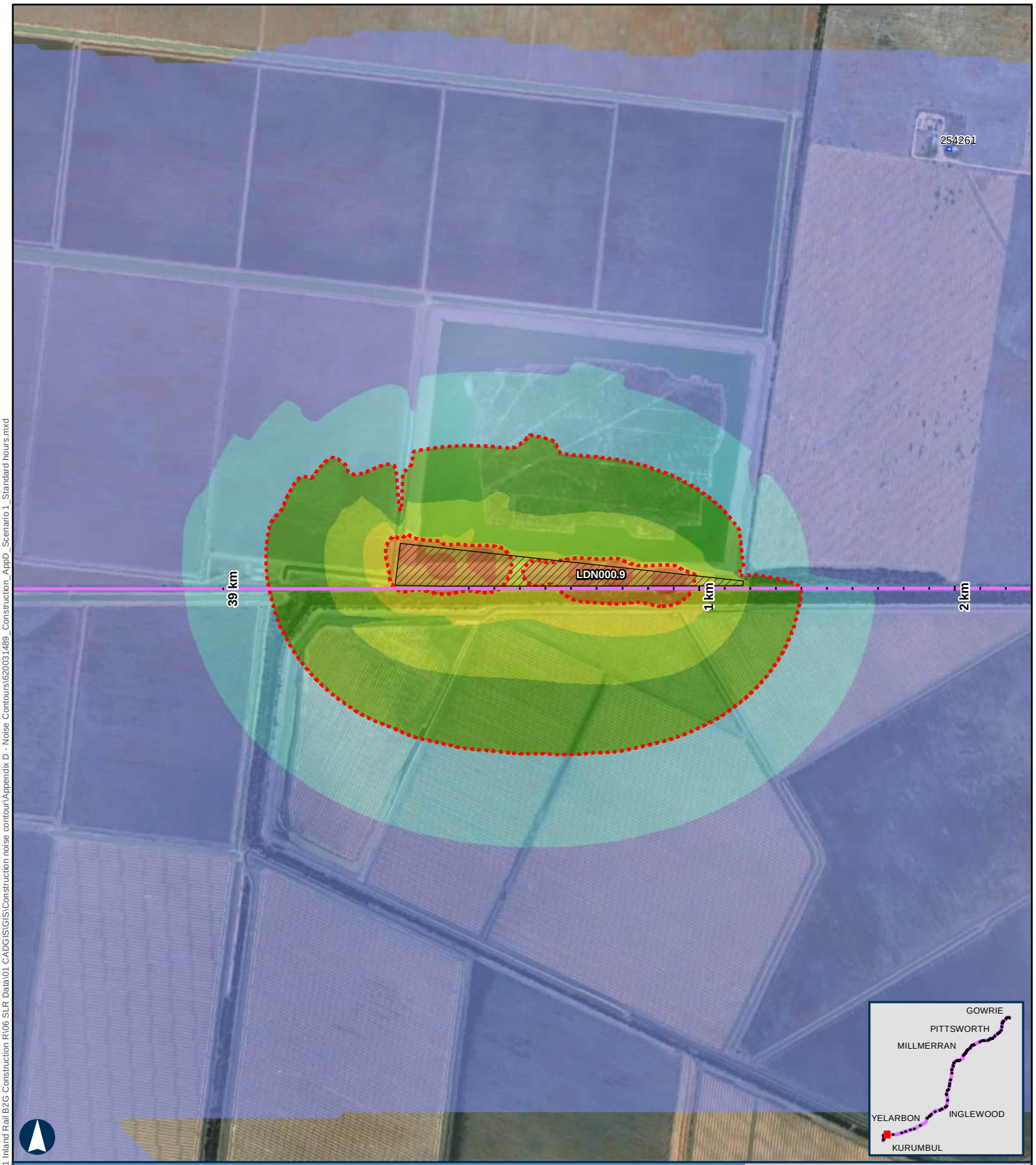

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 3 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

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- Koala Habitat Area

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- Future Developments

Noise Levels
- <45 dBA
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- 70-75 dBA
- >75 dBA

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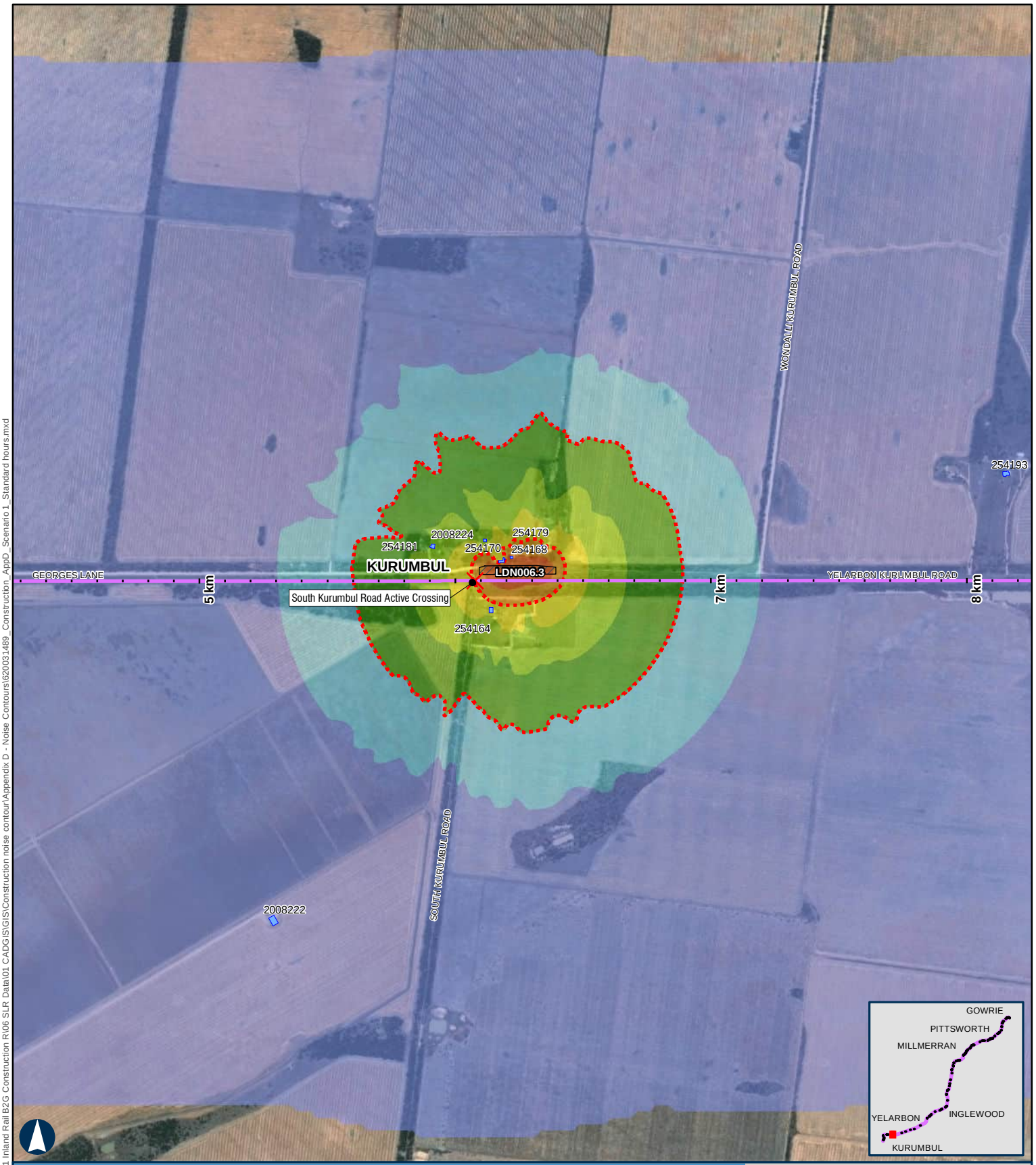

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 4 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Koala Habitat Area

Sensitive Receptor Type
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- Educational
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- Future Developments

Noise Levels
- <45 dBA
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- 50-55 dBA
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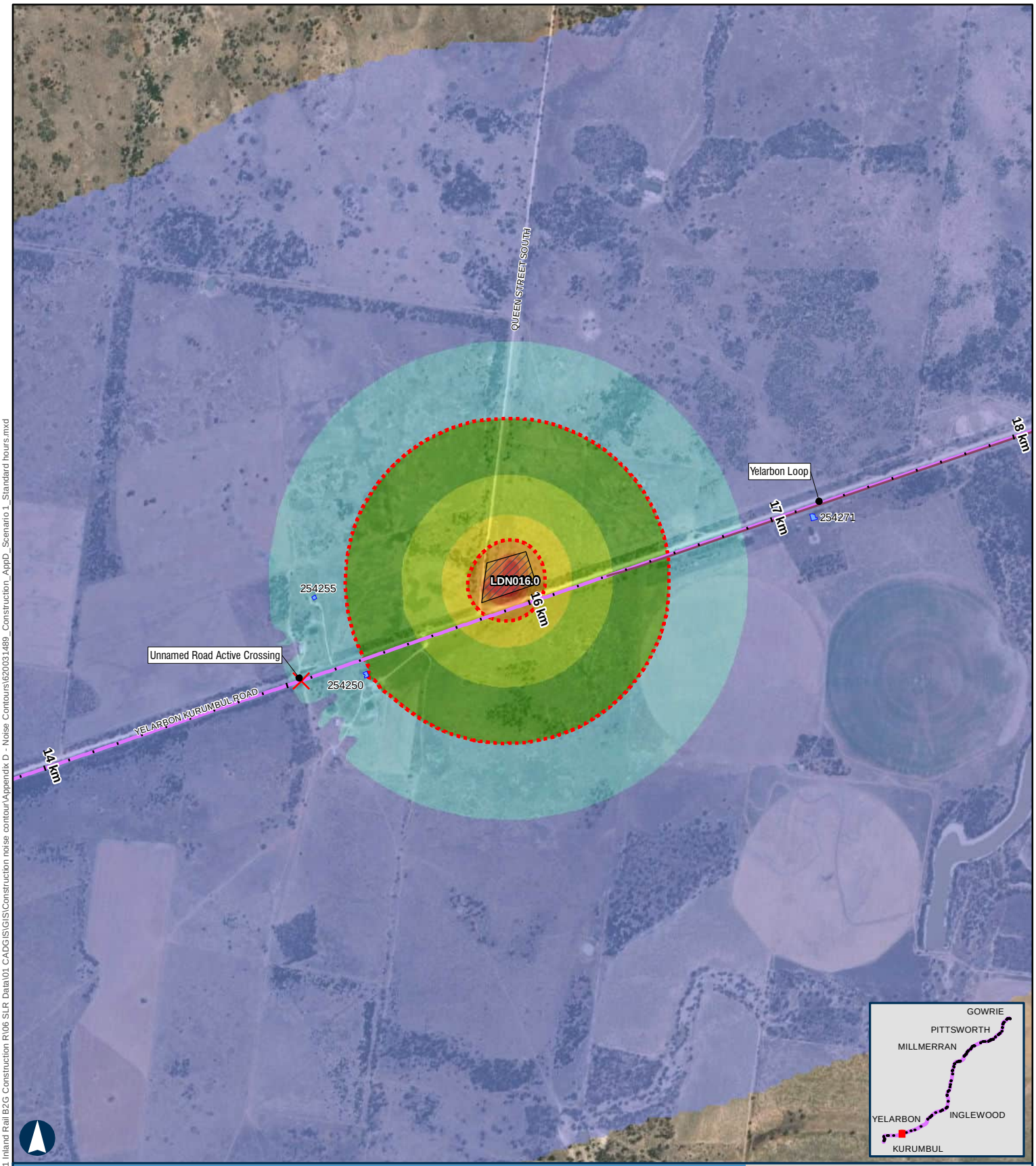

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 5 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

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- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
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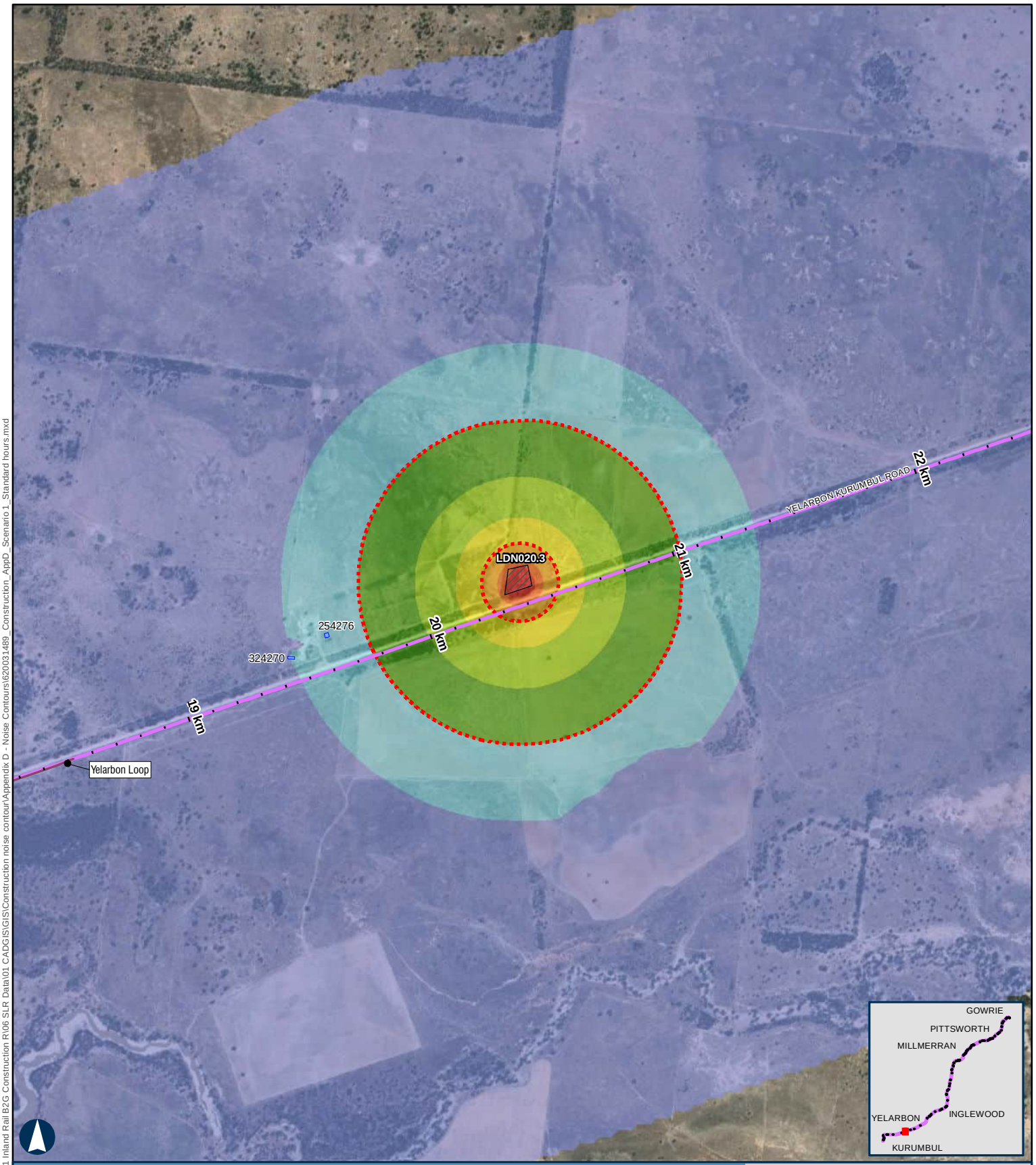

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 6 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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Sensitive Receptor Type
- Residential
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- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
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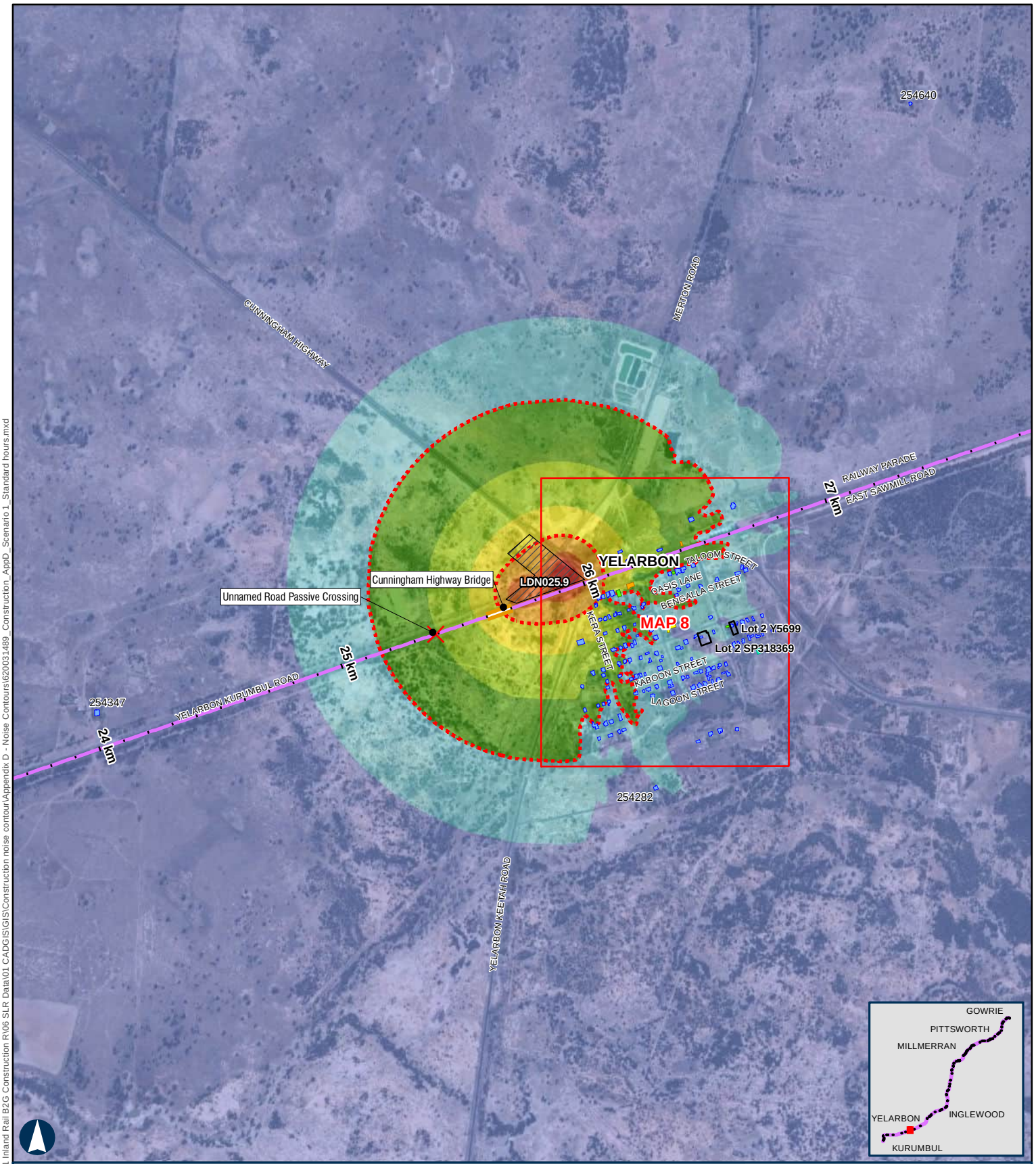

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 7 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

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Sensitive Receptor Type

- Residential
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- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
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- >75 dBA

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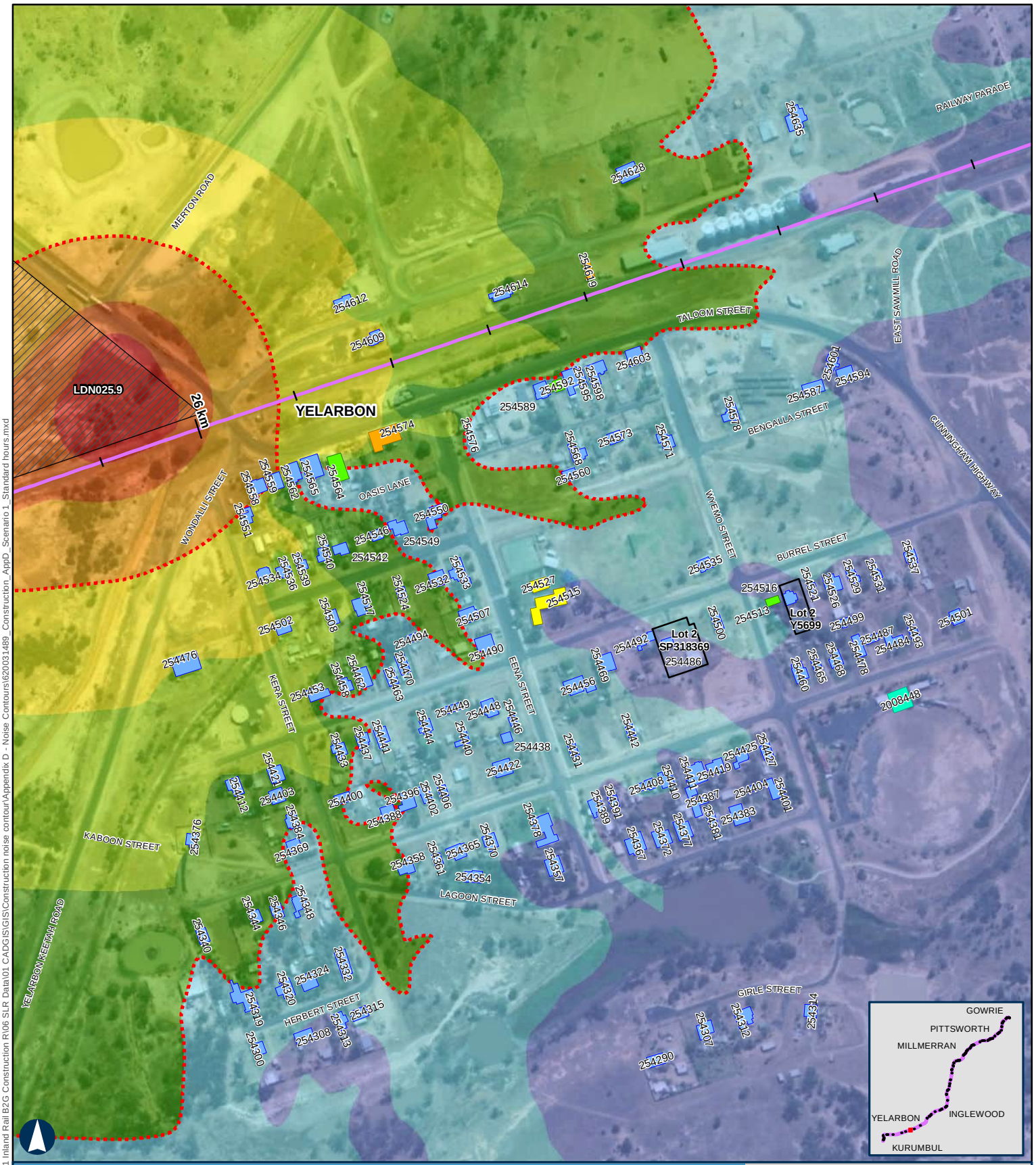

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 8 OF 48

100 m

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Paper: A4 Scale: 1:5,000
Date: 08-Nov-2024
Author: JG

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- Criteria (50 and 65 dBA)
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- Work Area
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Sensitive Receptor Type
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Noise Levels
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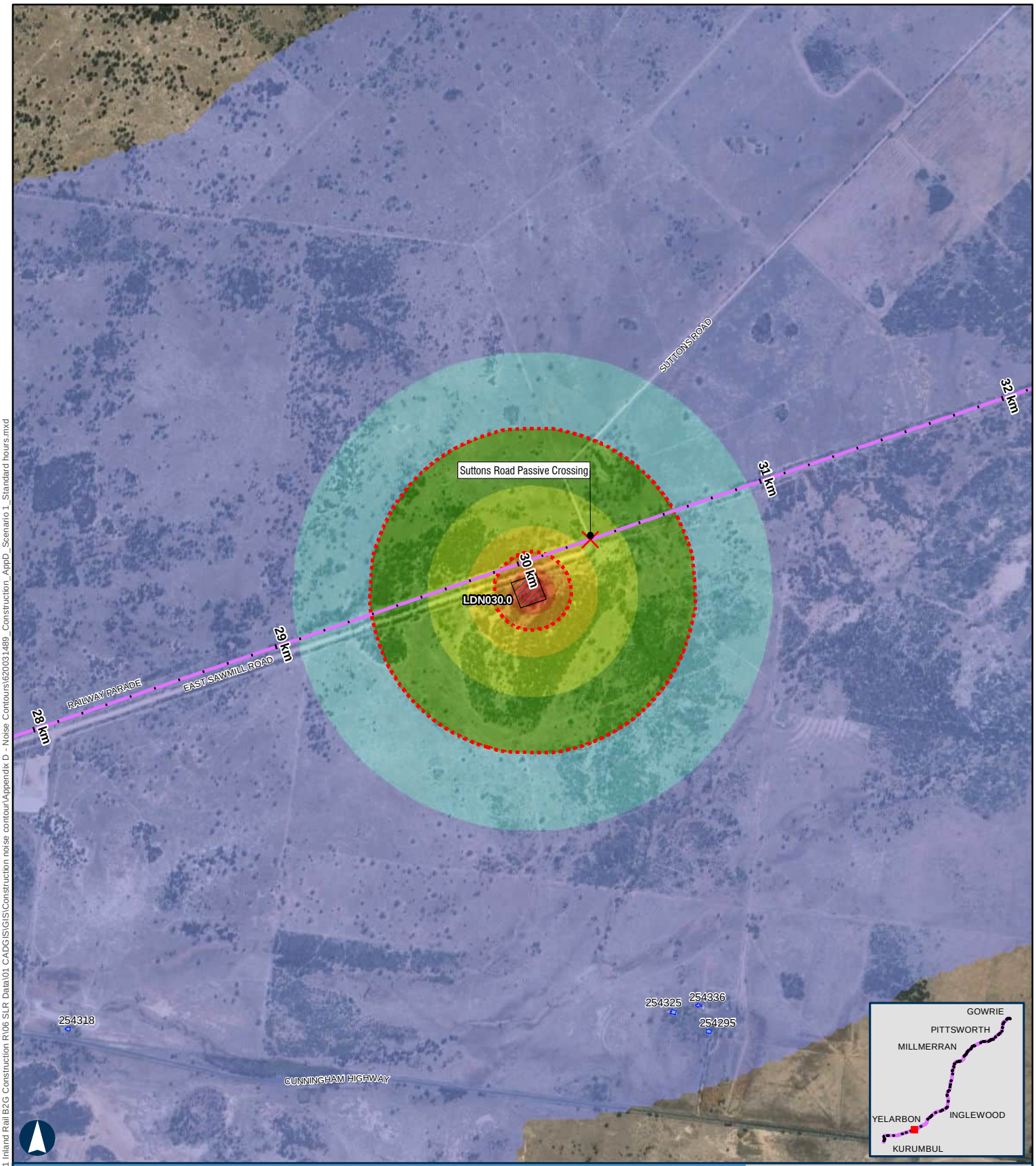

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 9 OF 48

100 m

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

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- Rail Alignment/ Centreline
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- Koala Habitat Area

Sensitive Receptor Type
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- Future Developments

Noise Levels
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- 50-55 dBA
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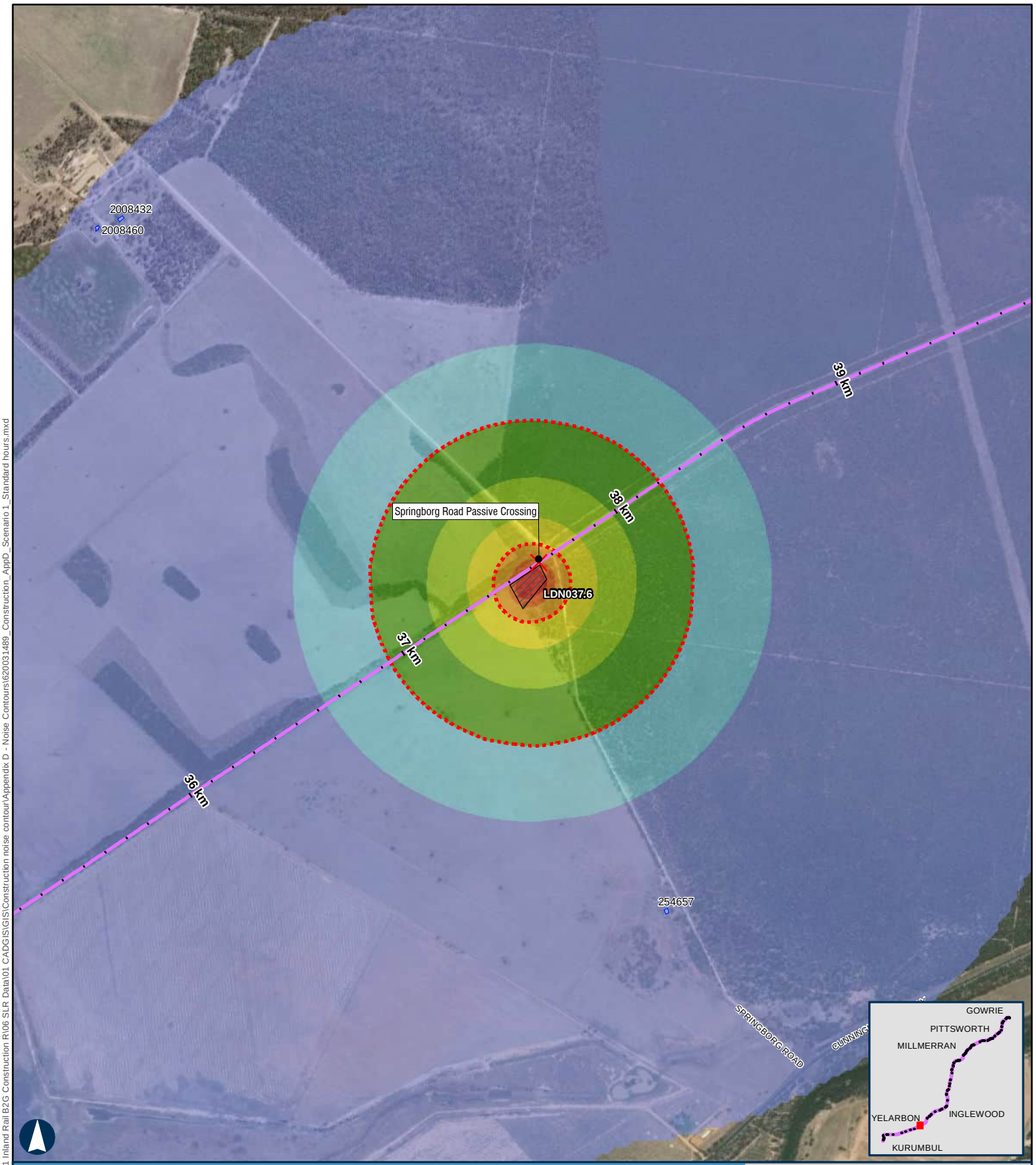

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 10 OF 48

100 m

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- Future Developments

Noise Levels
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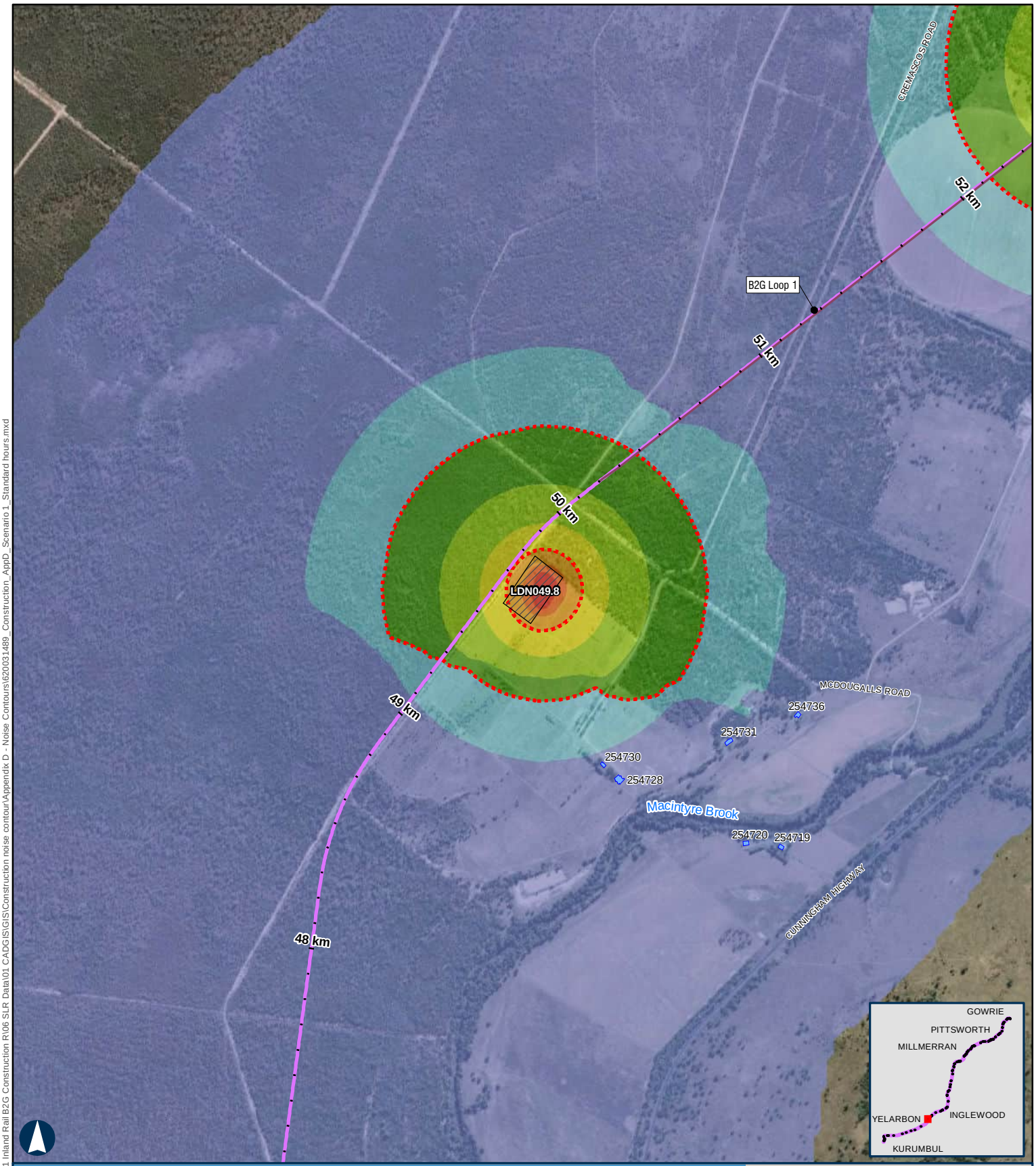

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 11 OF 48

100 m

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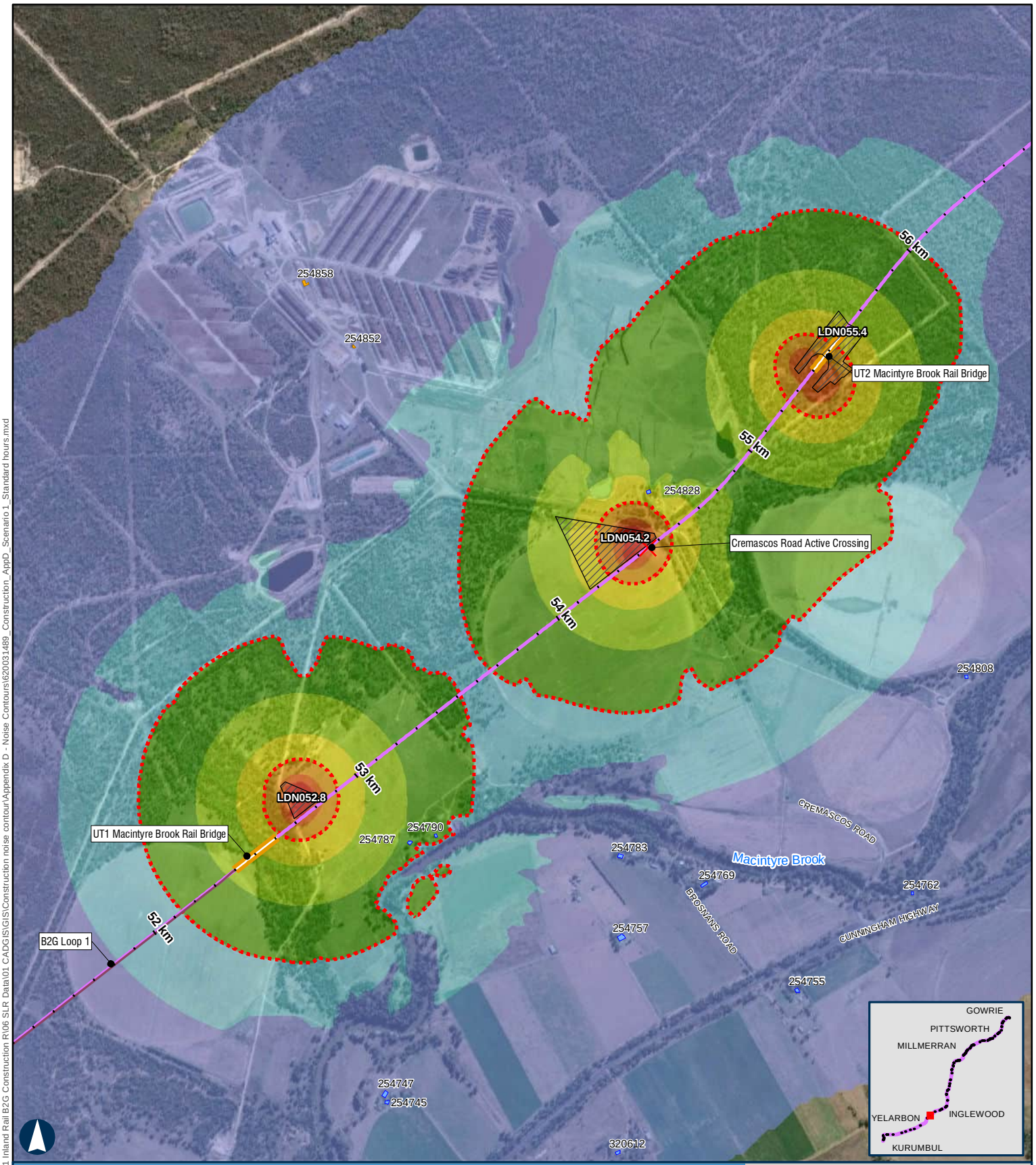

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 12 OF 48

100 m

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Noise Levels
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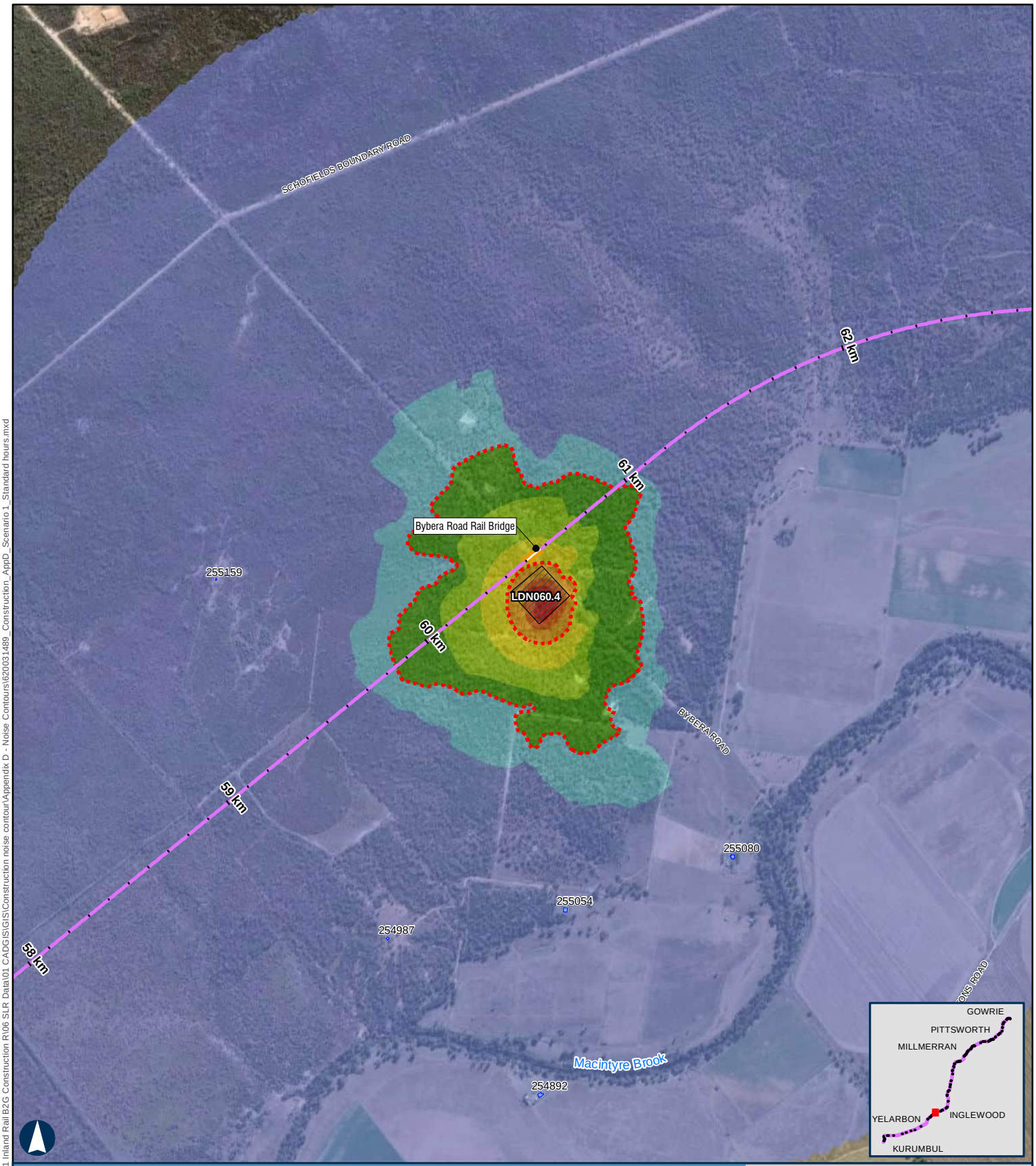

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 13 OF 48

100 m

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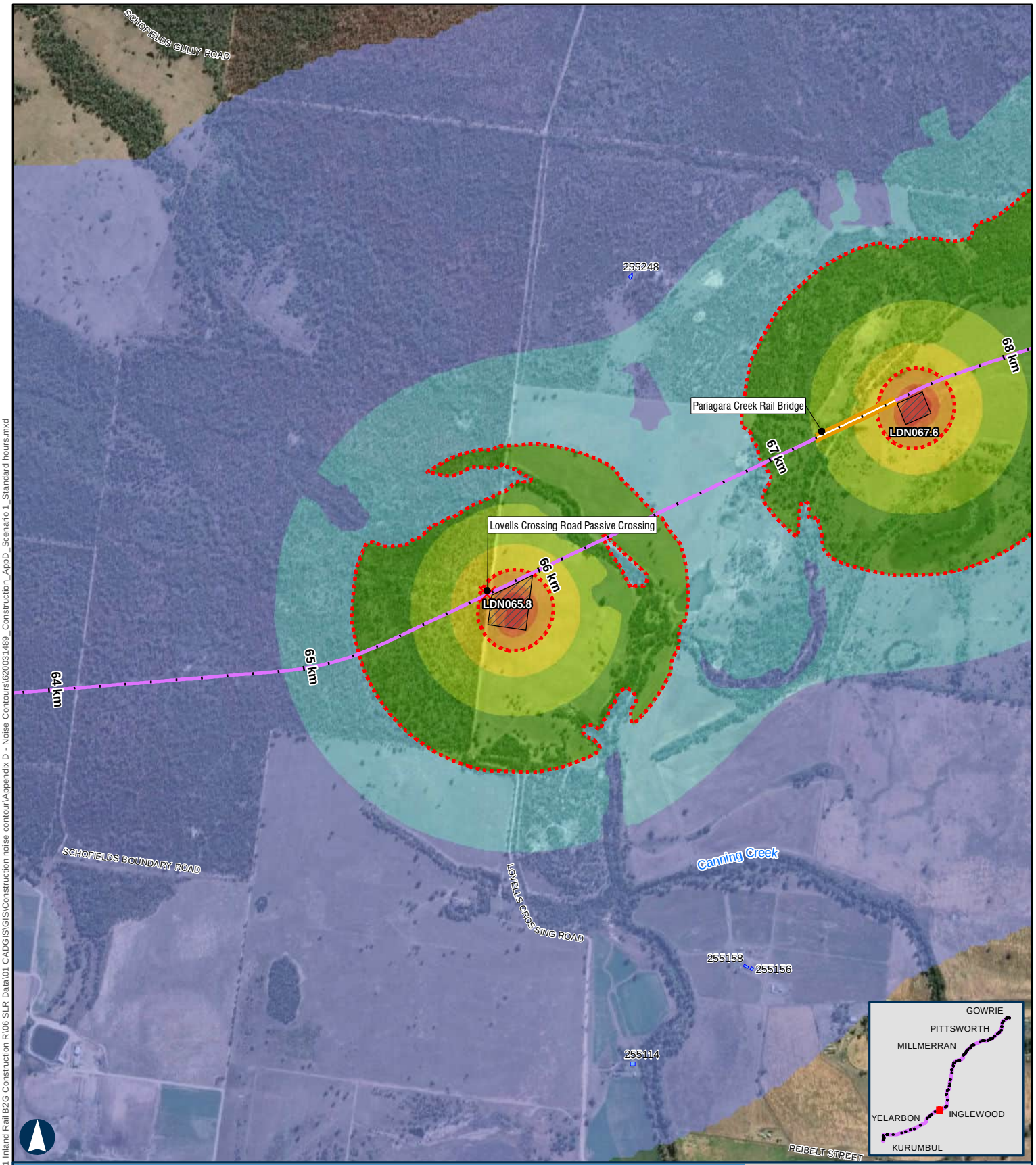

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 14 OF 48

100 m

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- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

ARTC InlandRail

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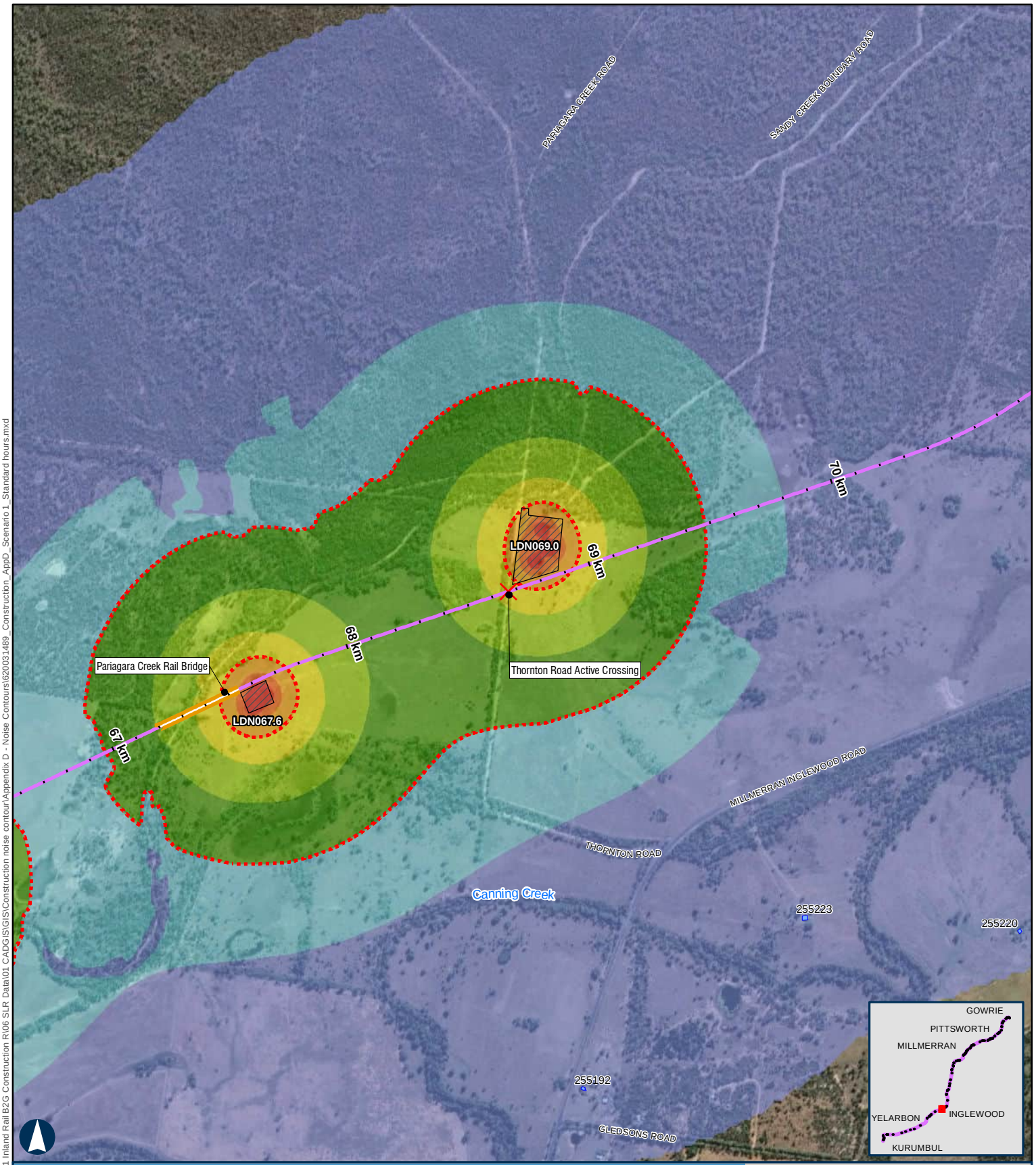
\\au.sir.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R106 SLR Data\01 CADGIS\GIS\Construction noise contour\Appendix D - Noise Contours\620031489_Construction_AppD_Scenario 1_Standard hours.mxd



BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 15 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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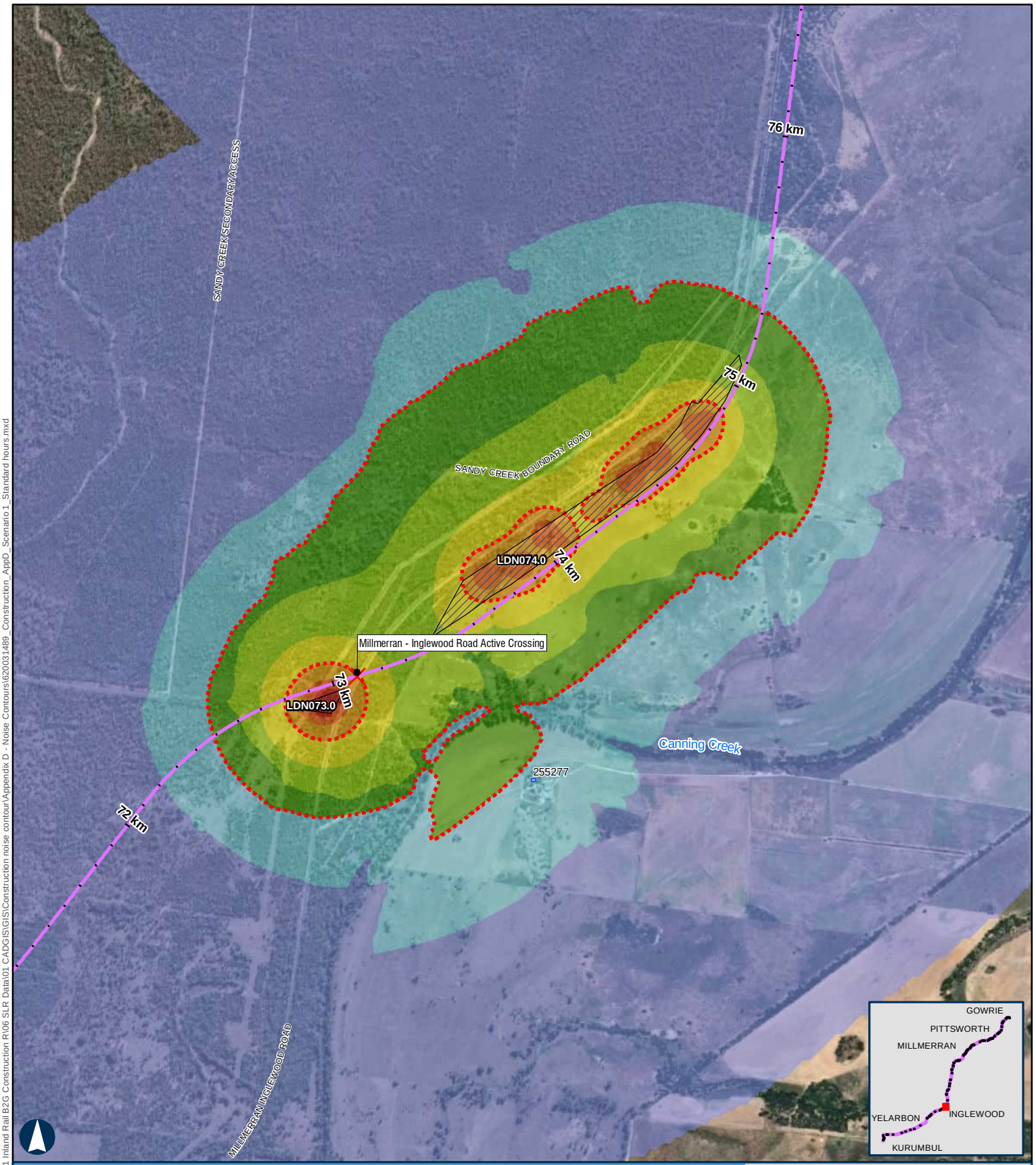

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 16 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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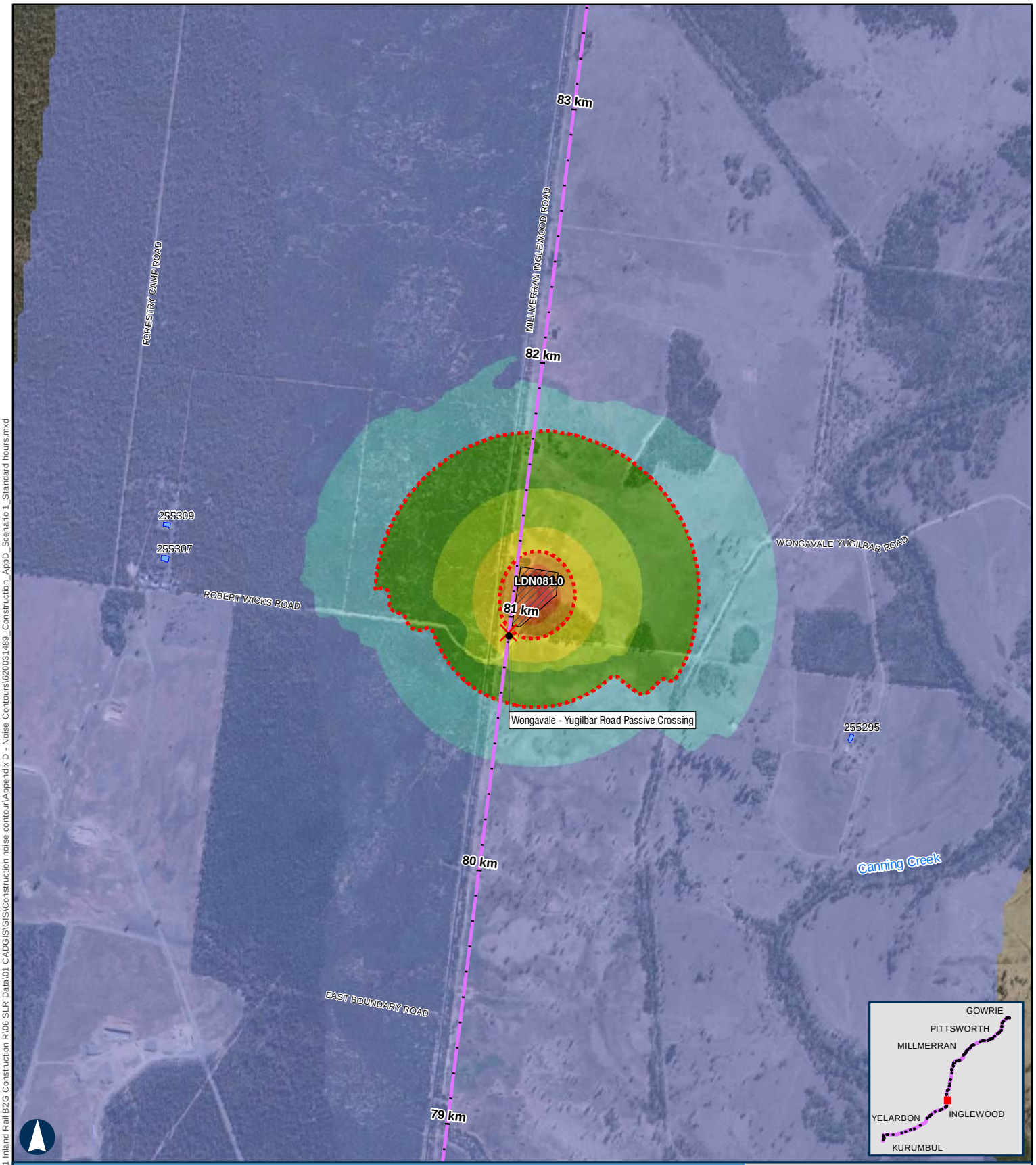

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 17 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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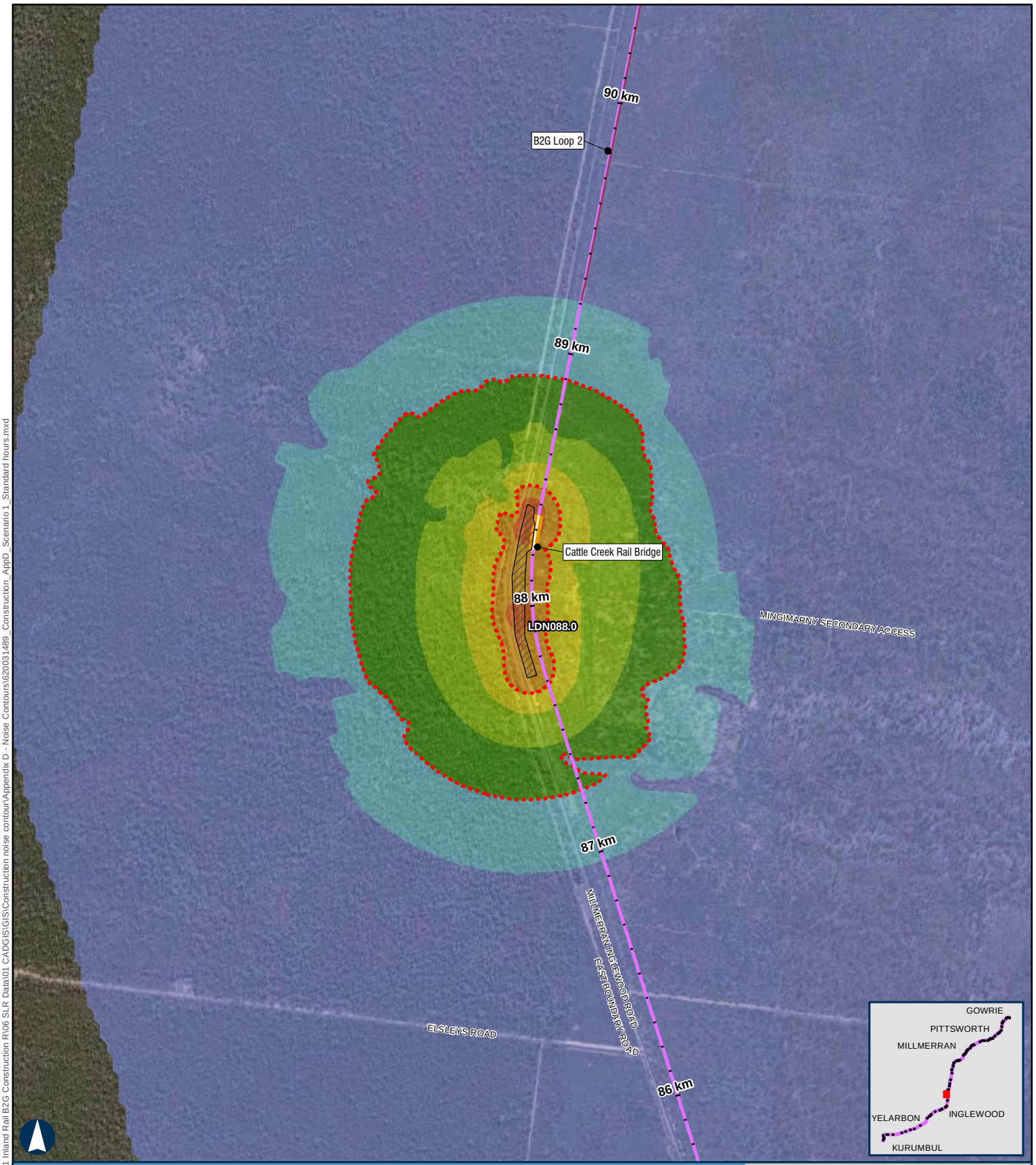

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 18 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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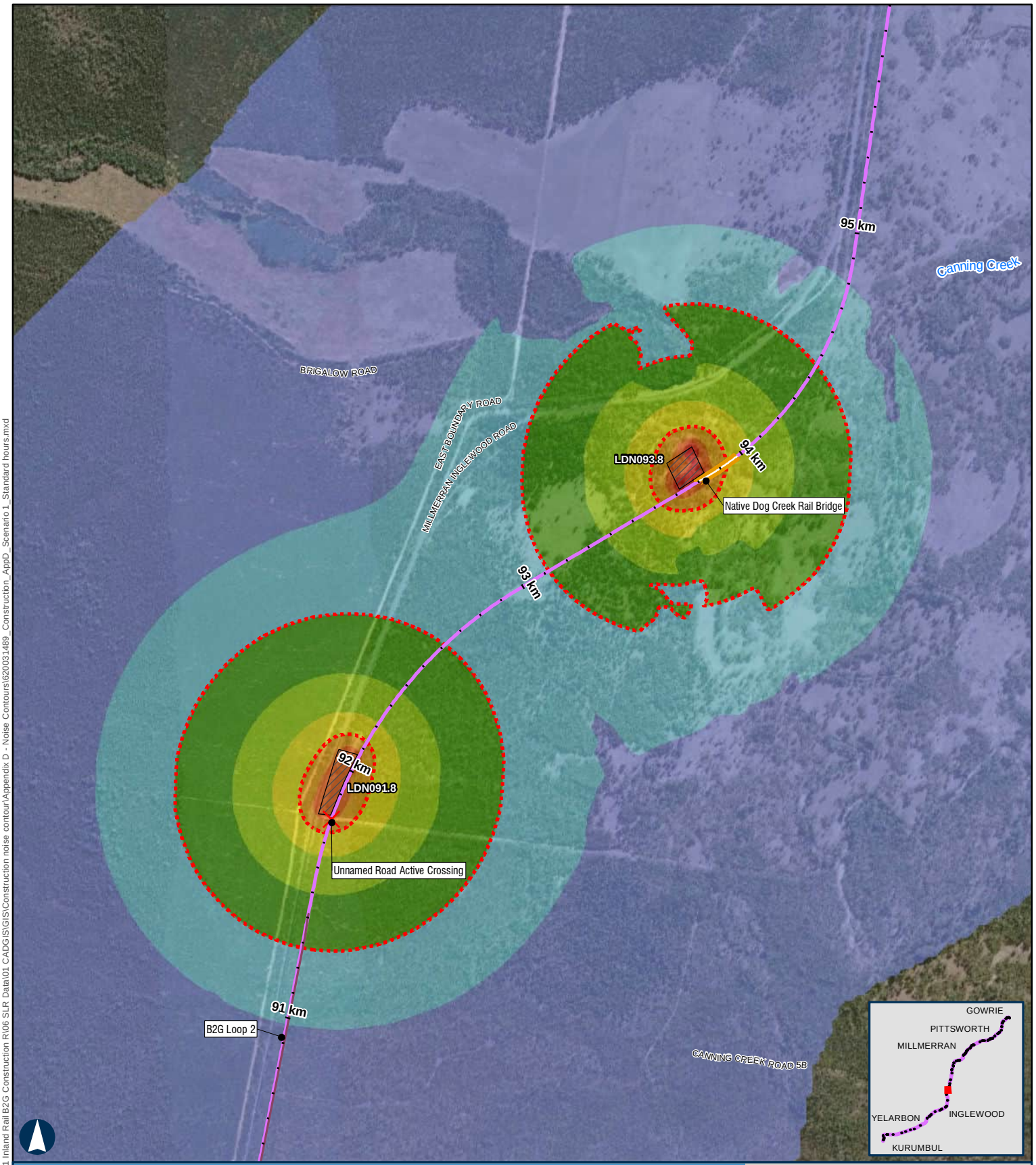

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 19 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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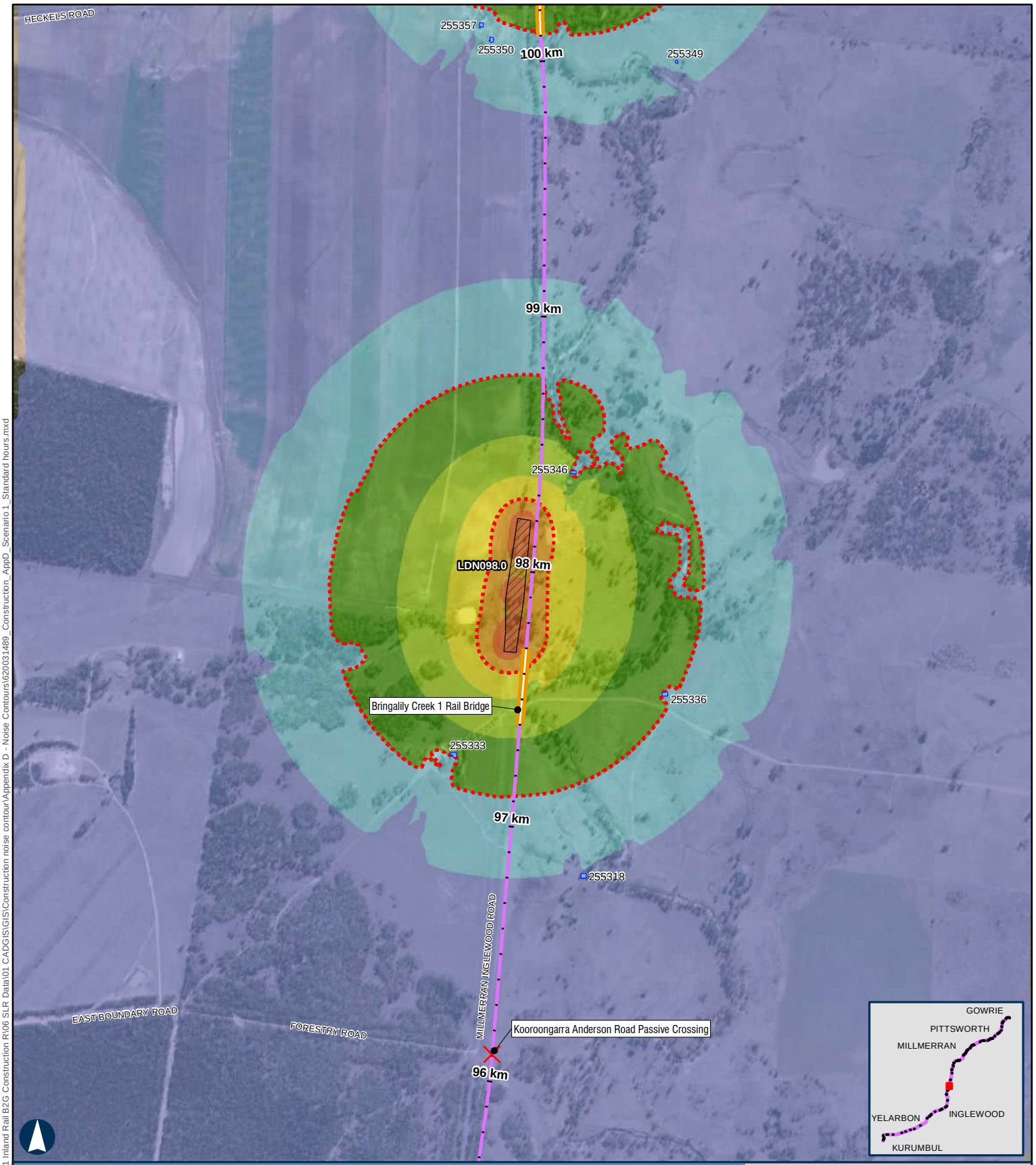

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 20 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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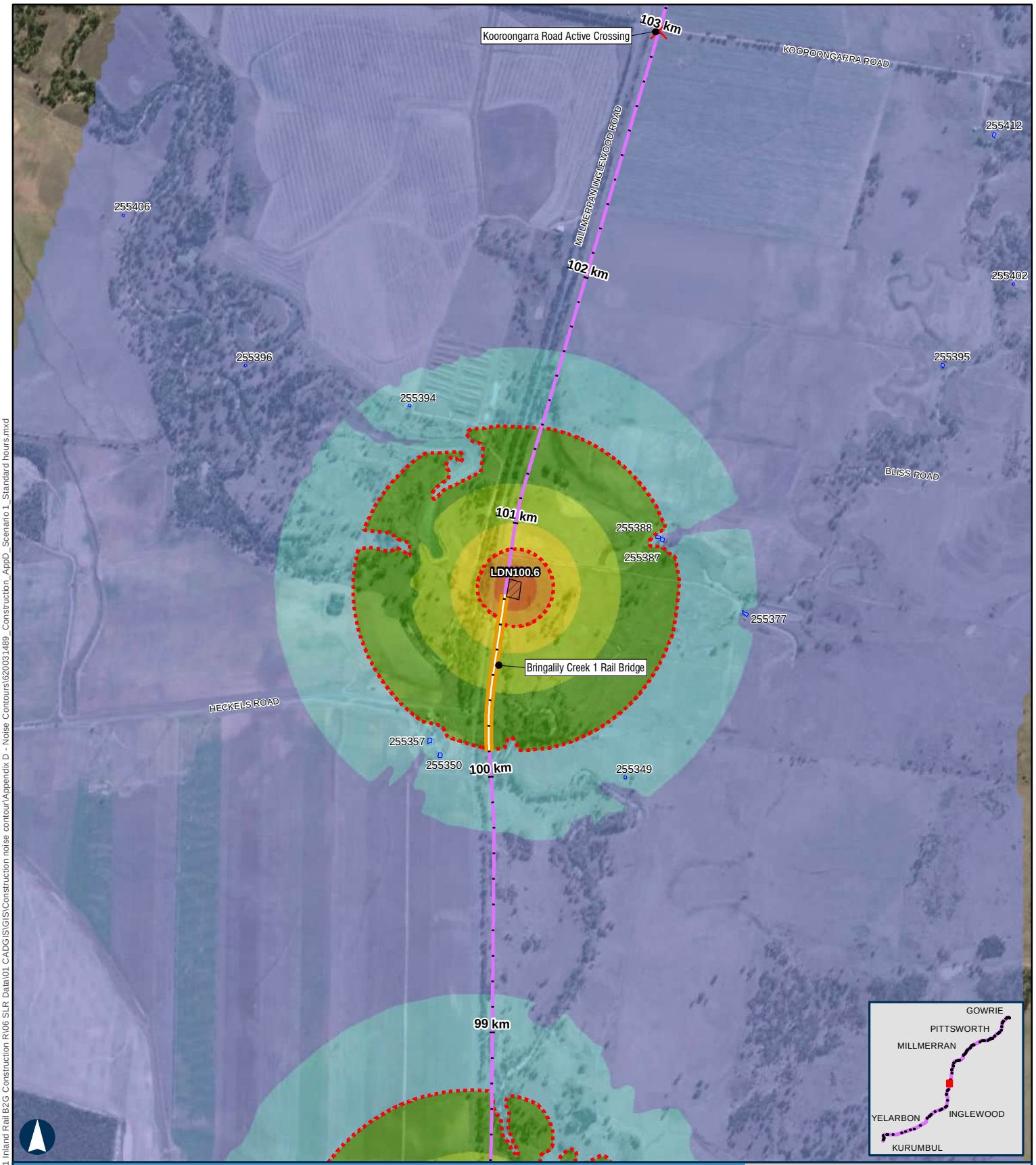

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 21 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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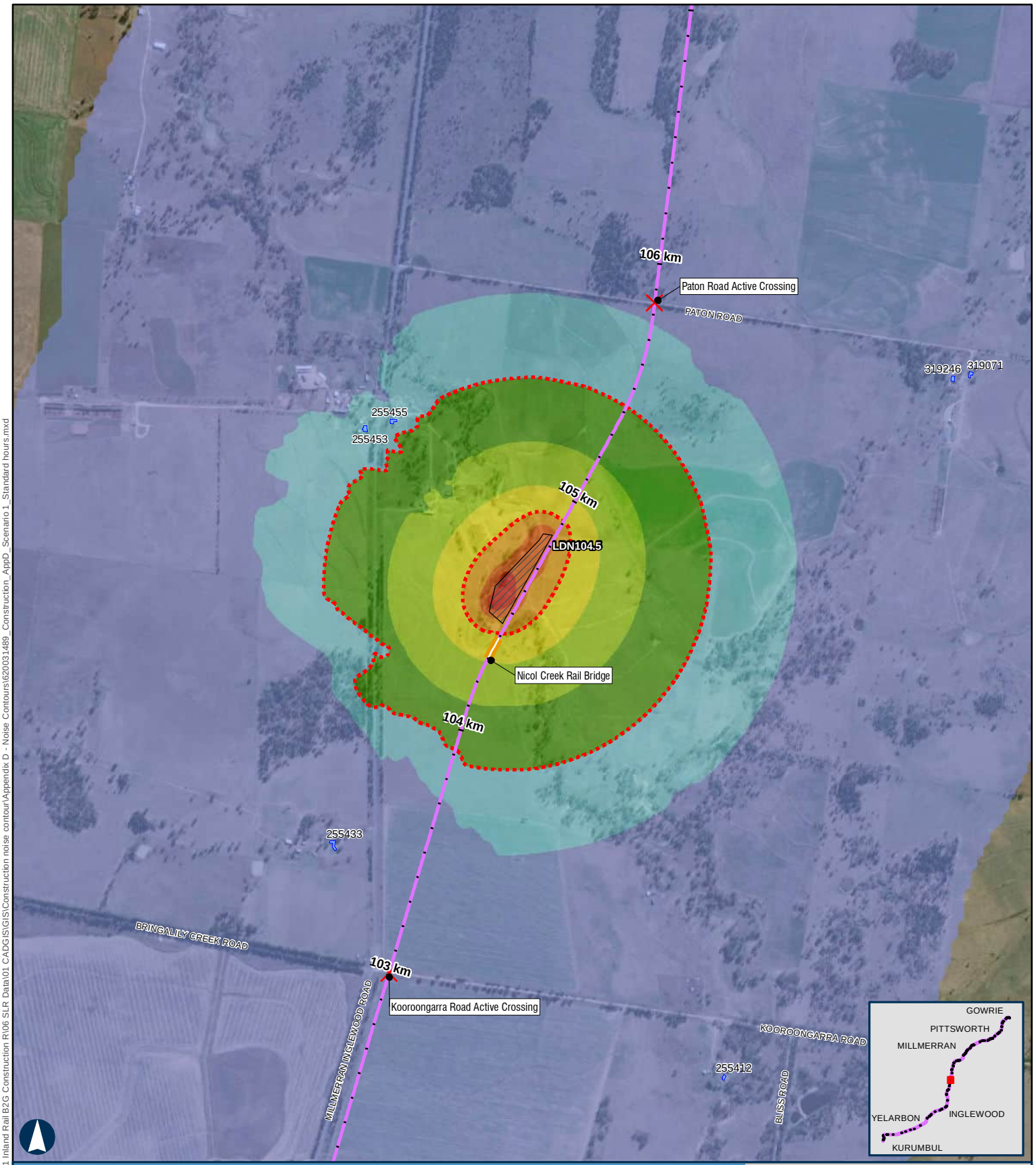

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 22 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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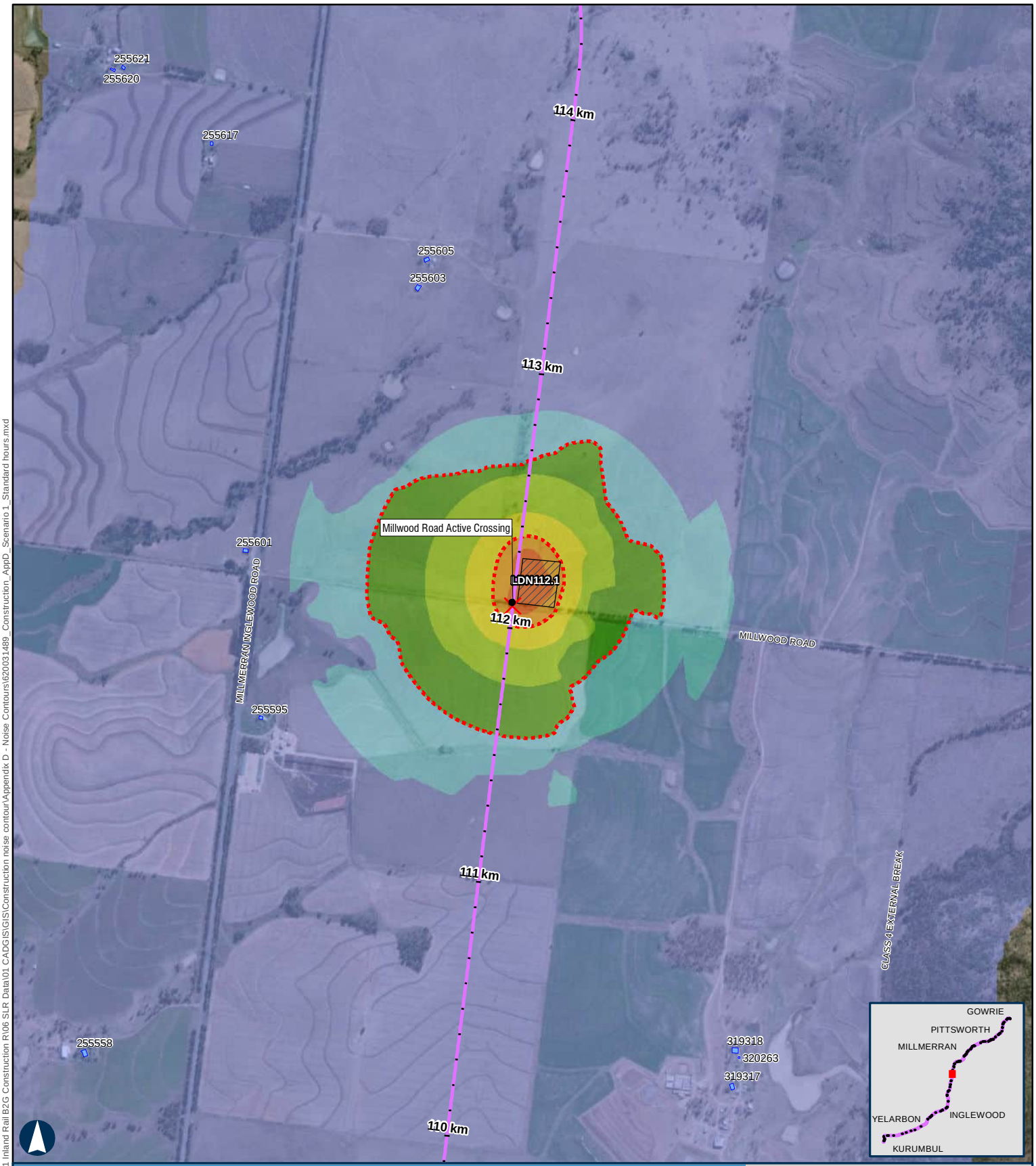

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 23 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
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- >75 dBA

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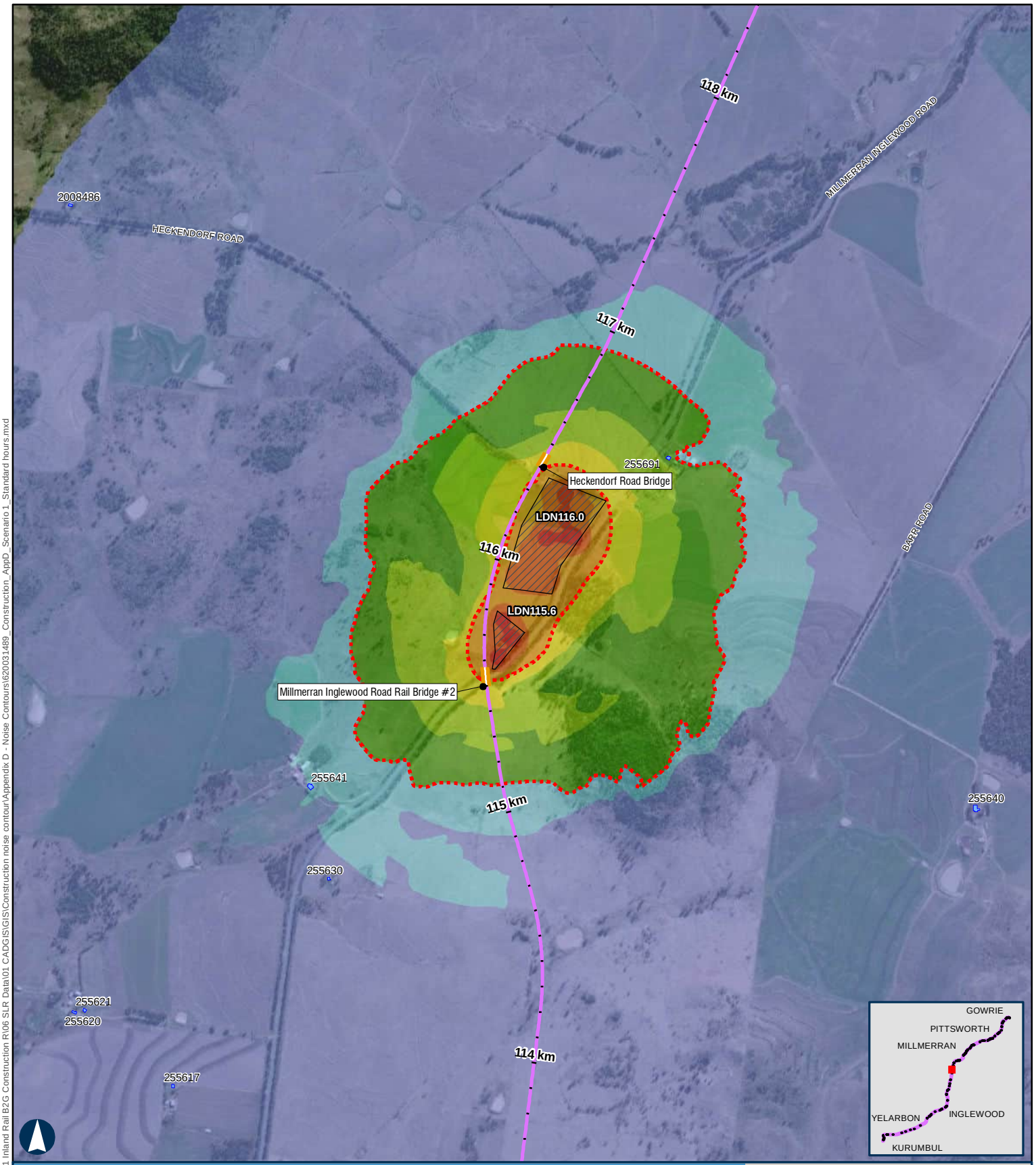

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 24 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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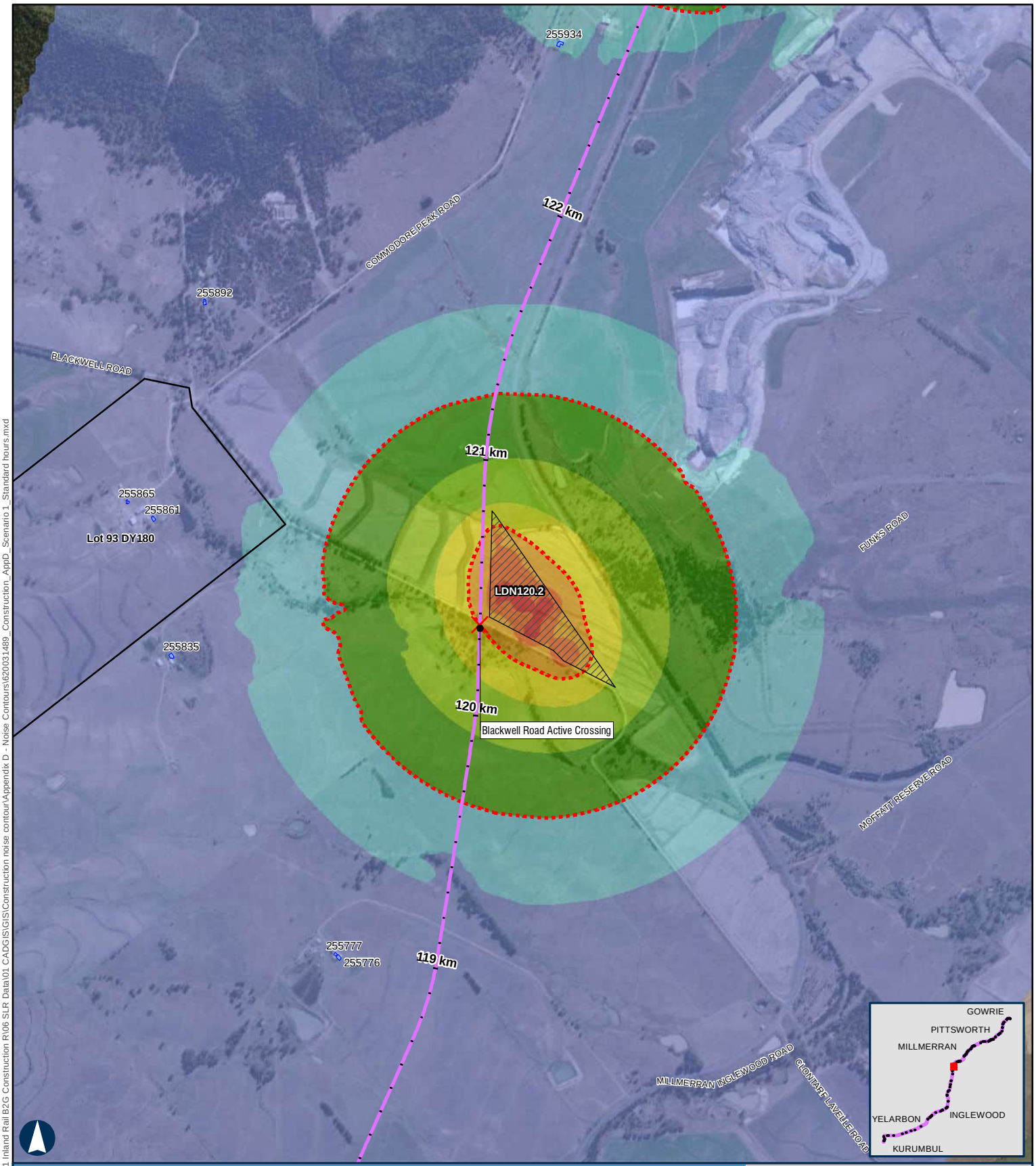

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 25 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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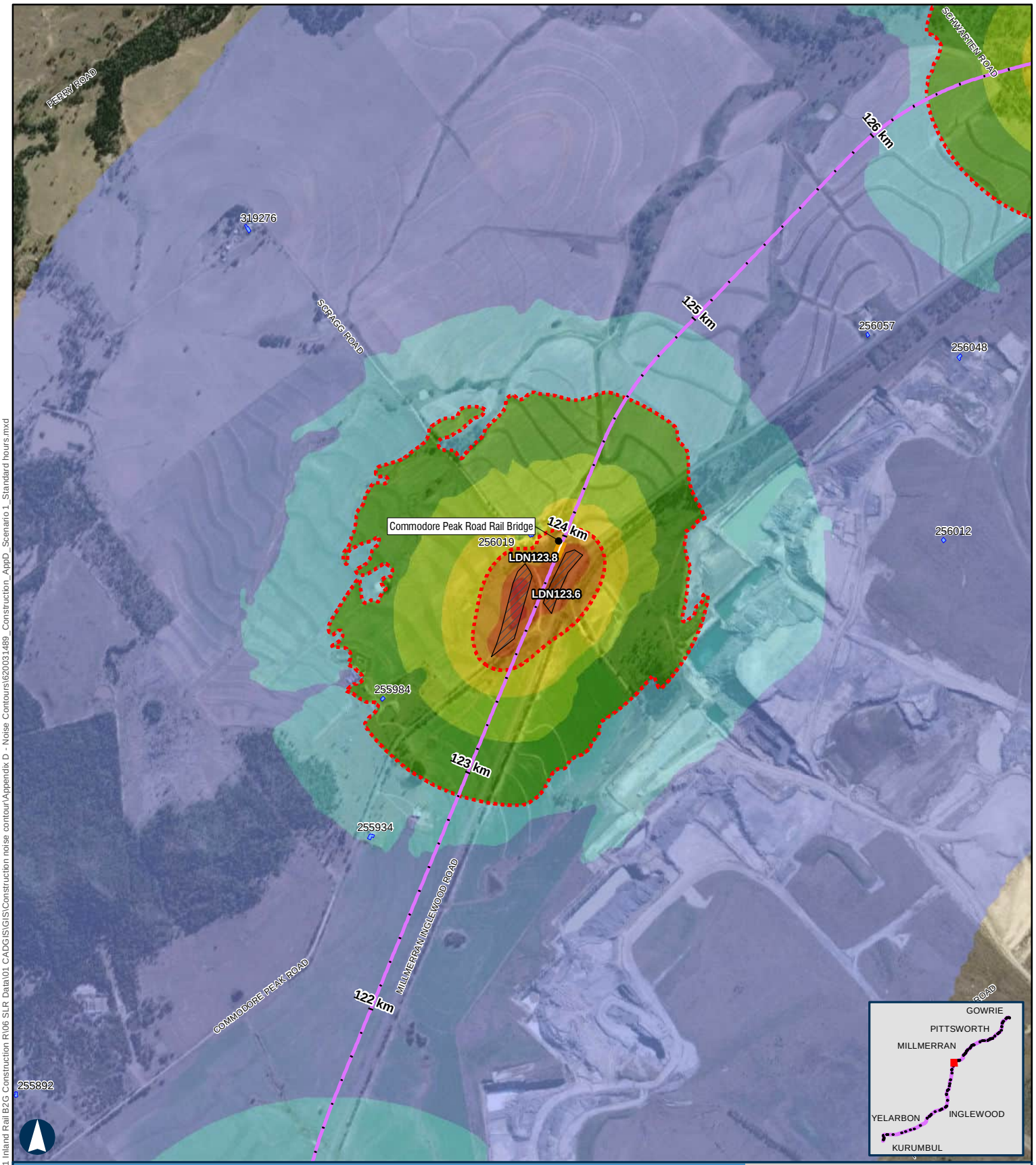

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 26 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
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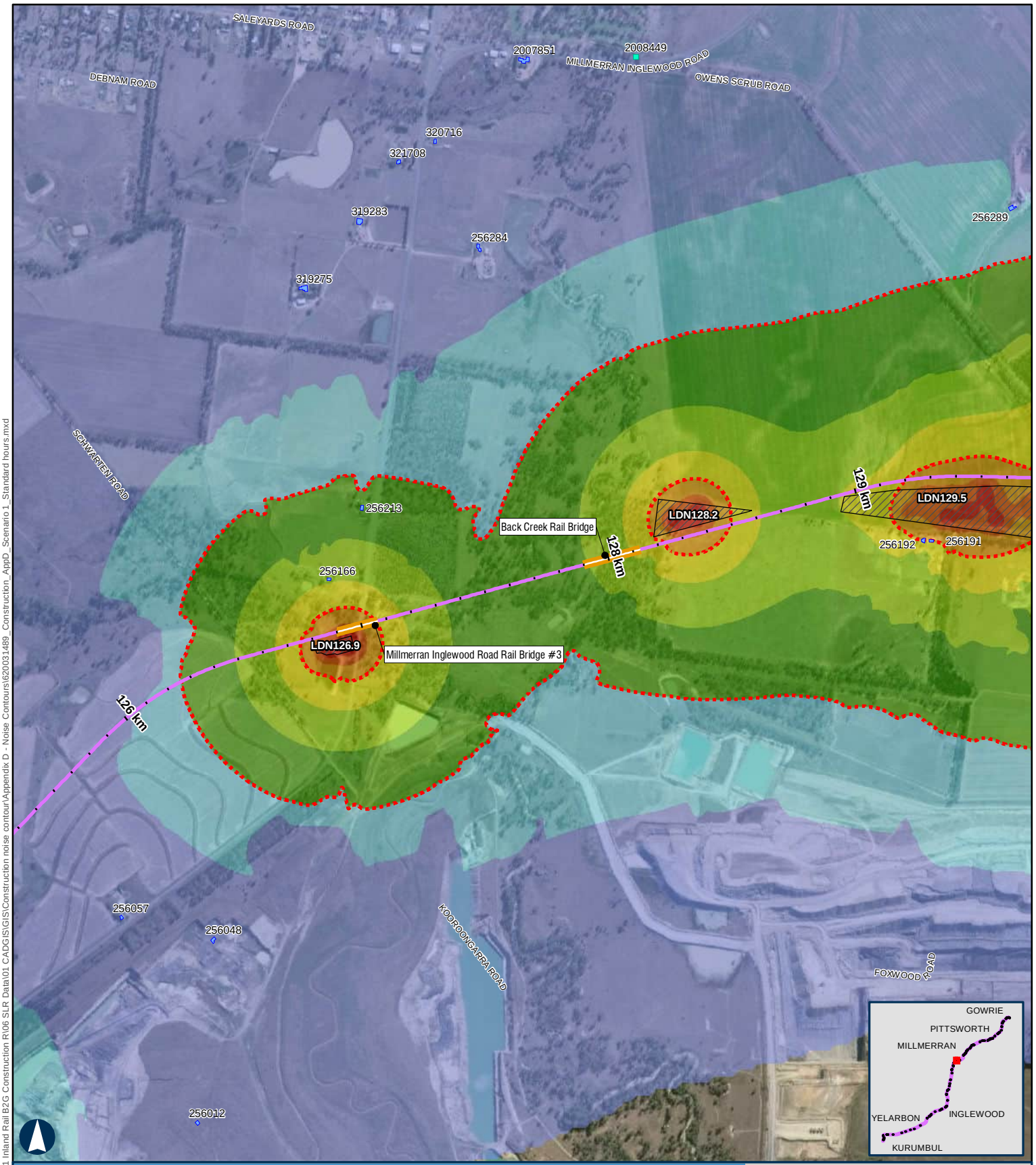

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 27 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

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- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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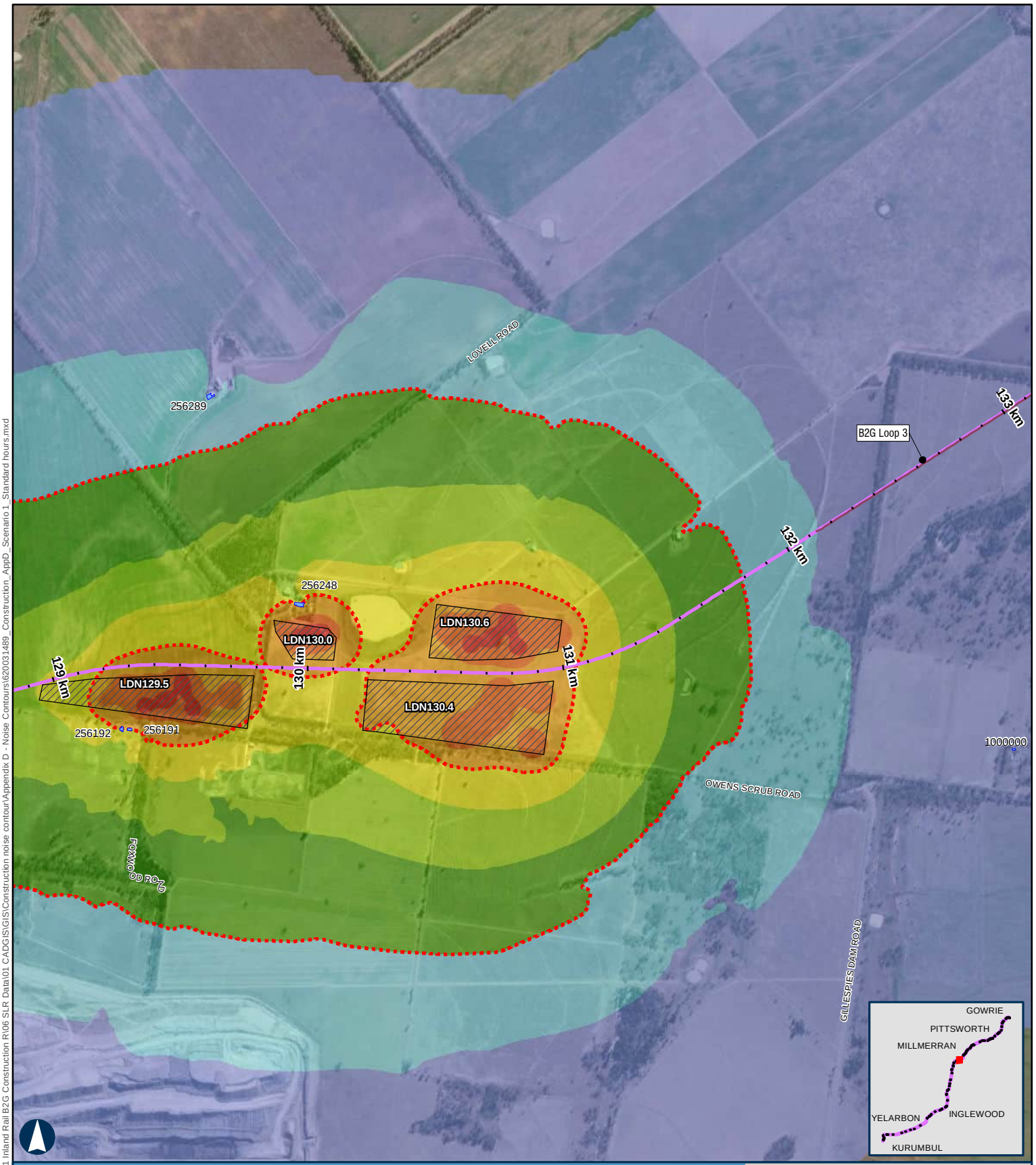

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 28 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

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- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
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- Koala Habitat Area

Sensitive Receptor Type
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- Community
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Noise Levels
- <45 dBA
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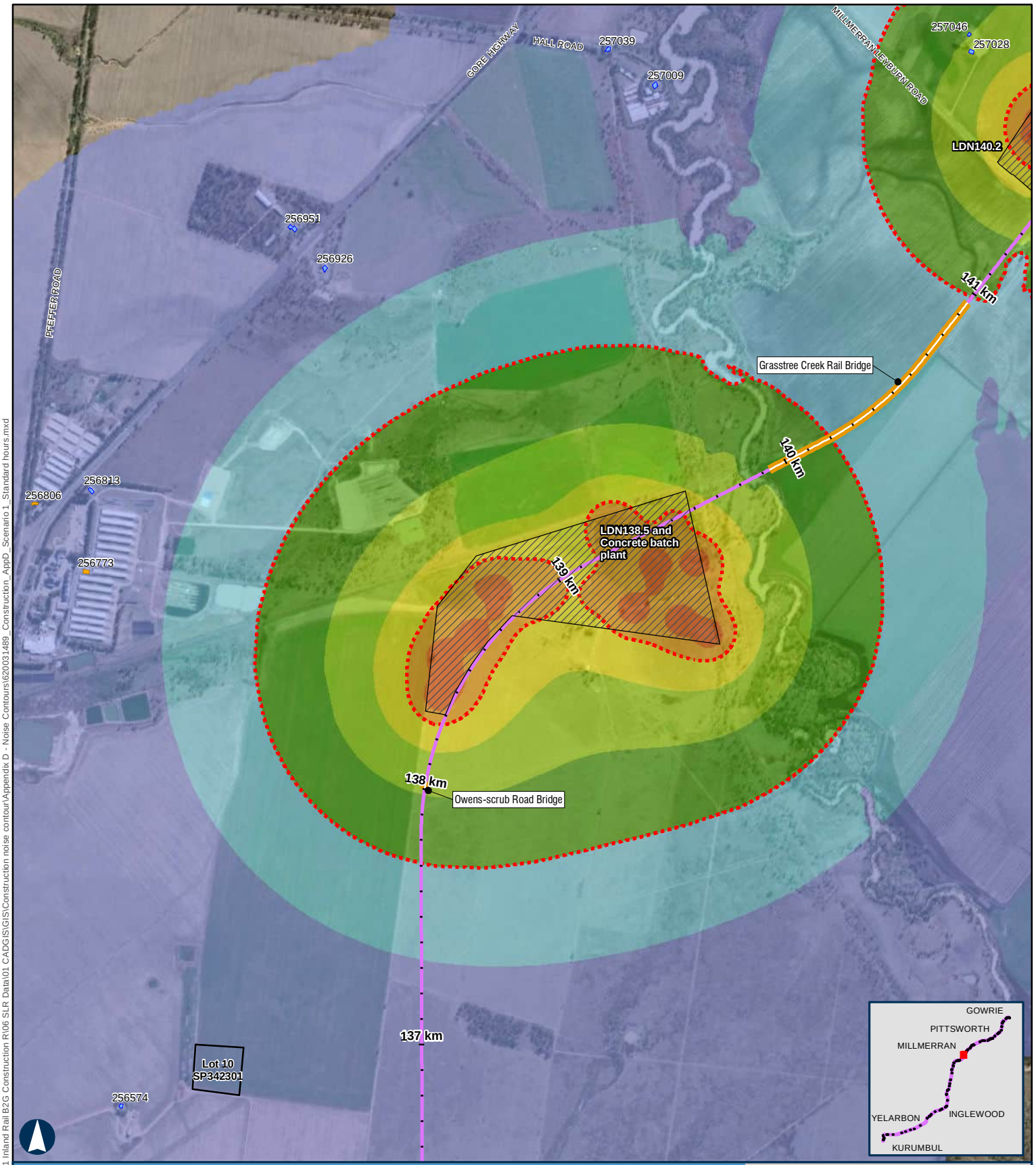

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 29 OF 48

100 m

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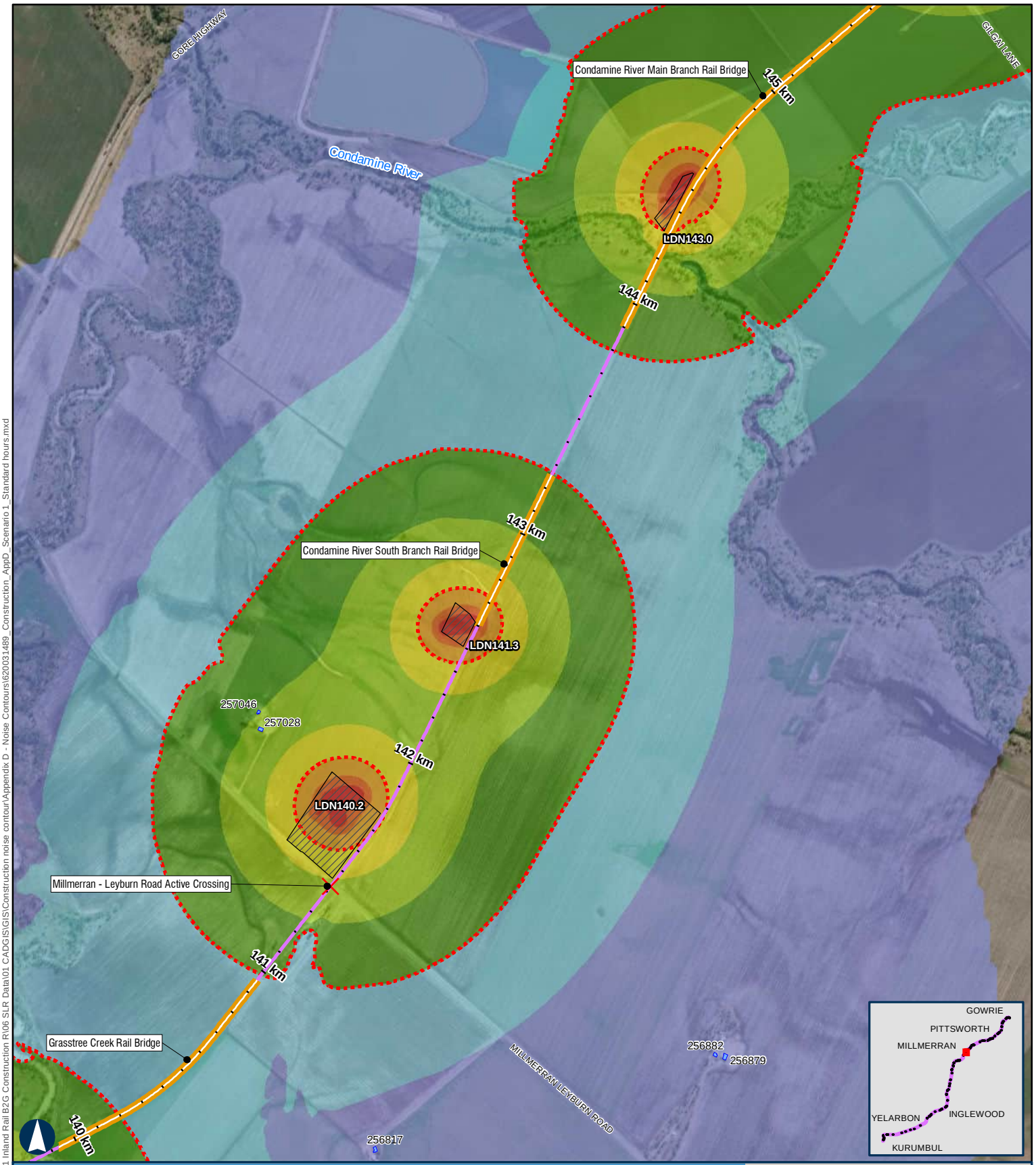

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 30 OF 48

100 m

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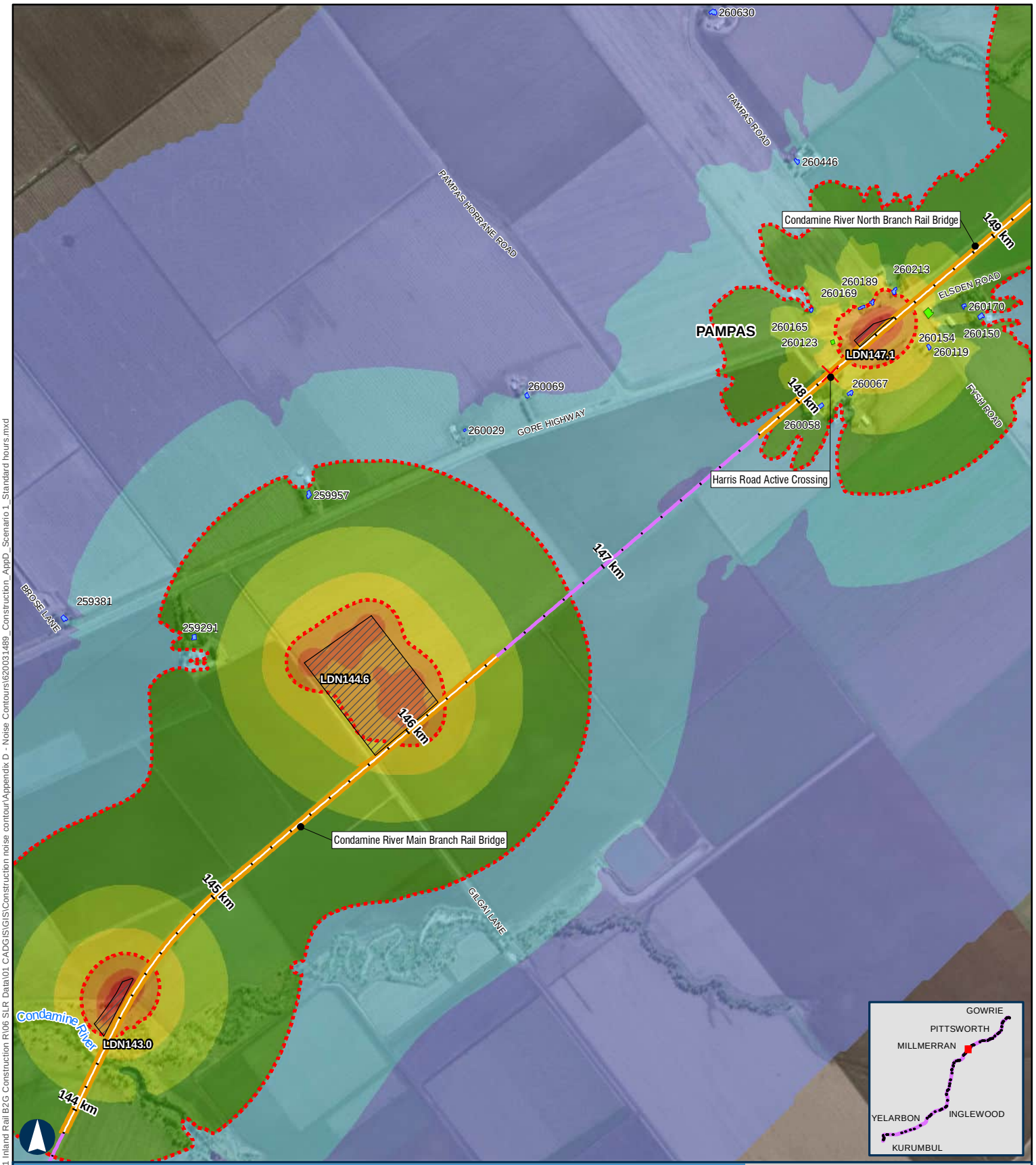

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 31 OF 48

100 m

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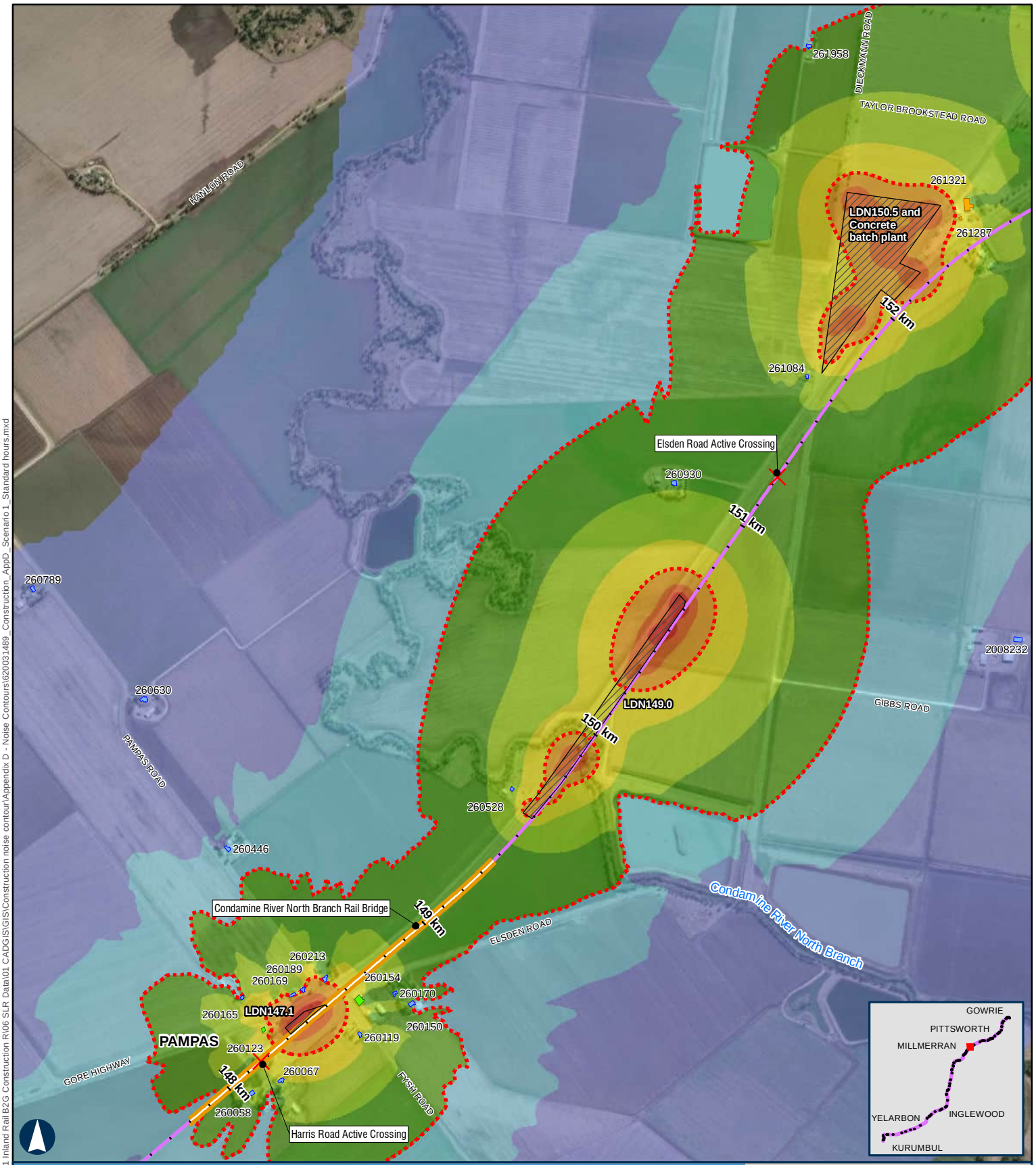

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 32 OF 48

100 m

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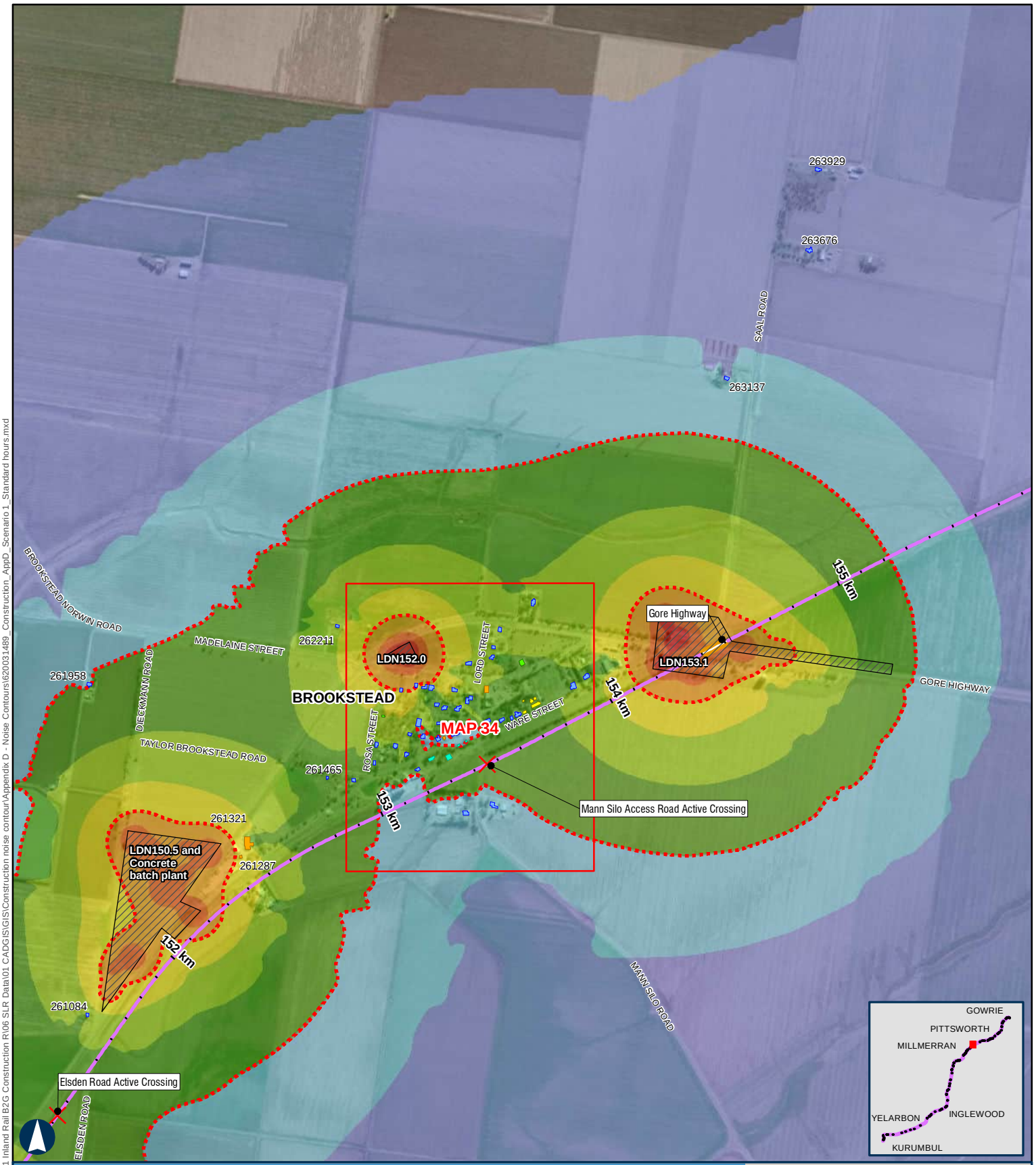

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 33 OF 48

100 m

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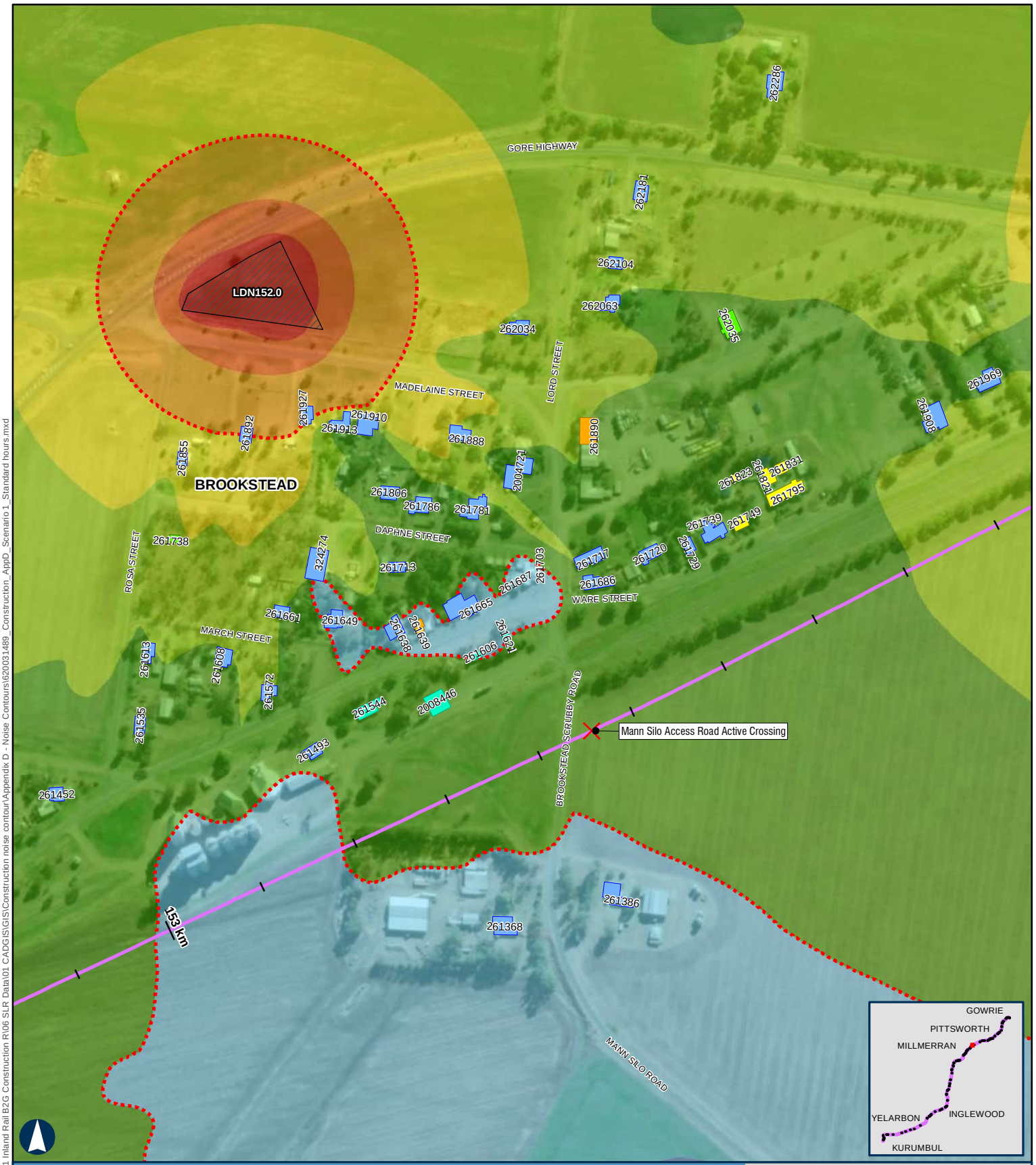

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 34 OF 48

100 m

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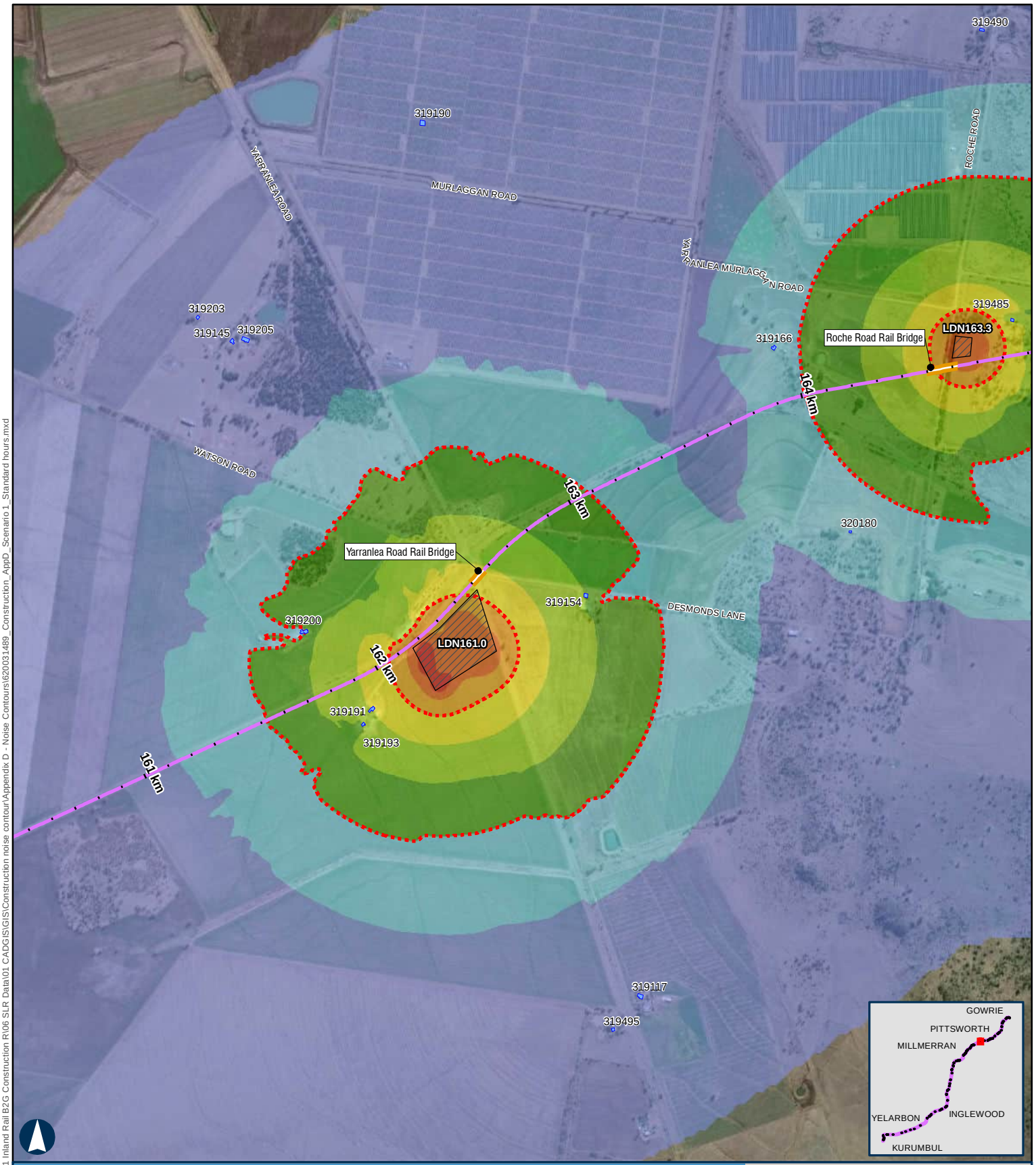

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 35 OF 48

100 m

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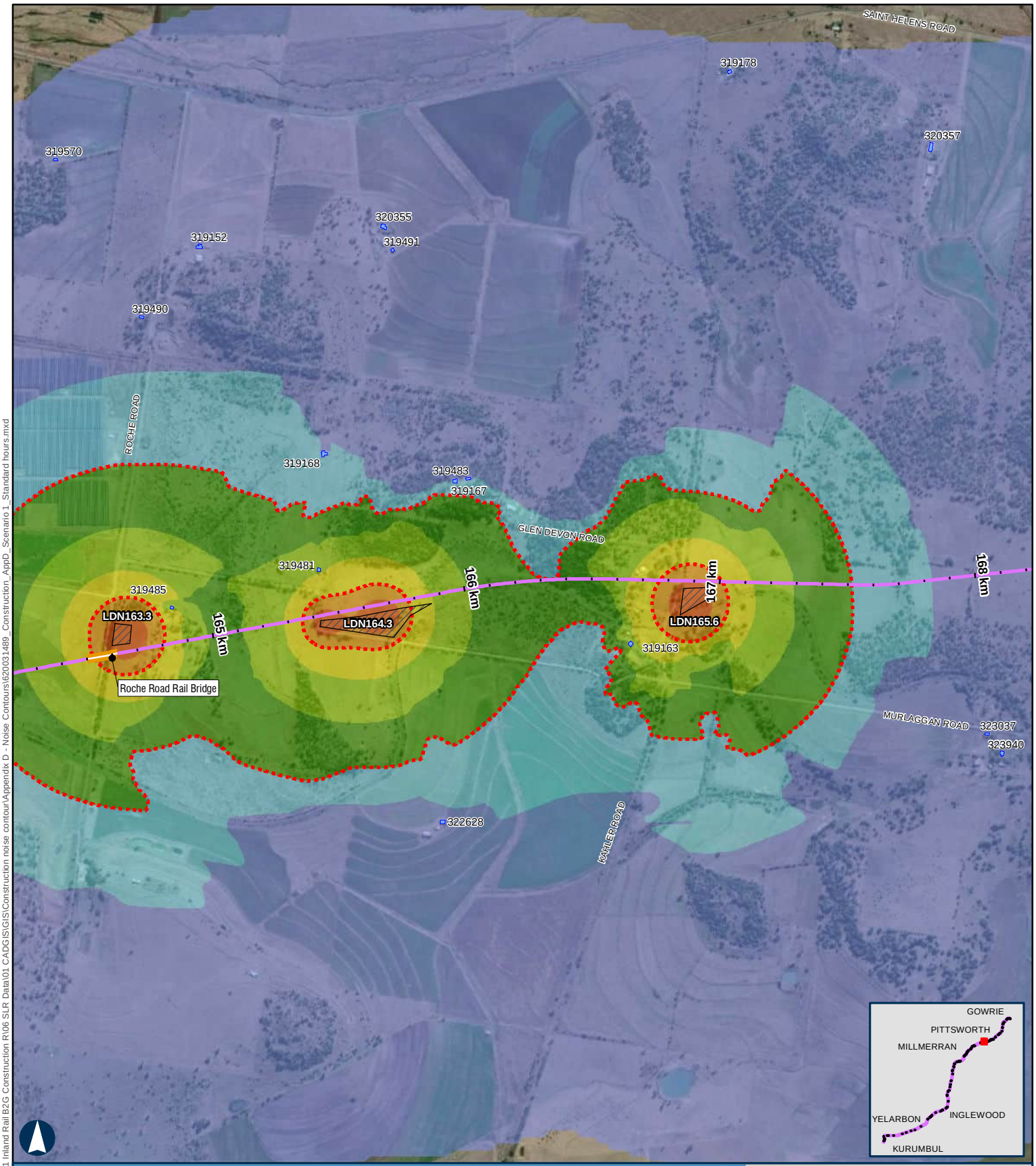

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 36 OF 48

100 m

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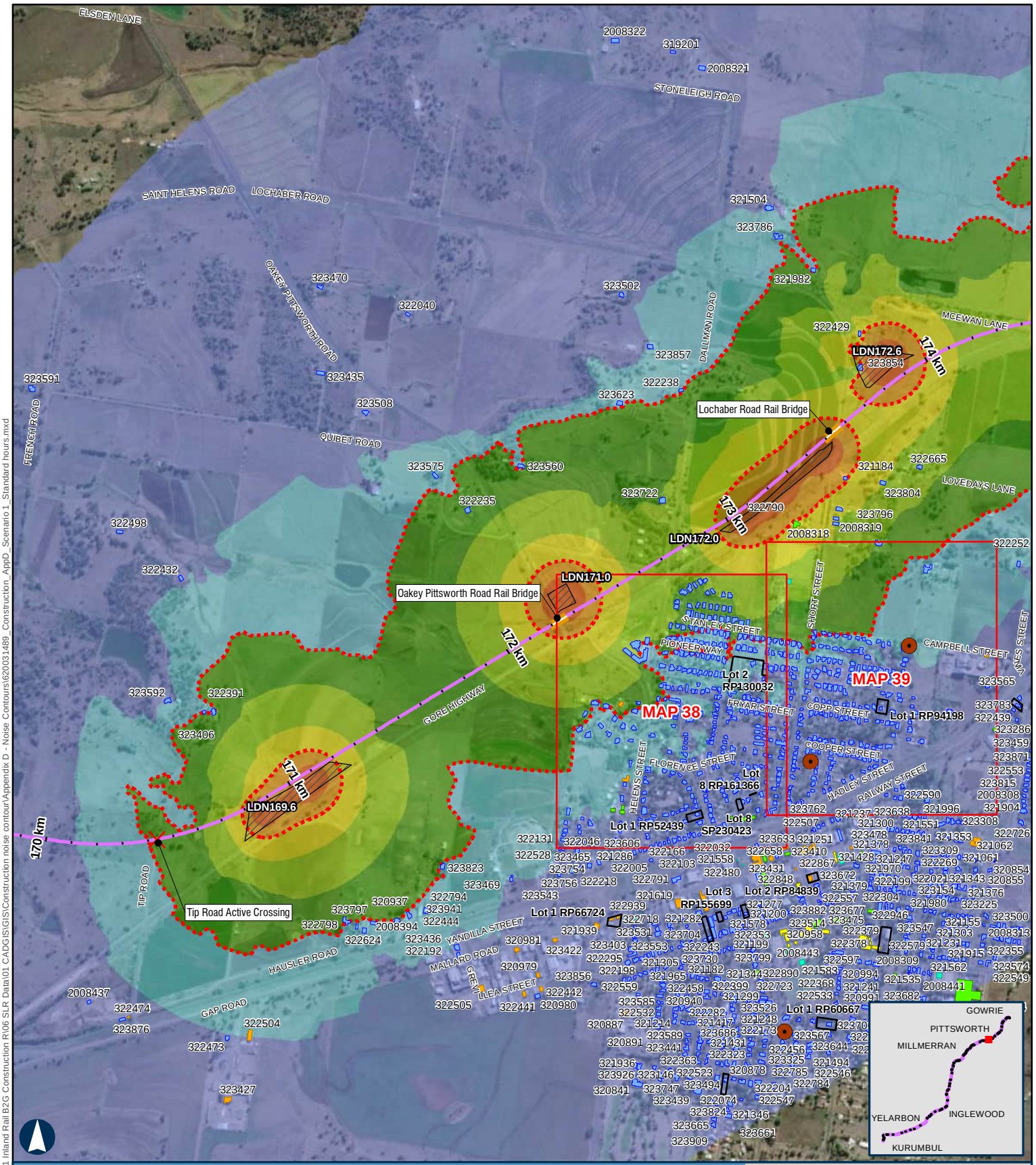

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Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 37 OF 48

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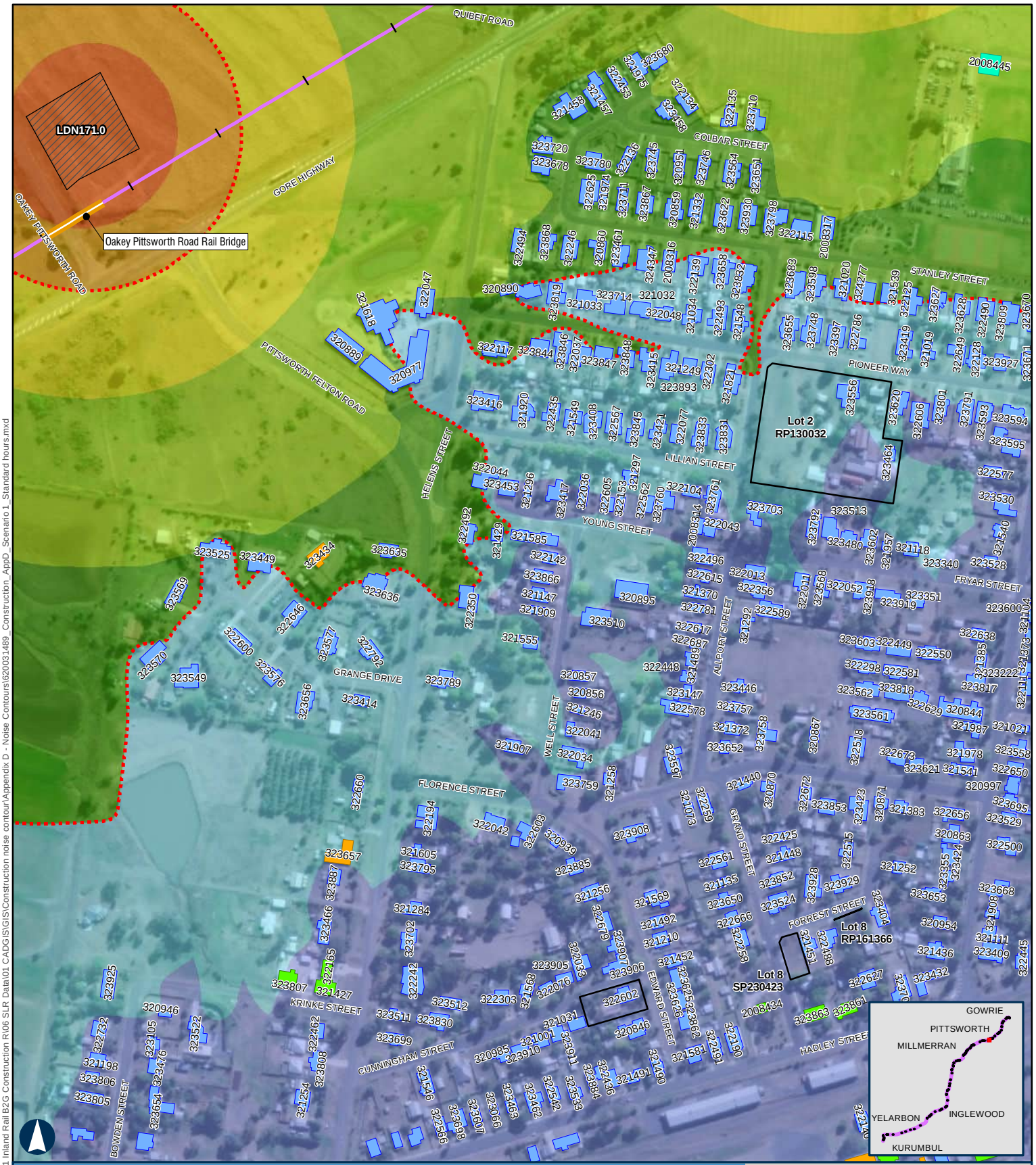

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APPENDIX D - MAP 38 OF 48

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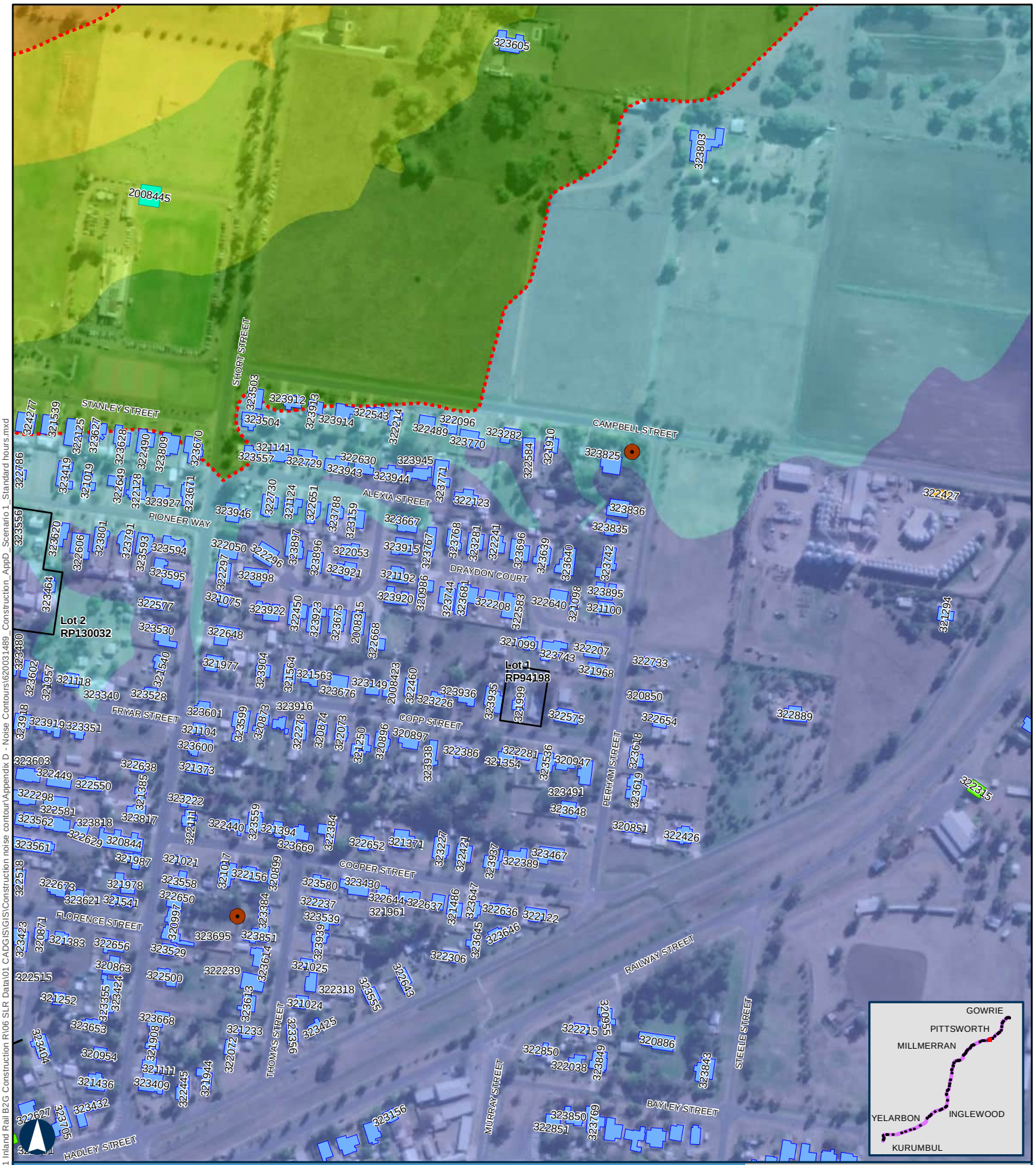

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Scenario 1 - Establishment of Laydown Areas Standard Hours

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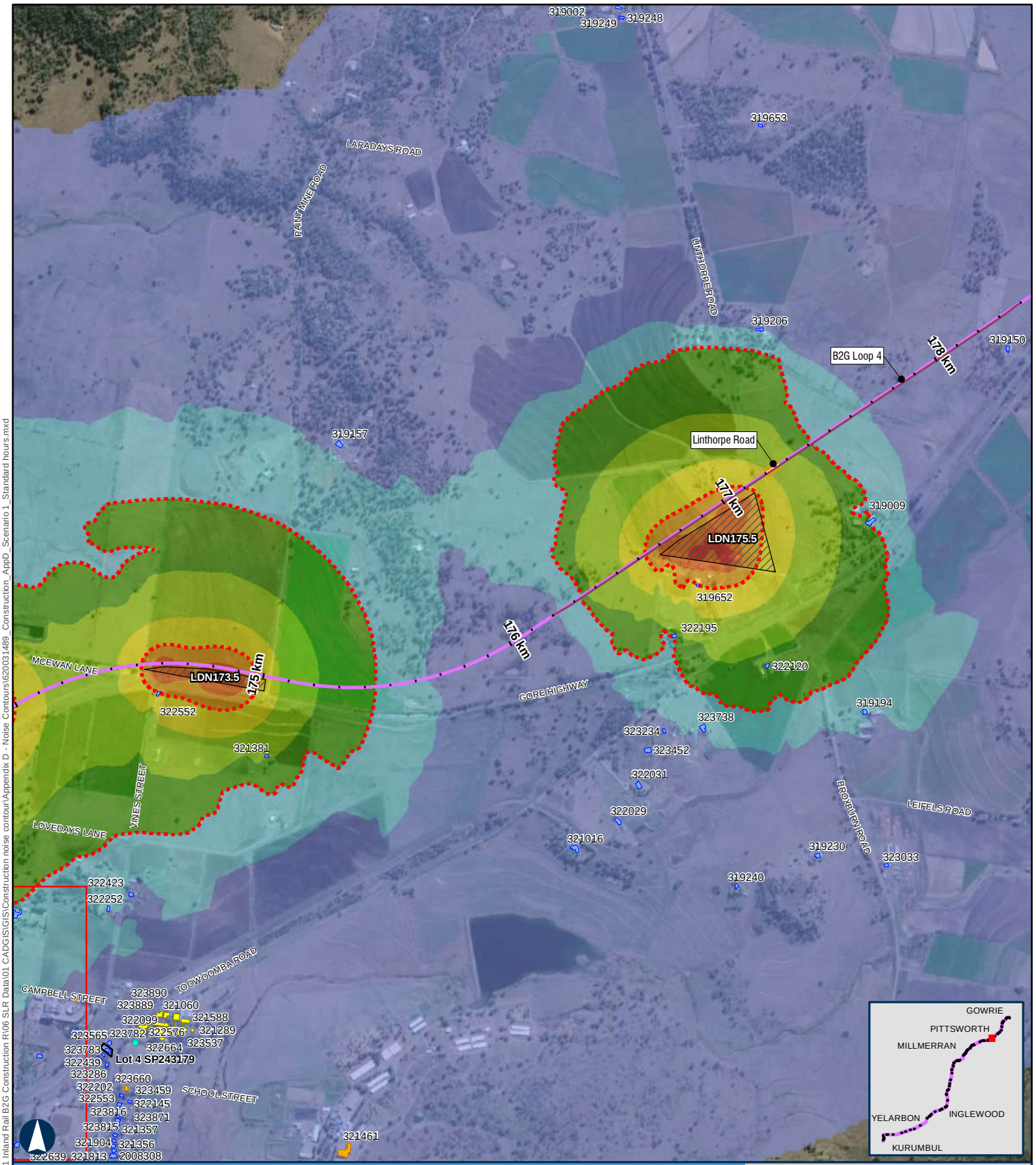

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Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 40 OF 48

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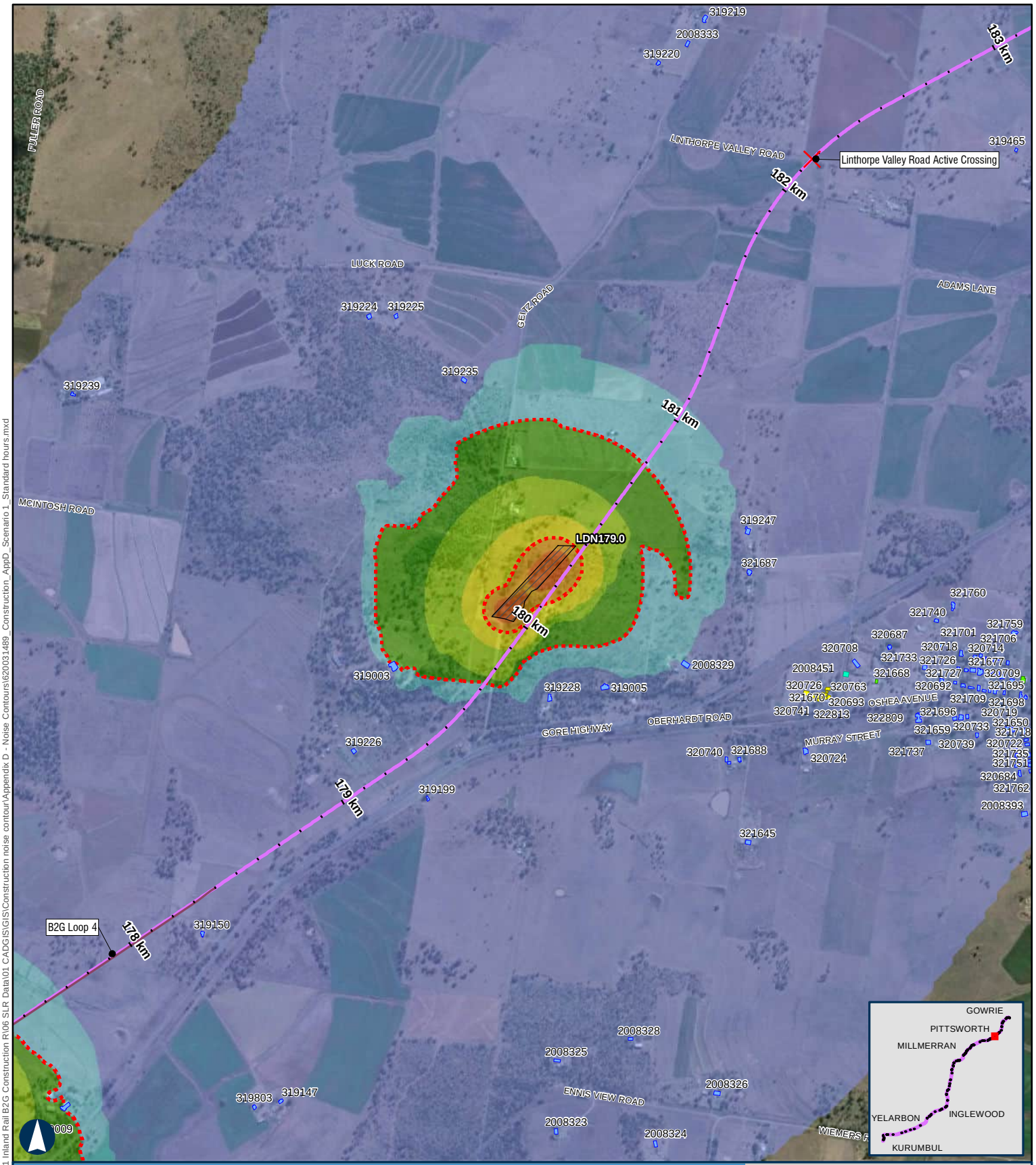

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 41 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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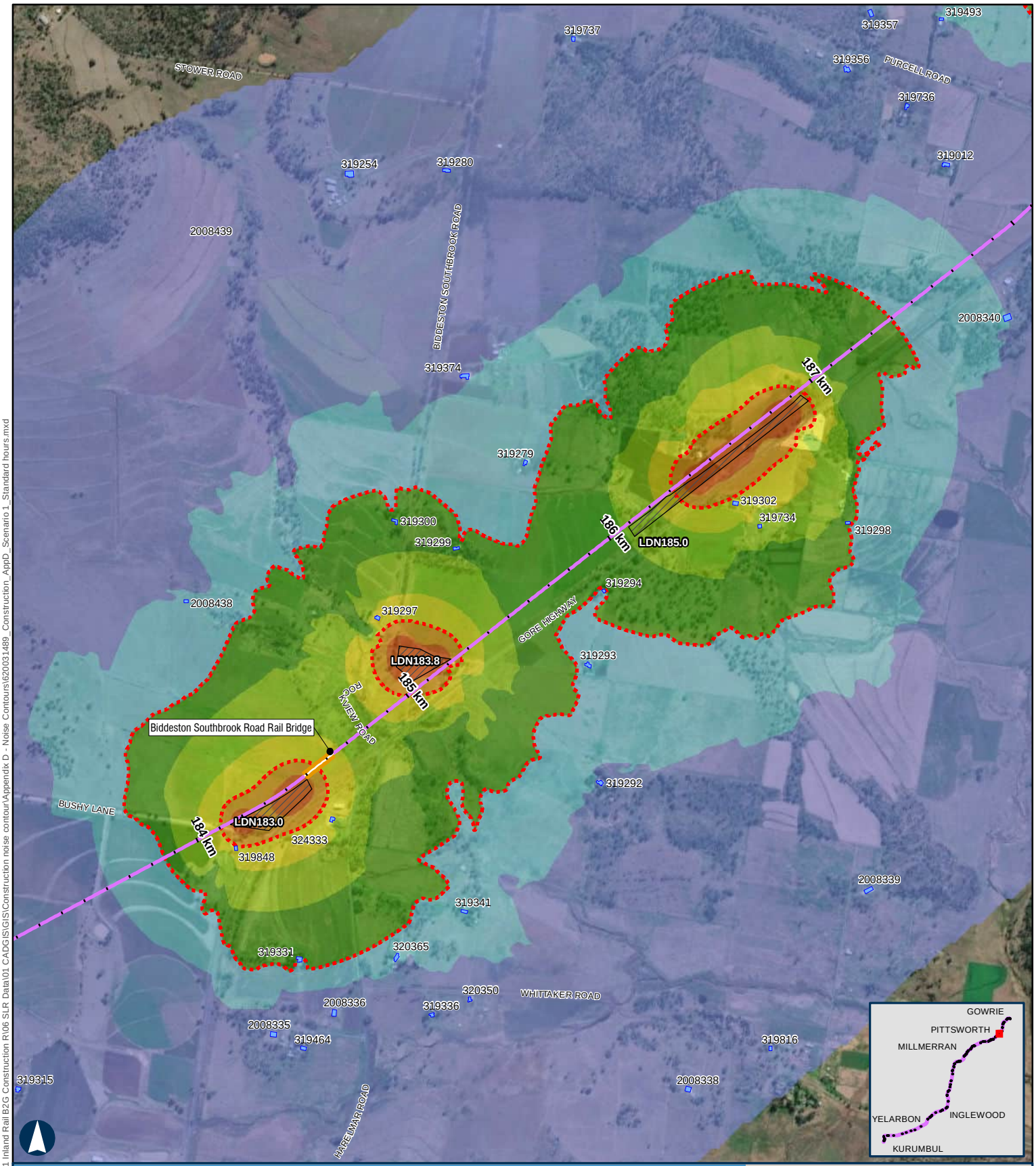

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 42 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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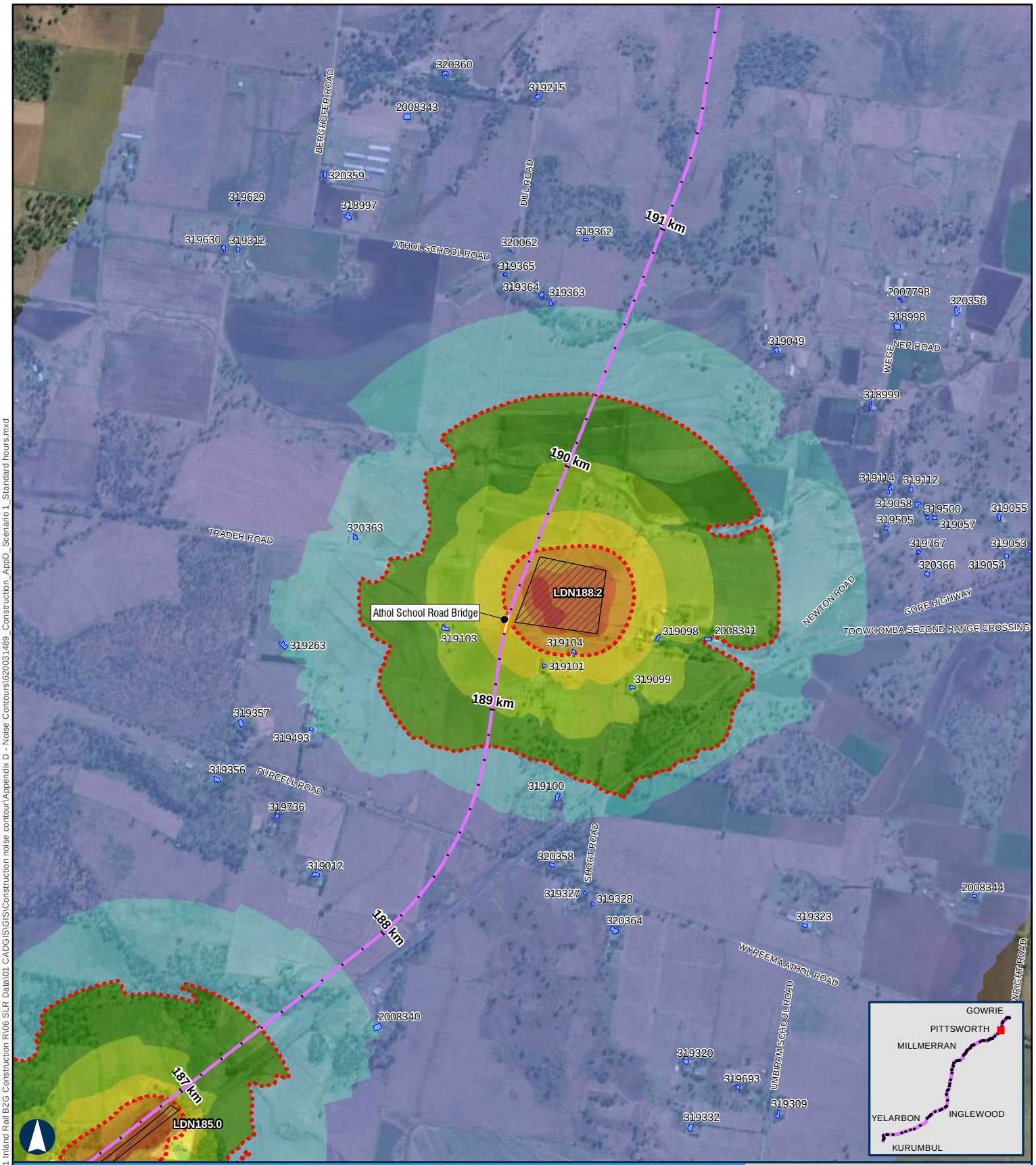

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 43 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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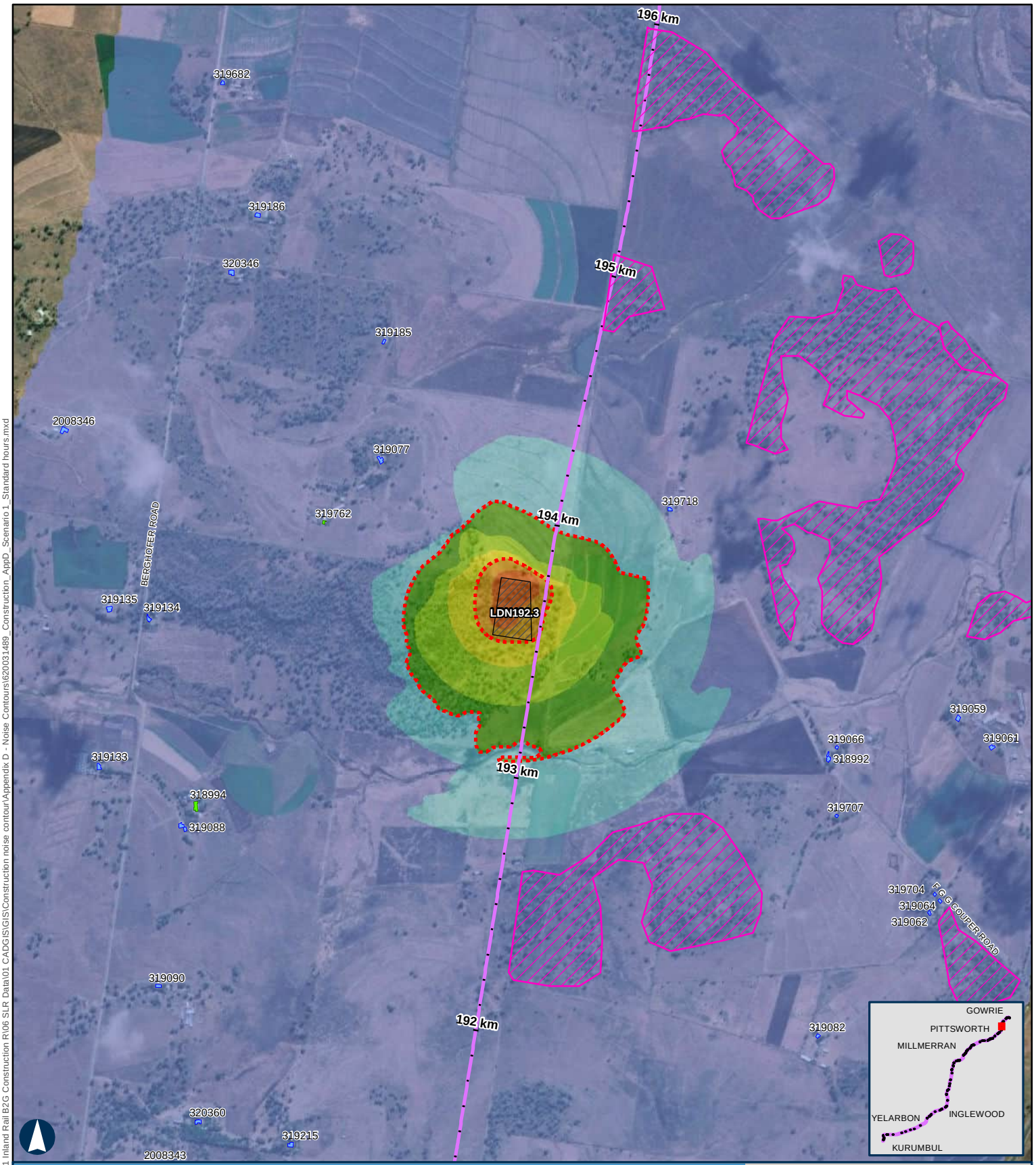

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 44 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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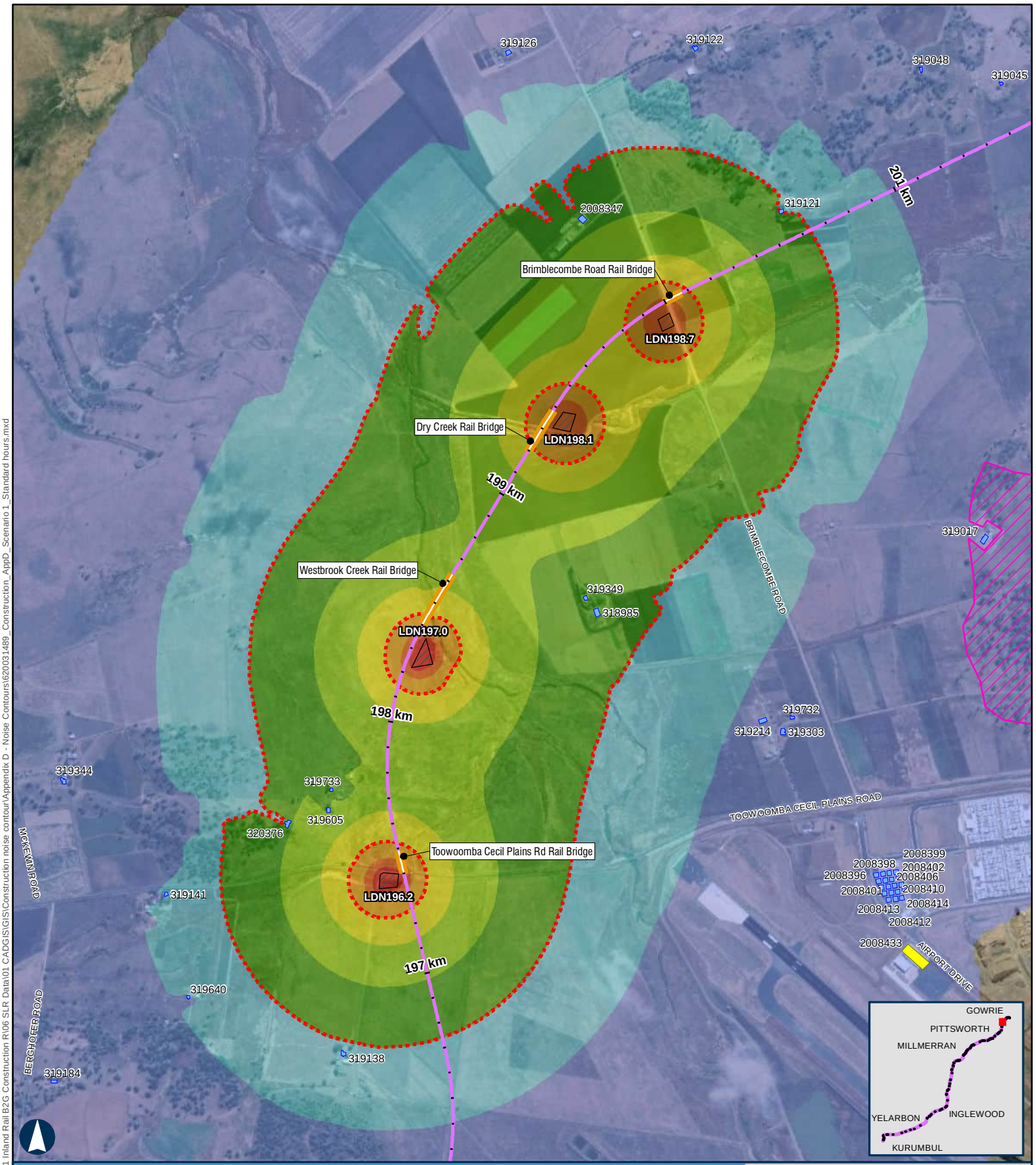

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 45 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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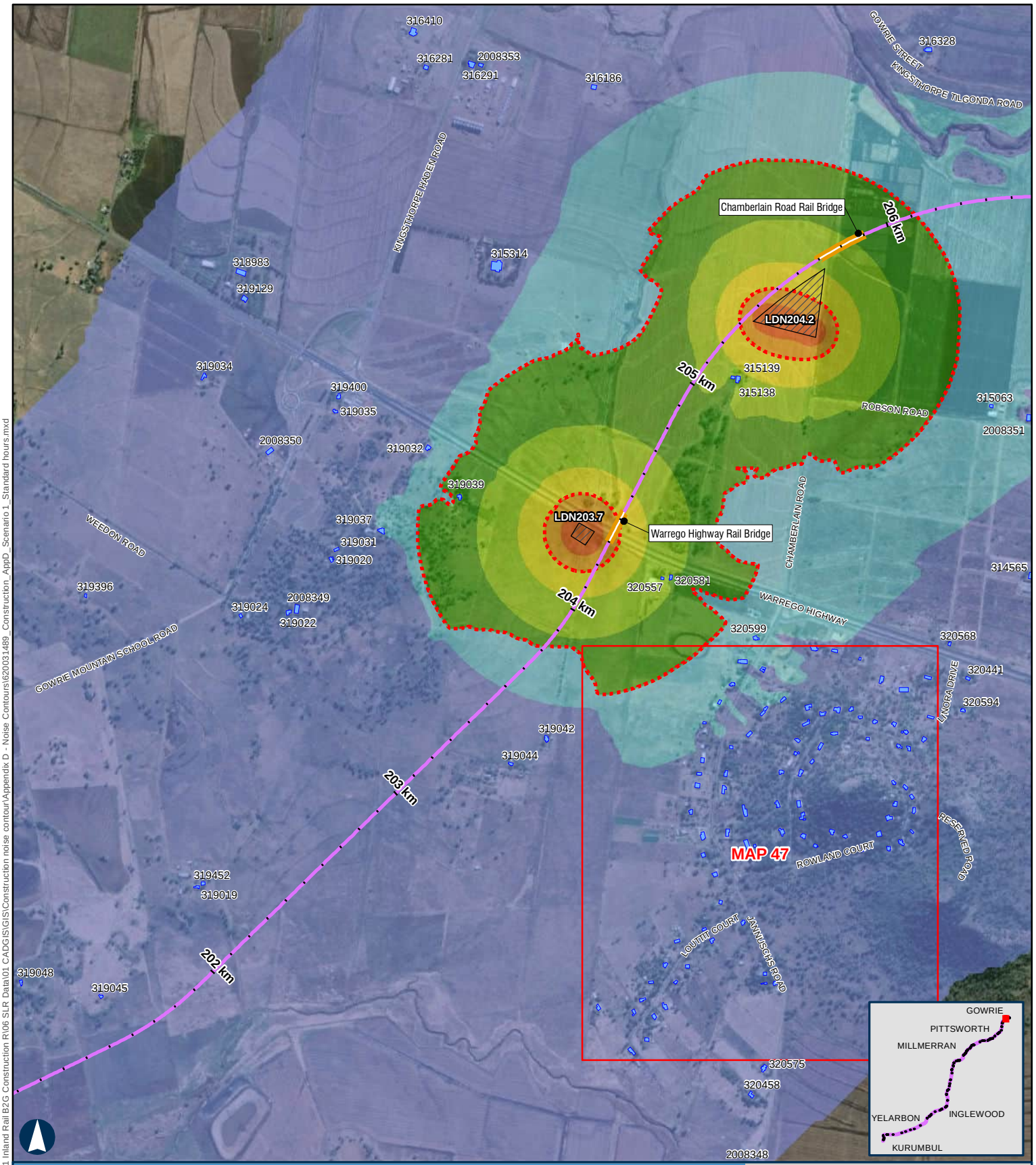

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 46 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 47 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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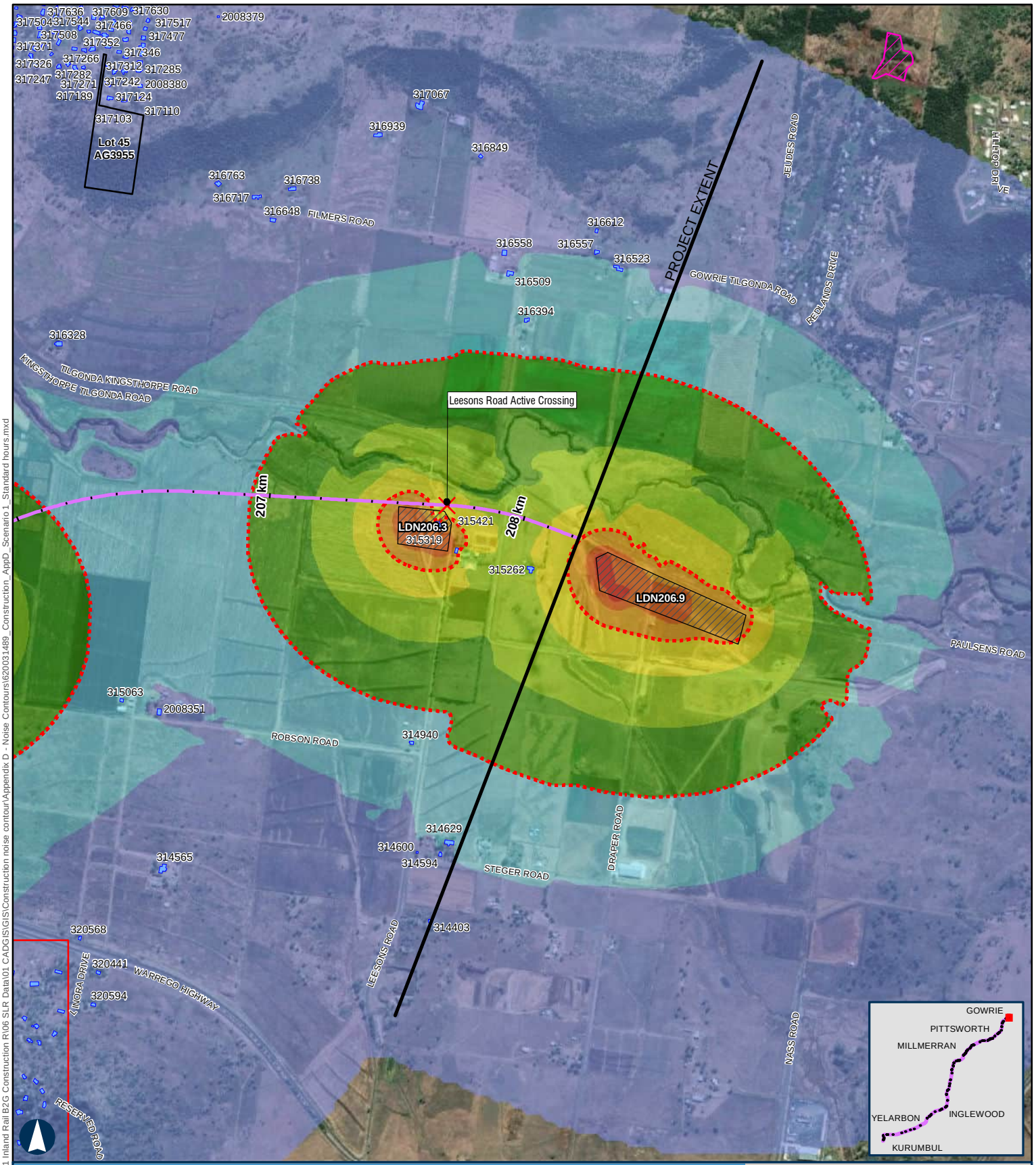

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Standard Hours

APPENDIX D - MAP 48 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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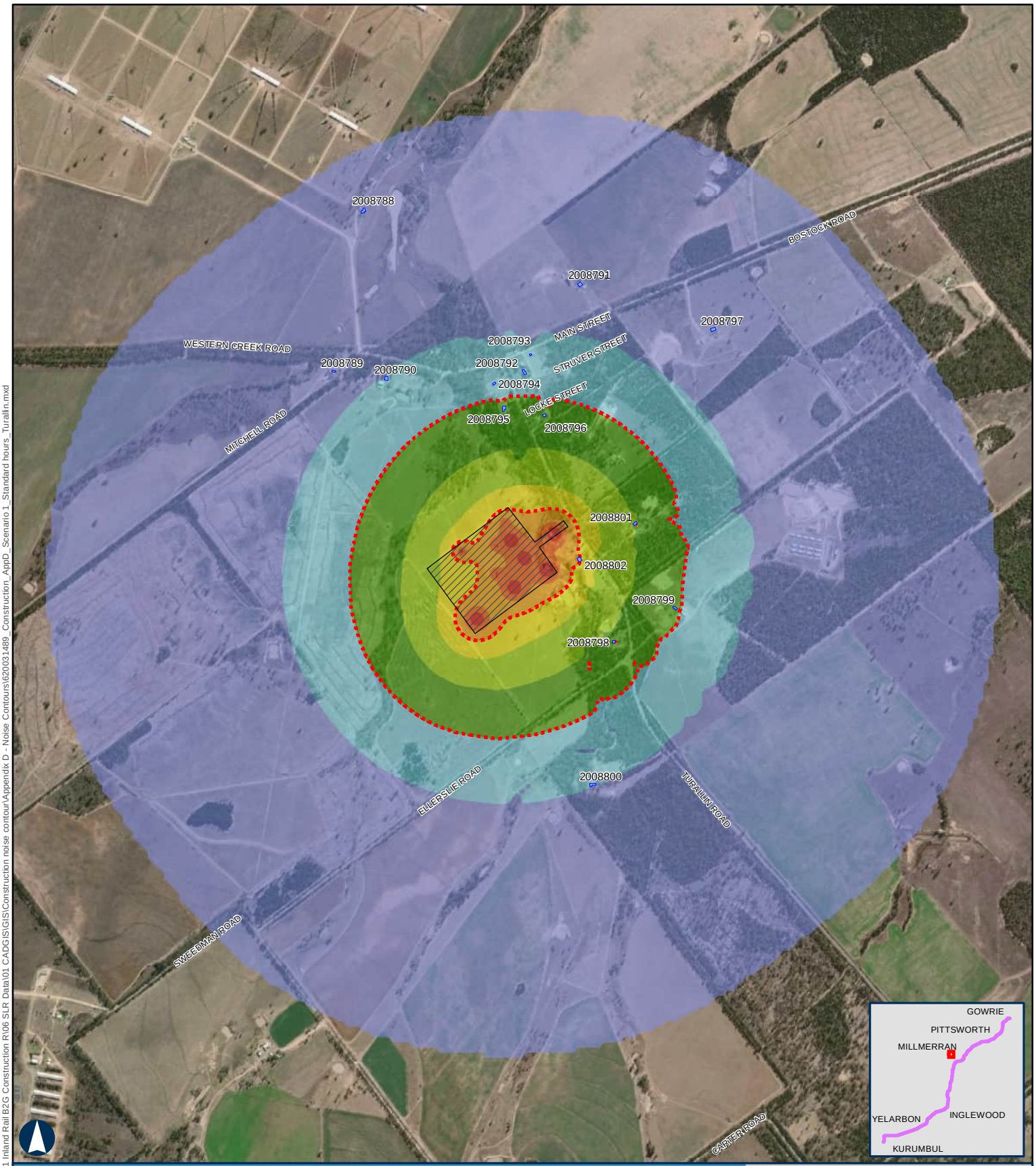

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas
Turallin Standard Hours

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:25,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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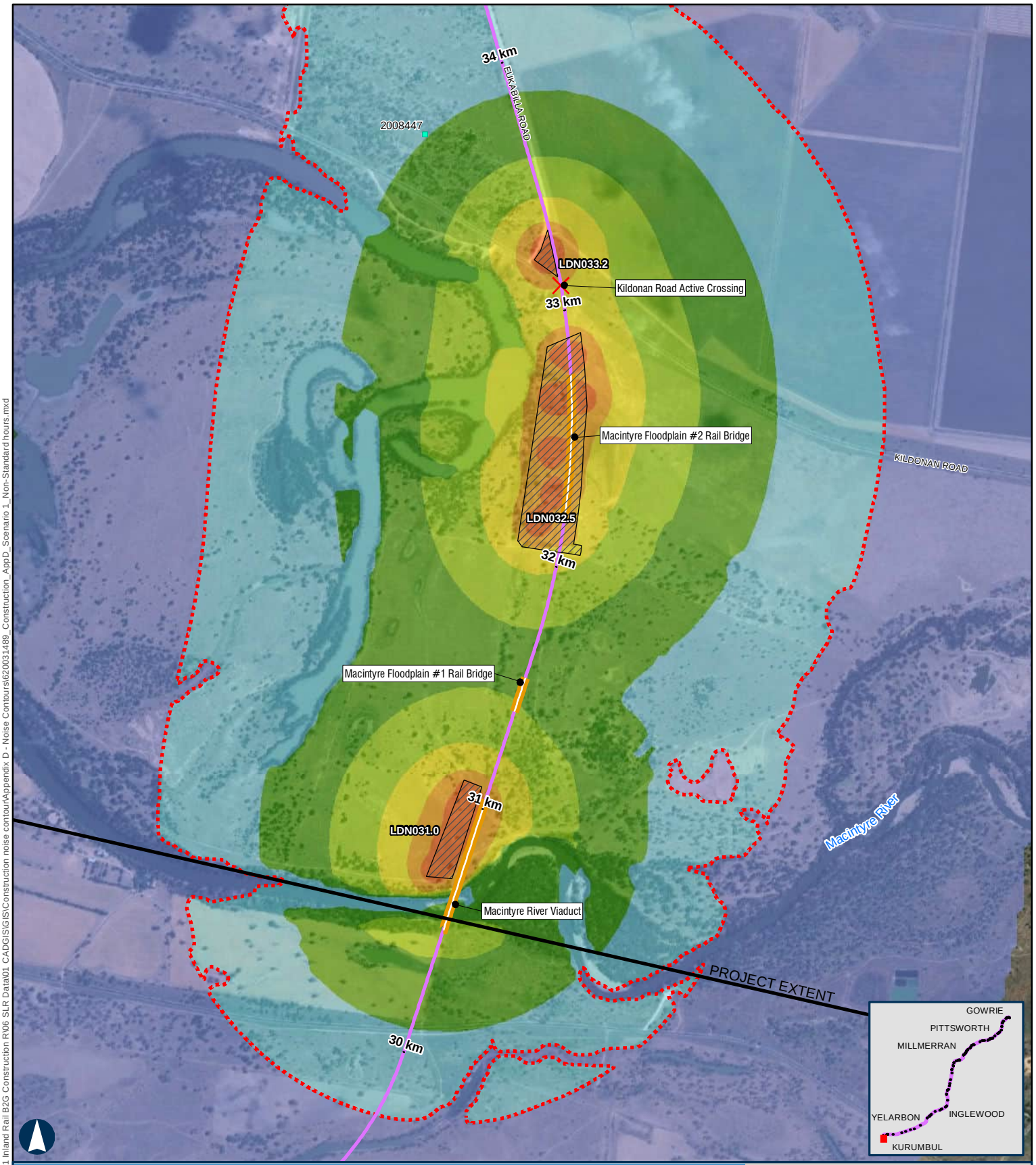

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 1 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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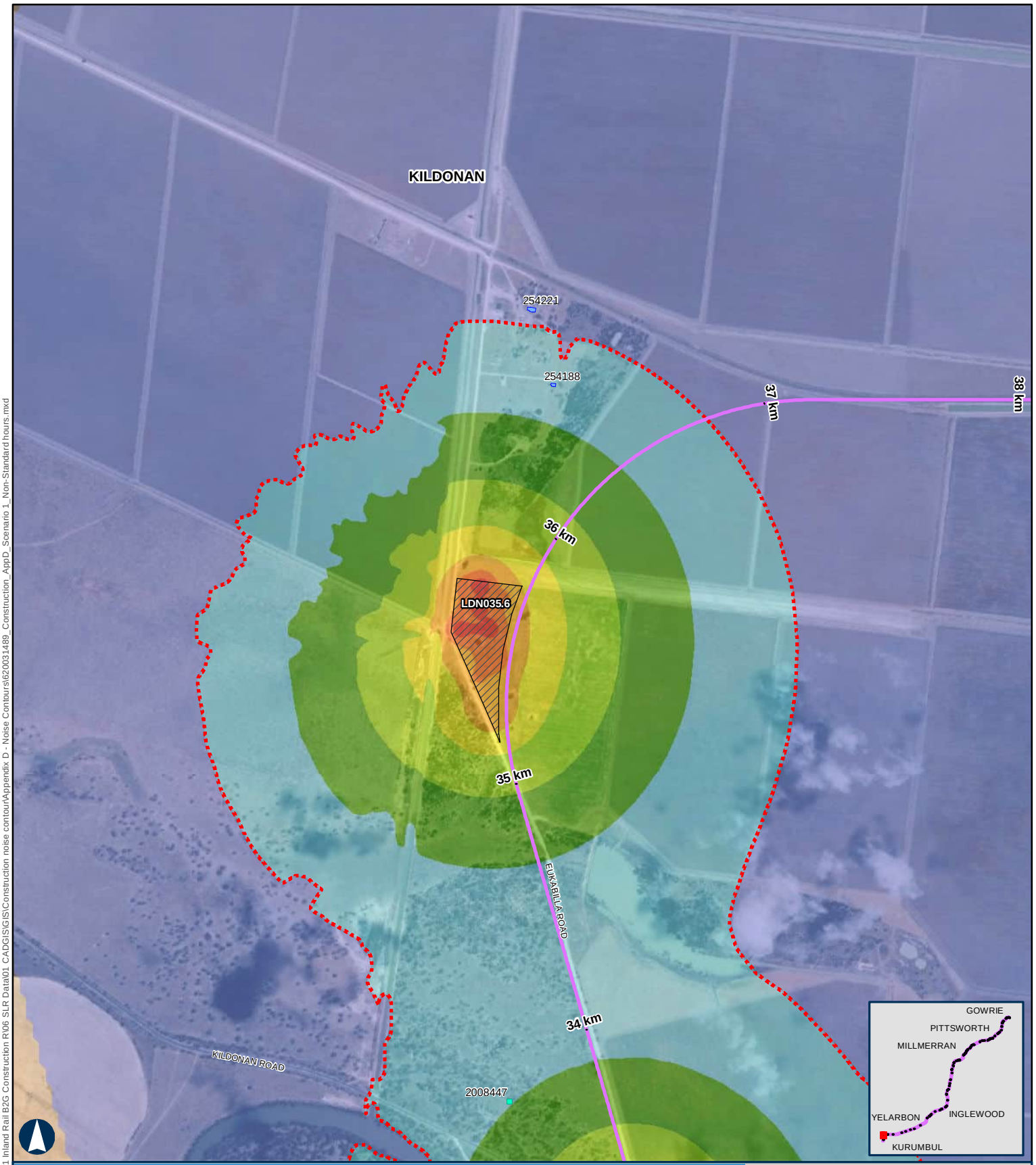

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 2 OF 48

100 m

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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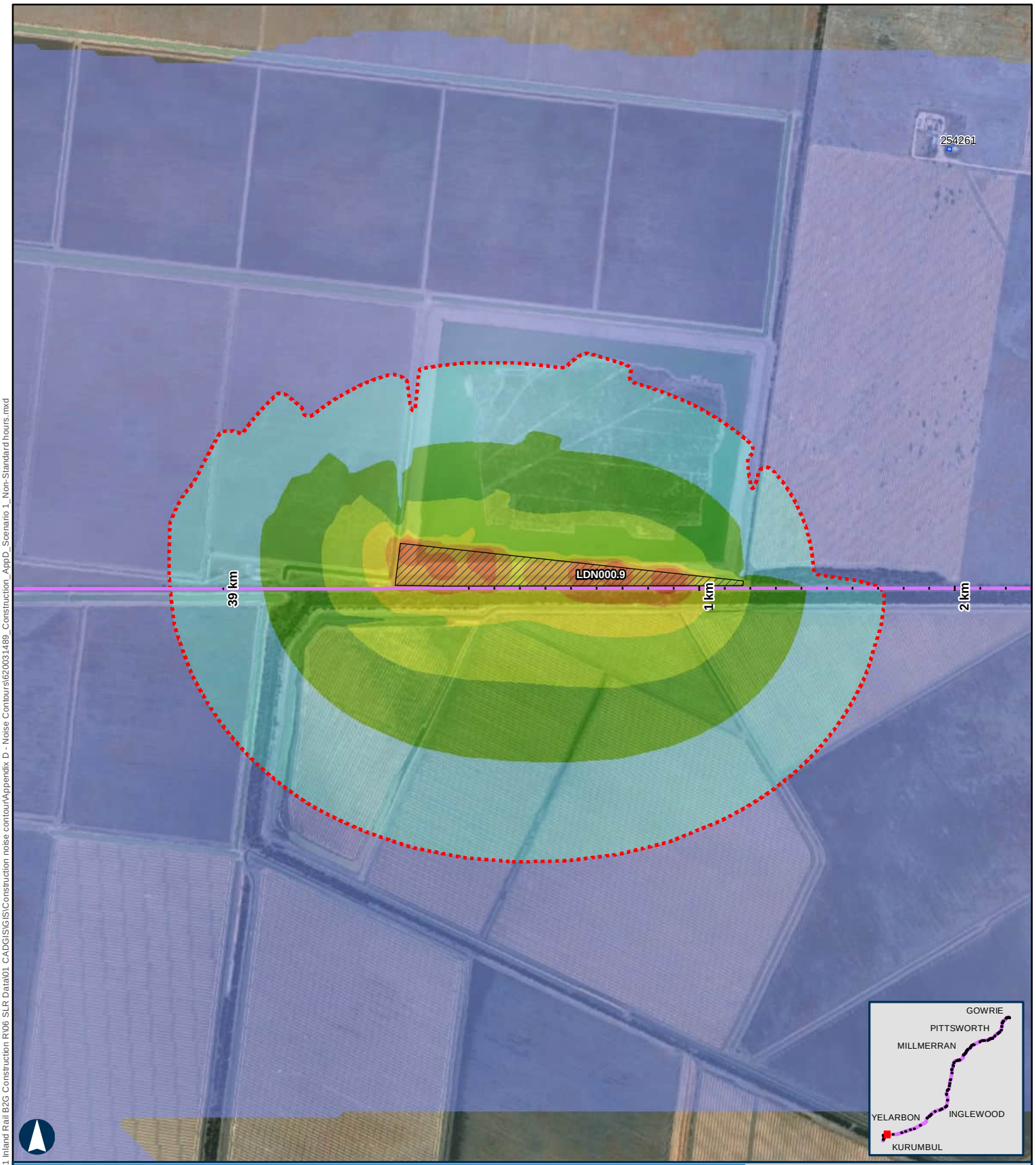

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 3 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
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- 70-75 dBA
- >75 dBA

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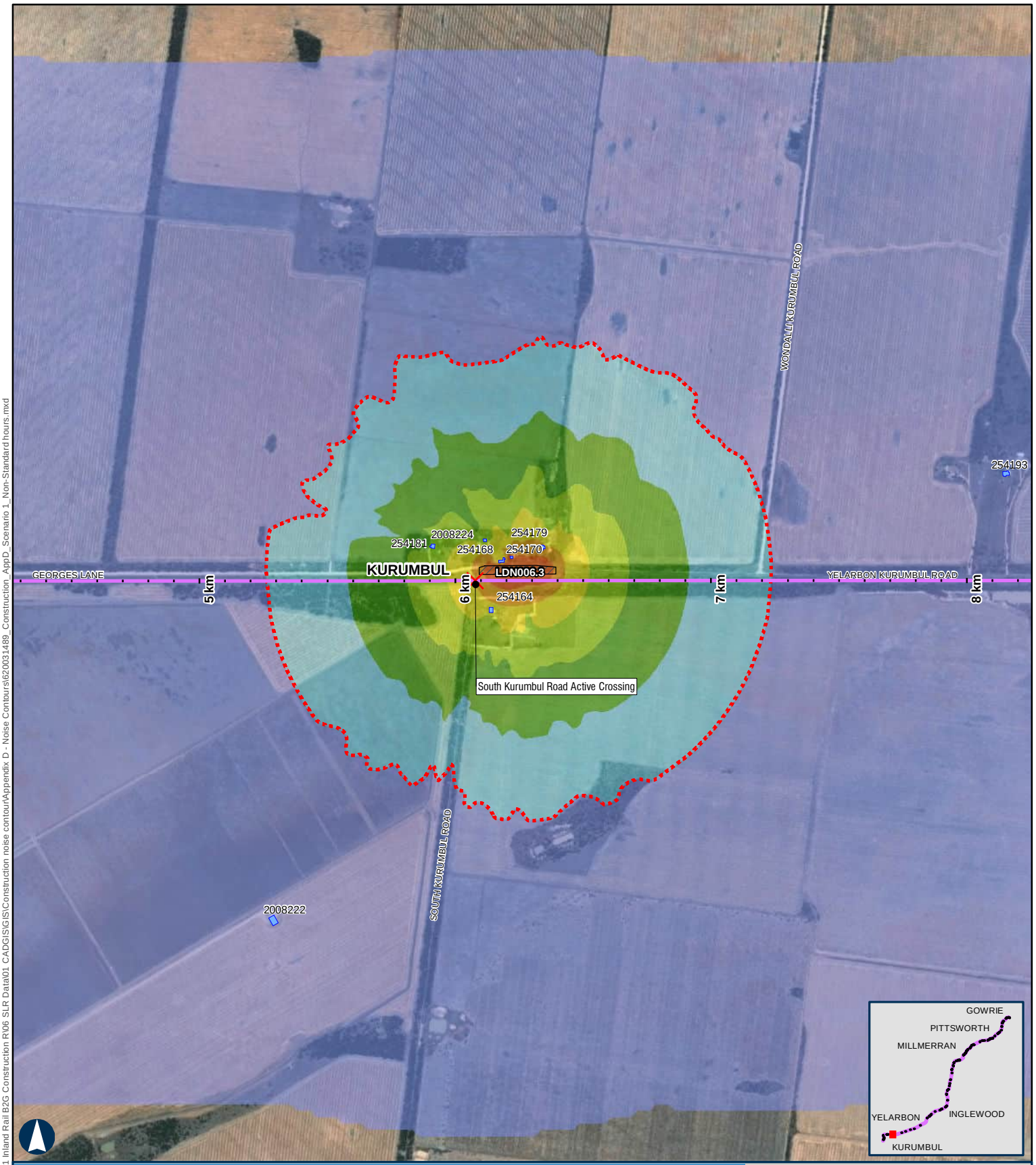

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 4 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
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- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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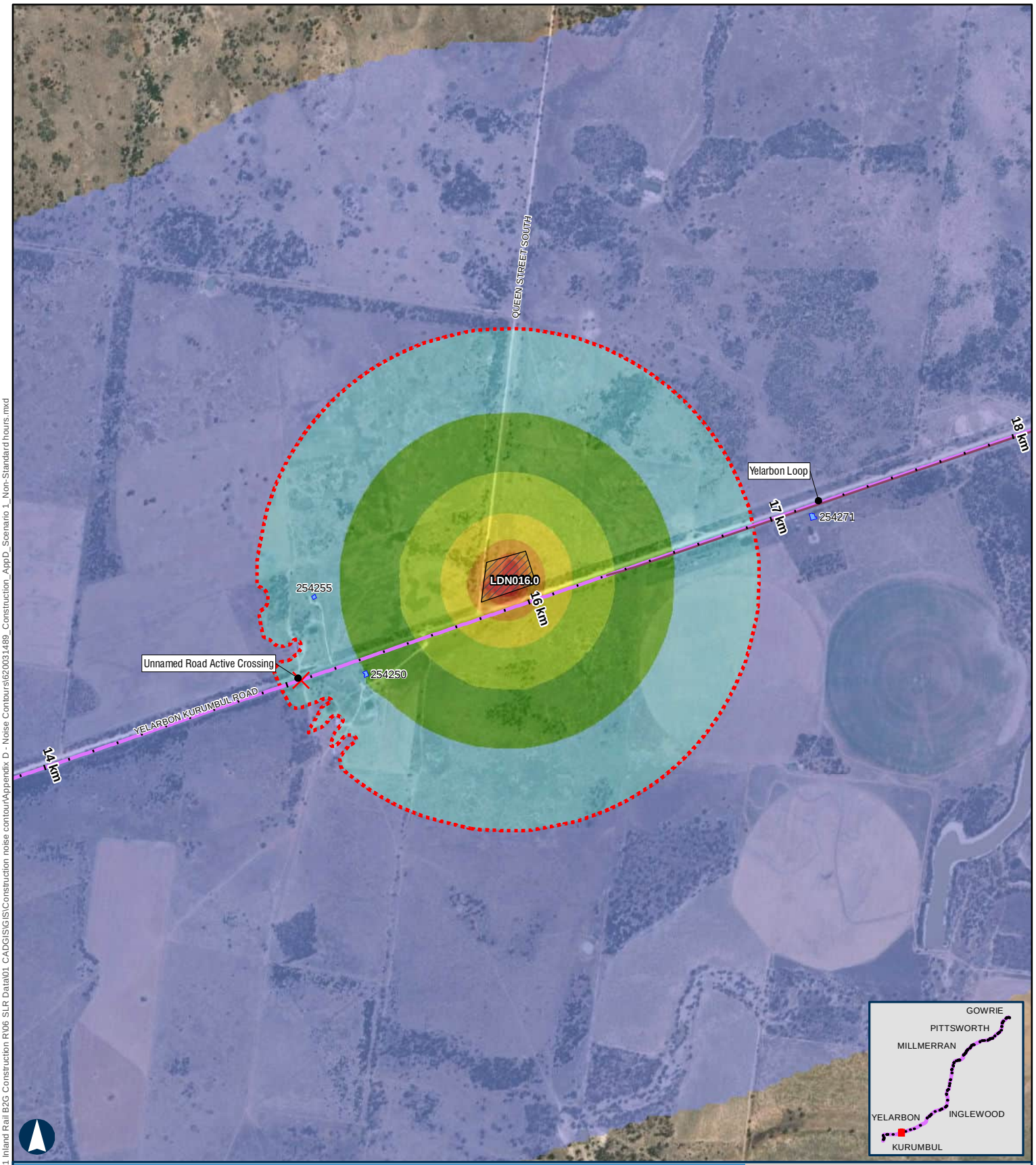

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 5 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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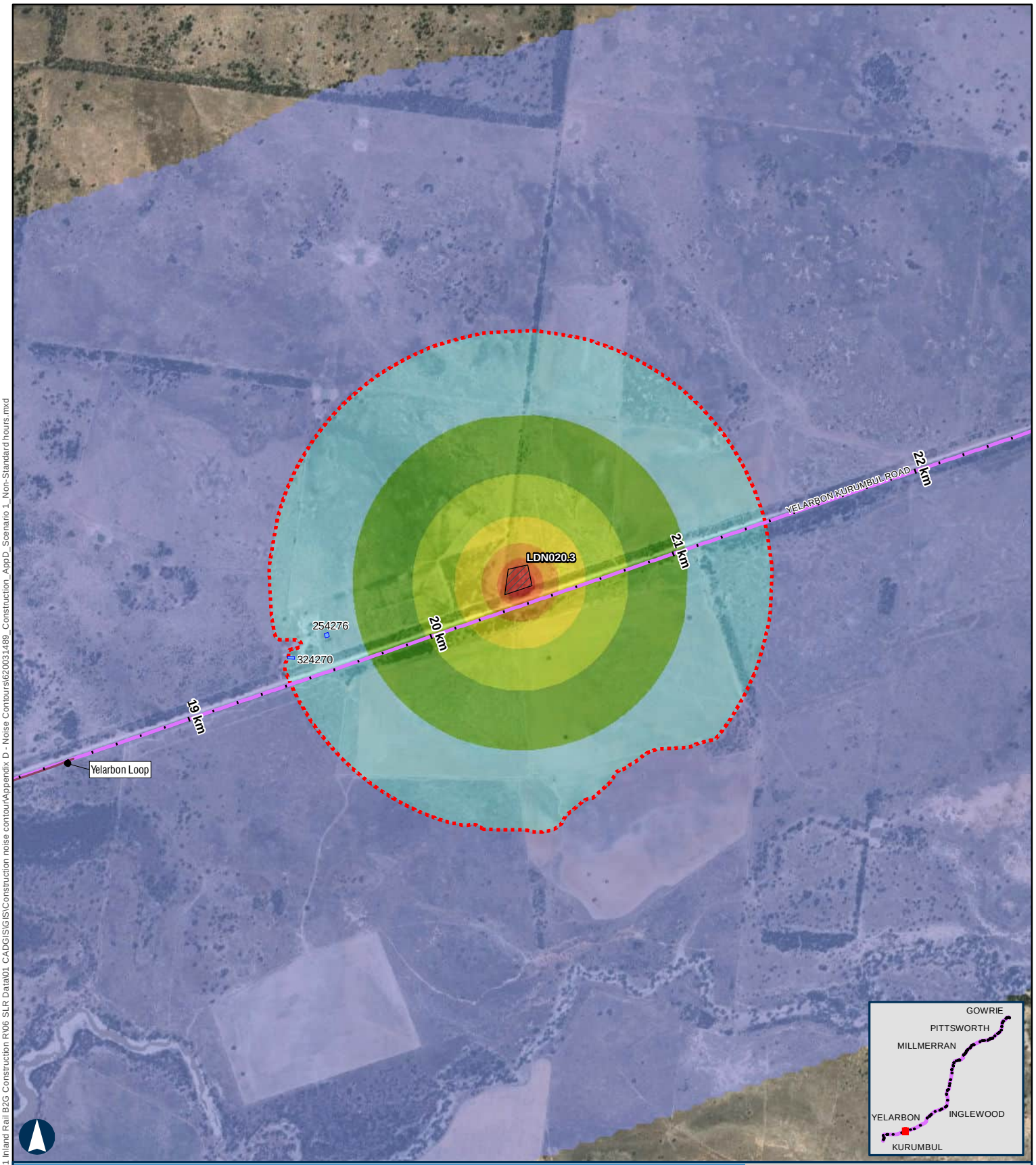

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 6 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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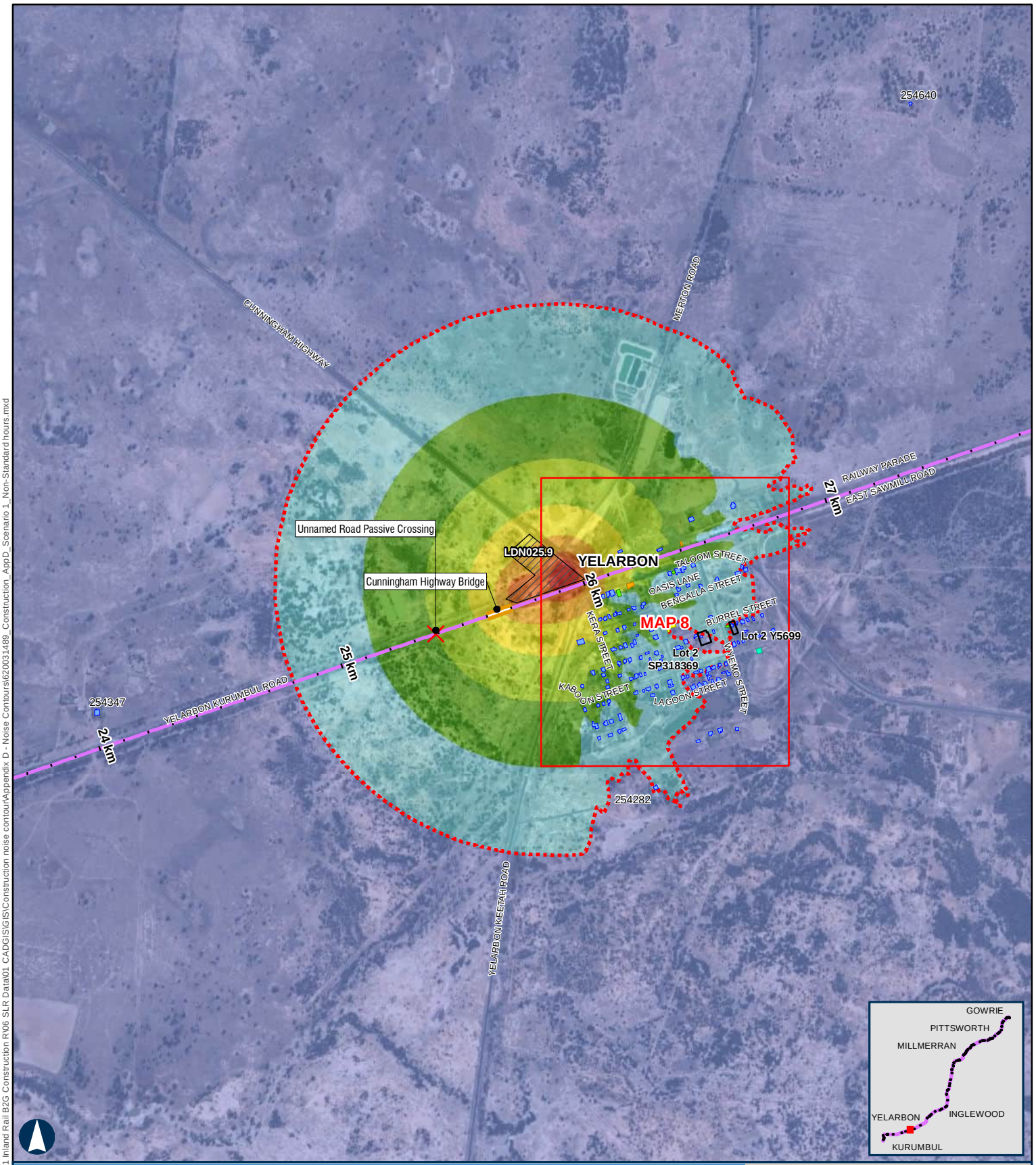

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 7 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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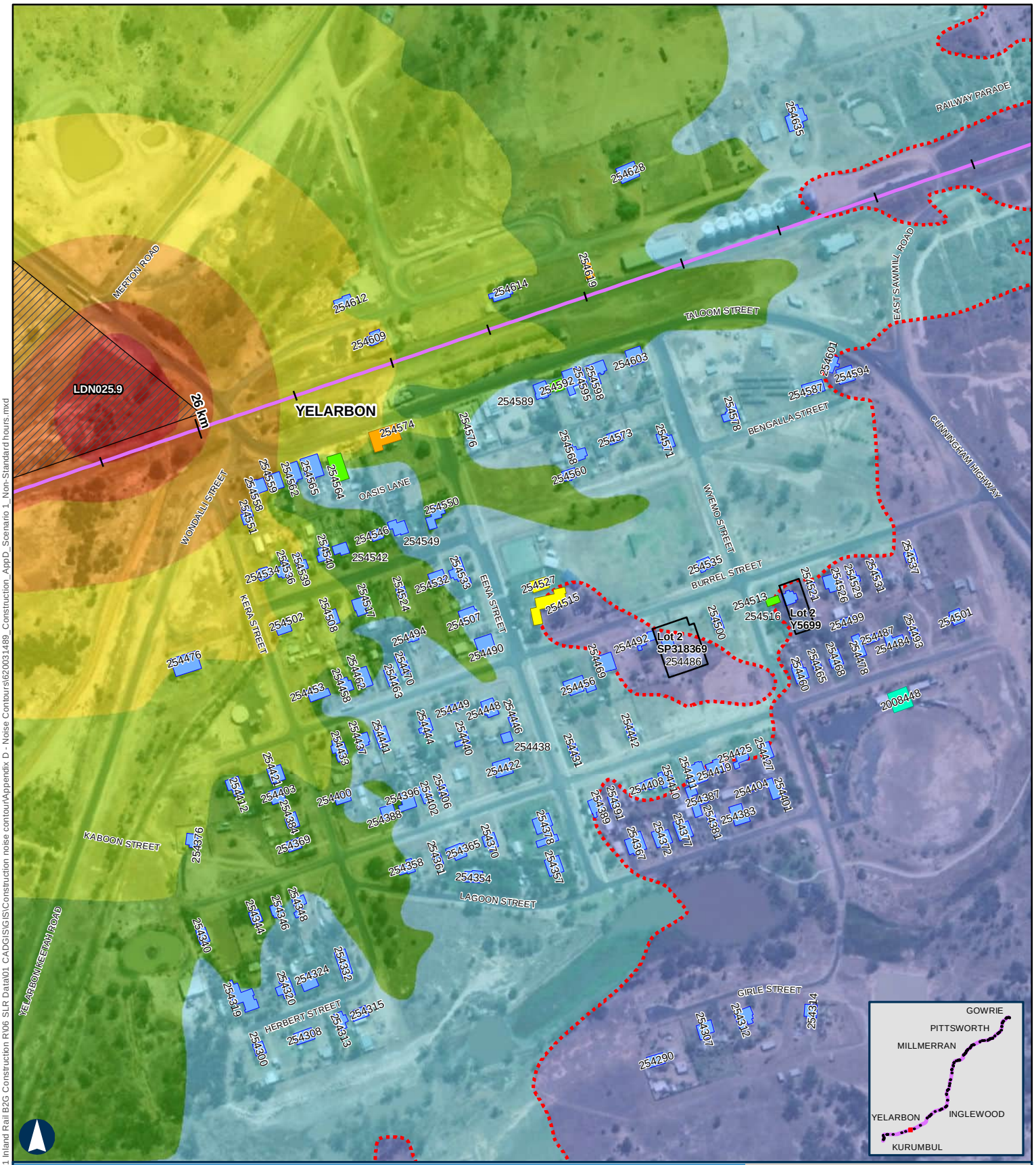

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 8 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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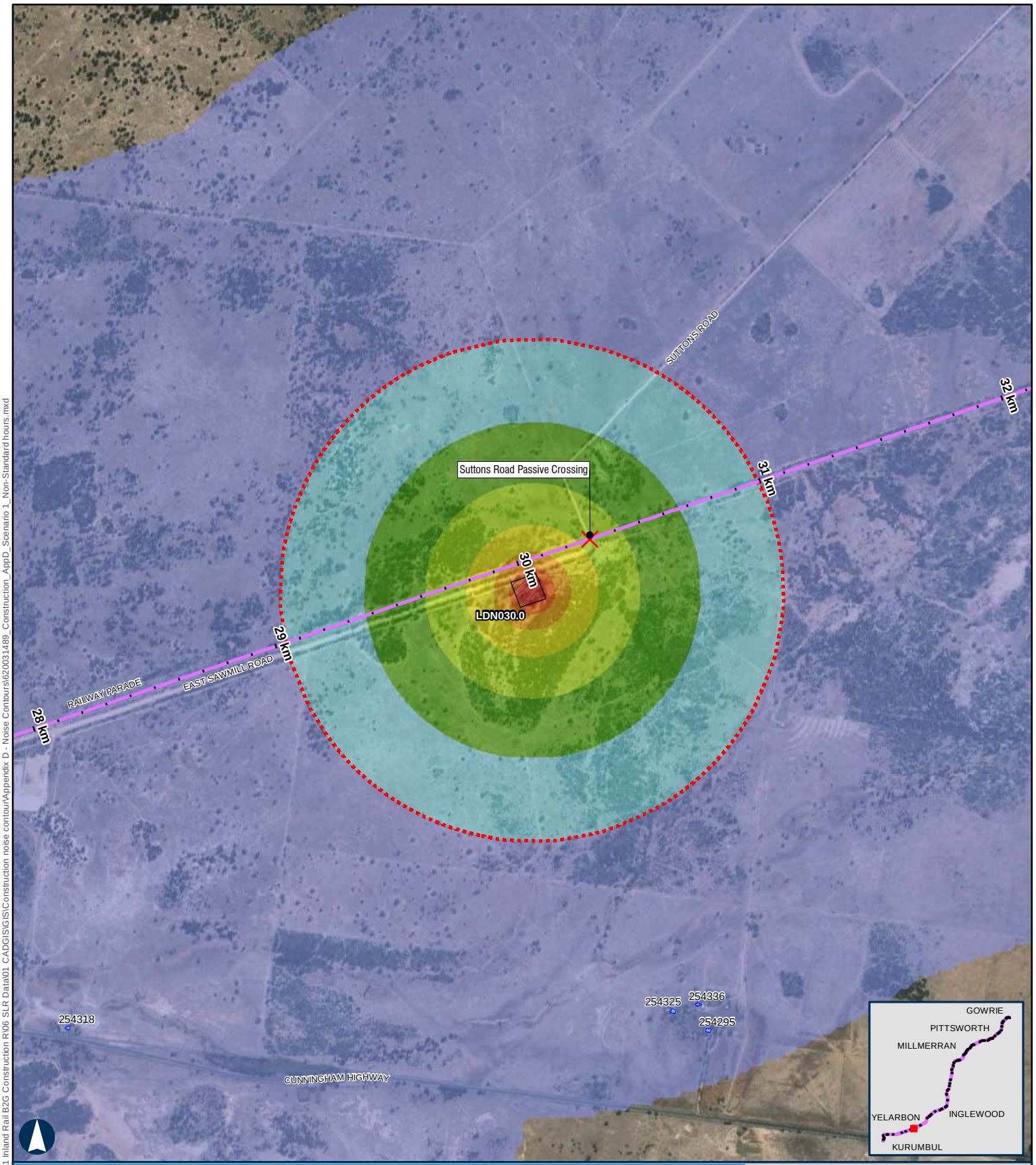

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 9 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
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- Criteria (45 dBA)
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

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- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
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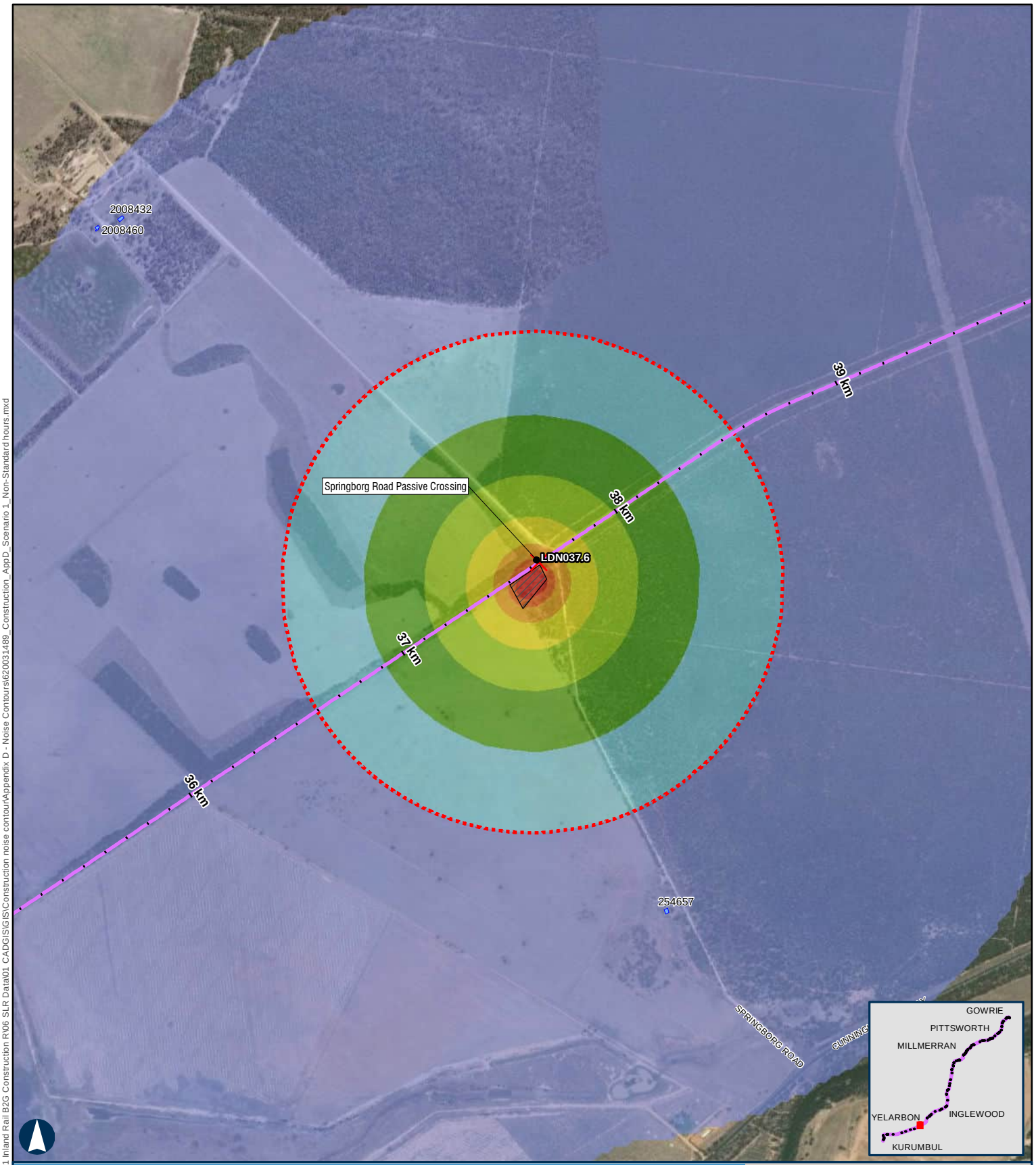

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 10 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
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- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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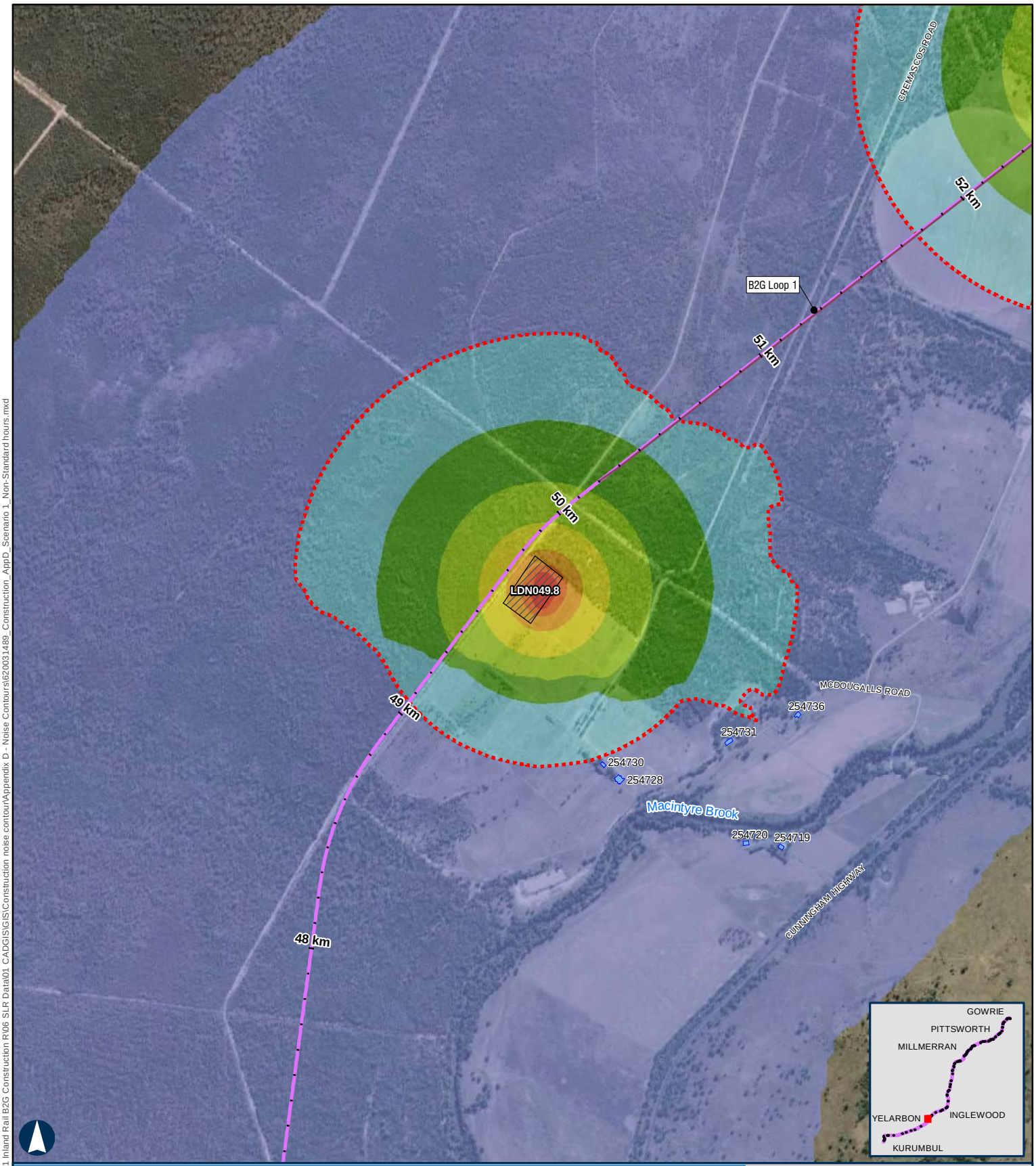

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 11 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
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- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
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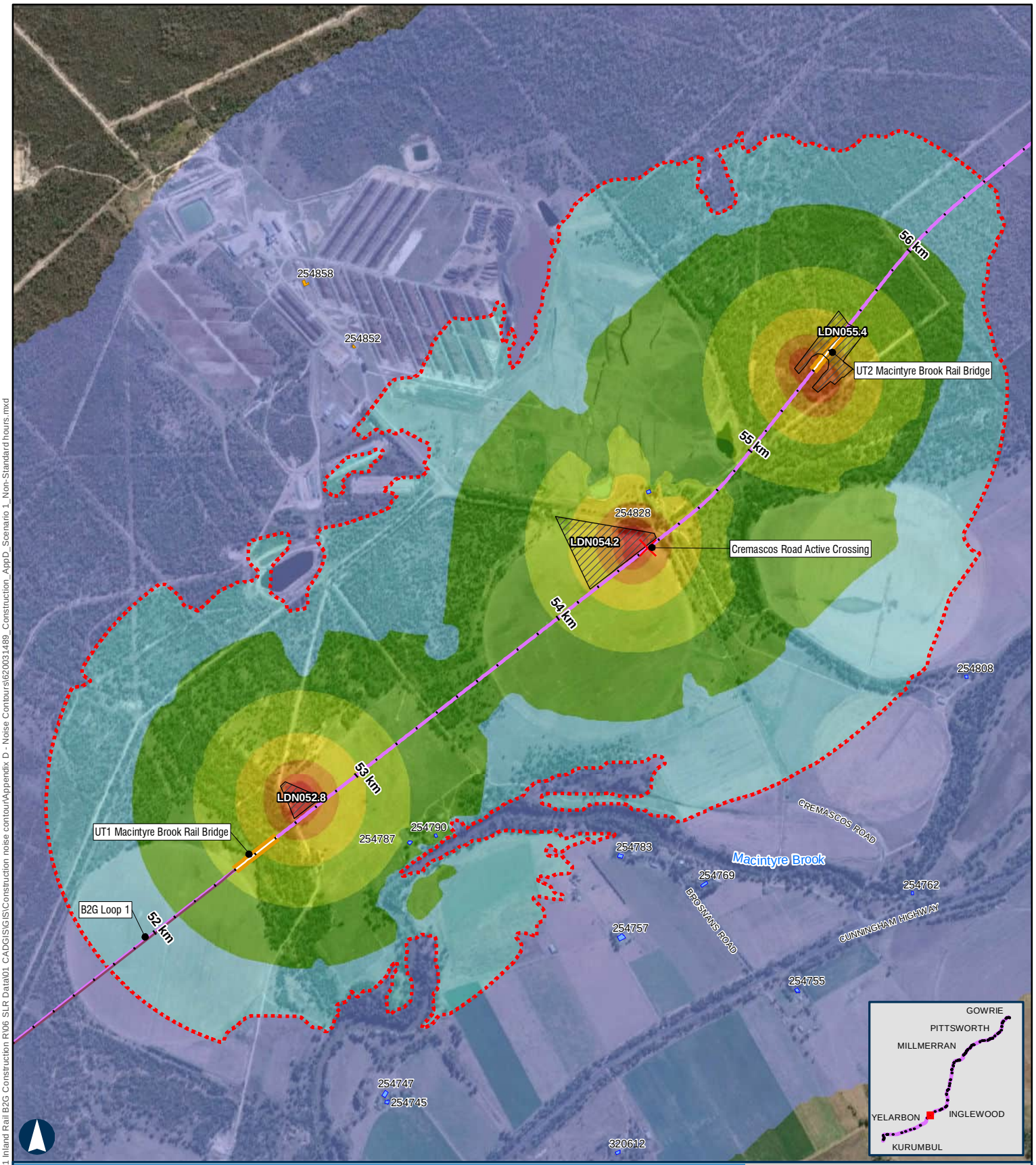

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 12 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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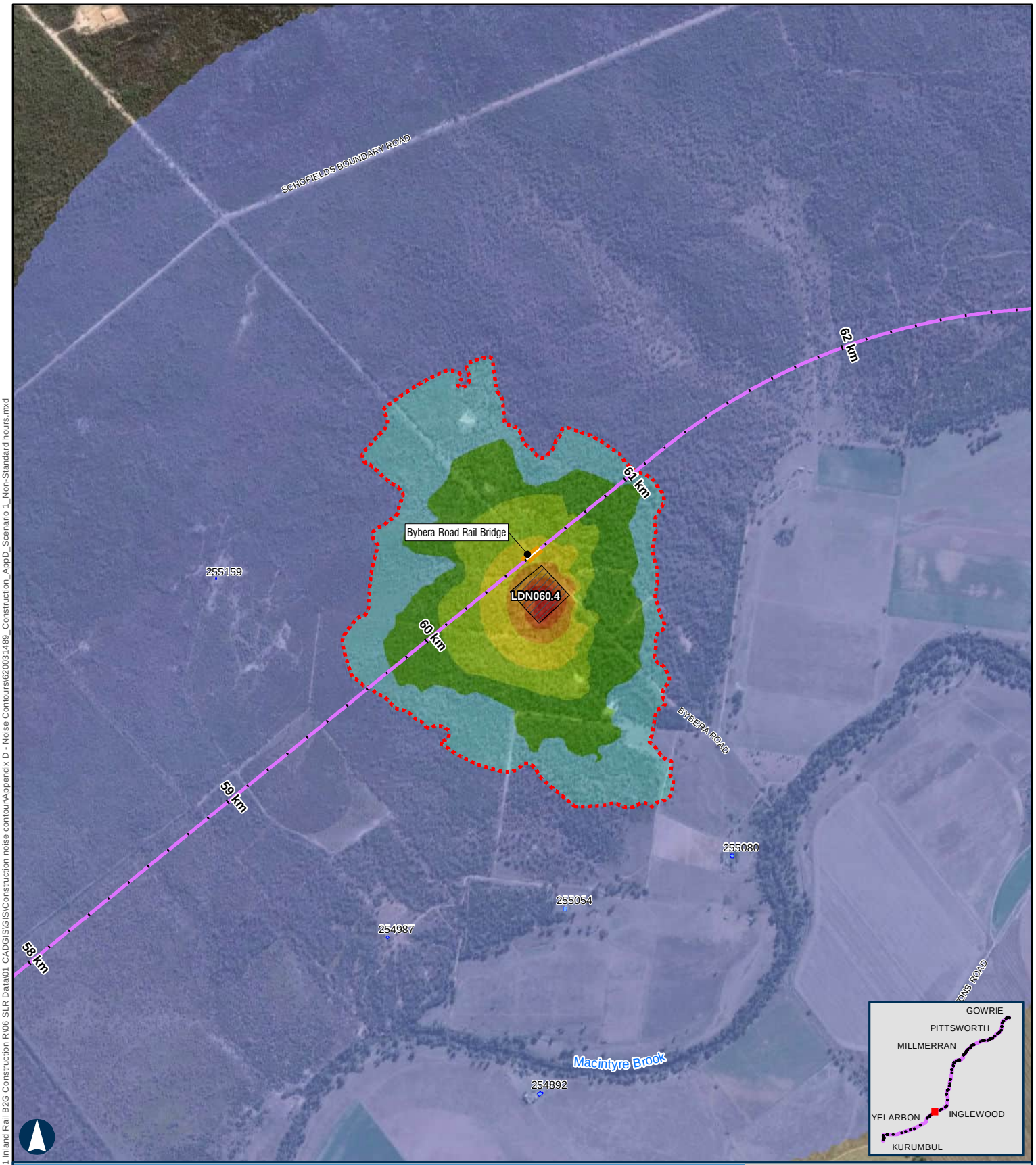

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 13 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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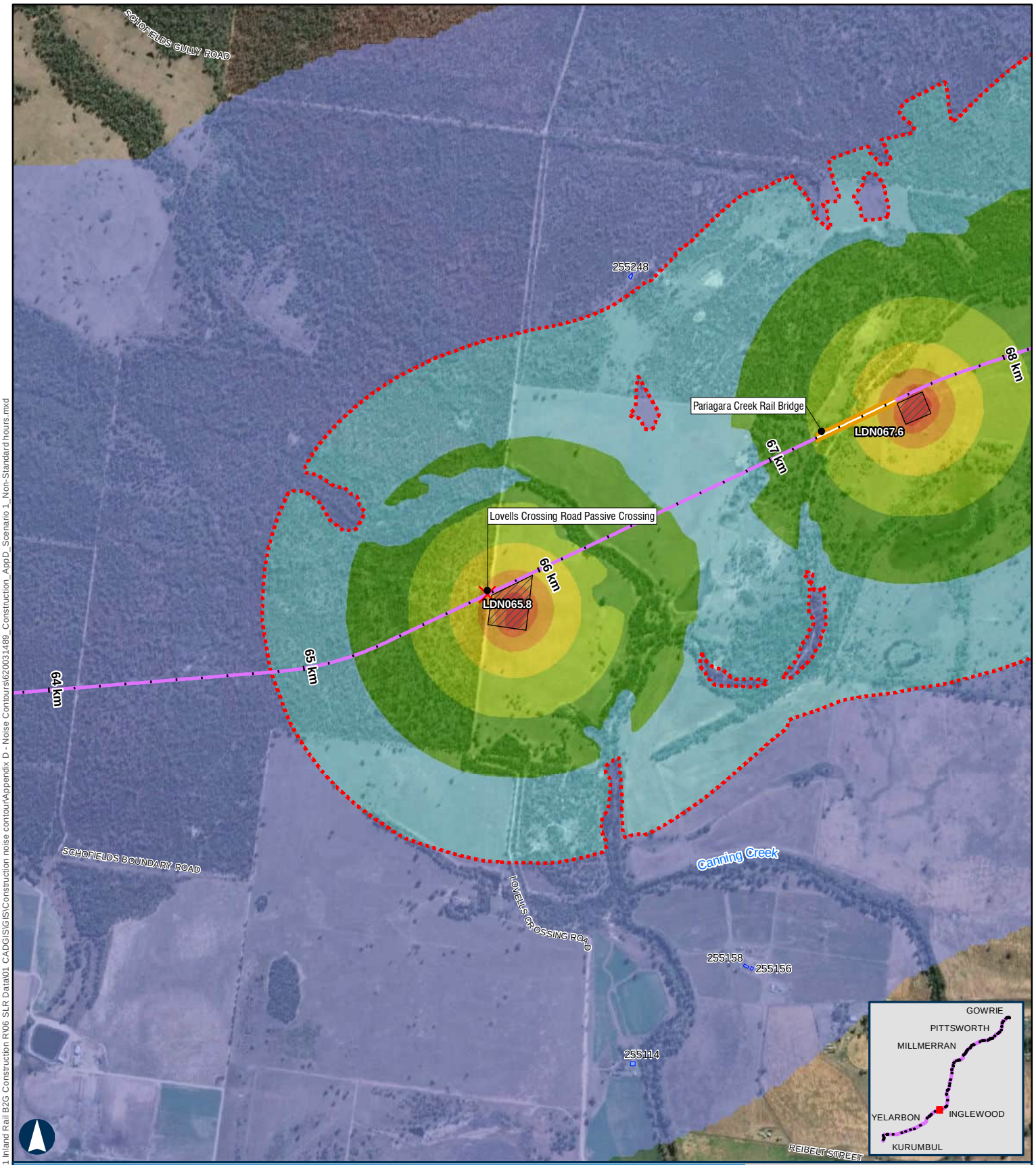

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 14 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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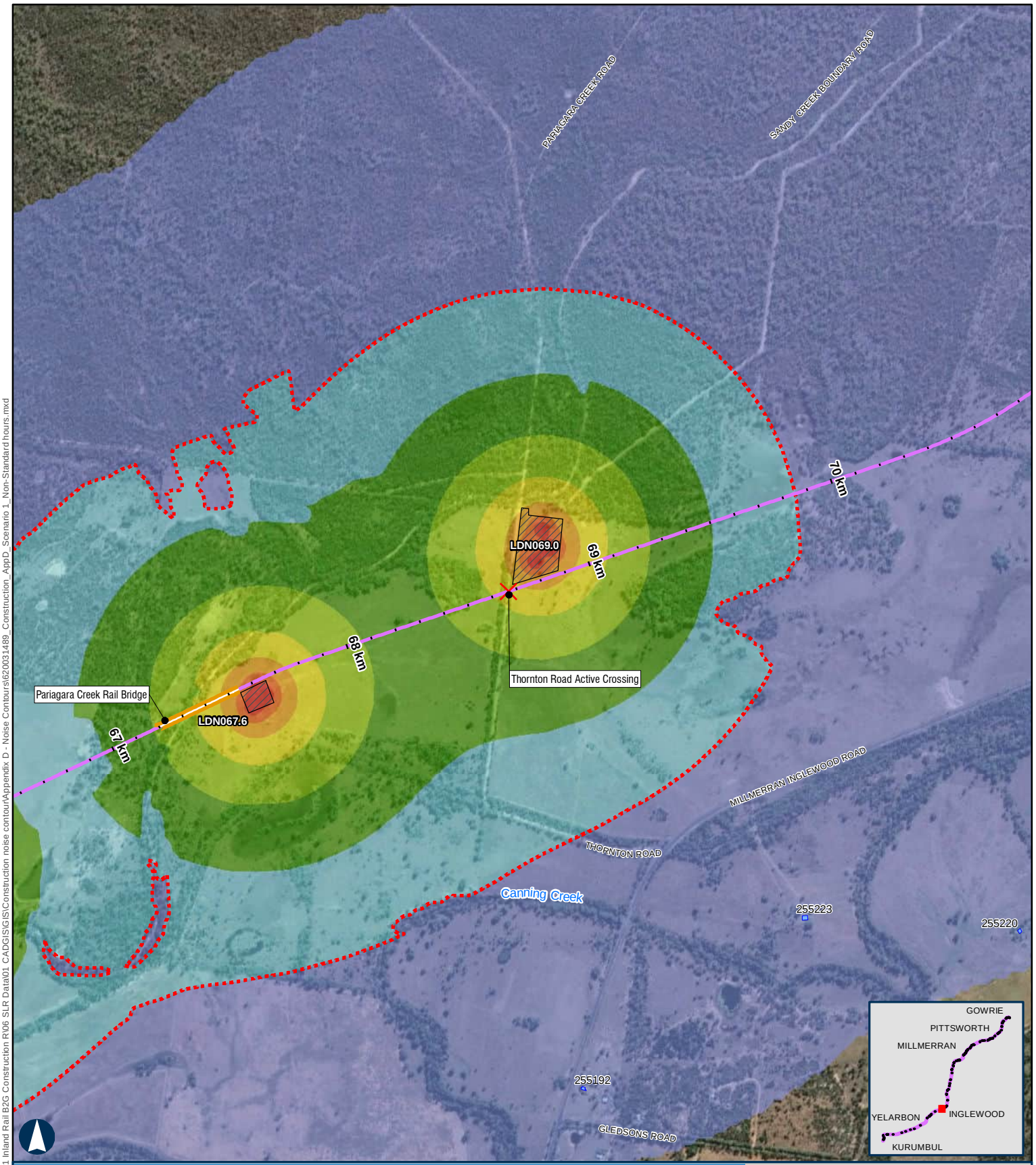

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 15 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
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- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
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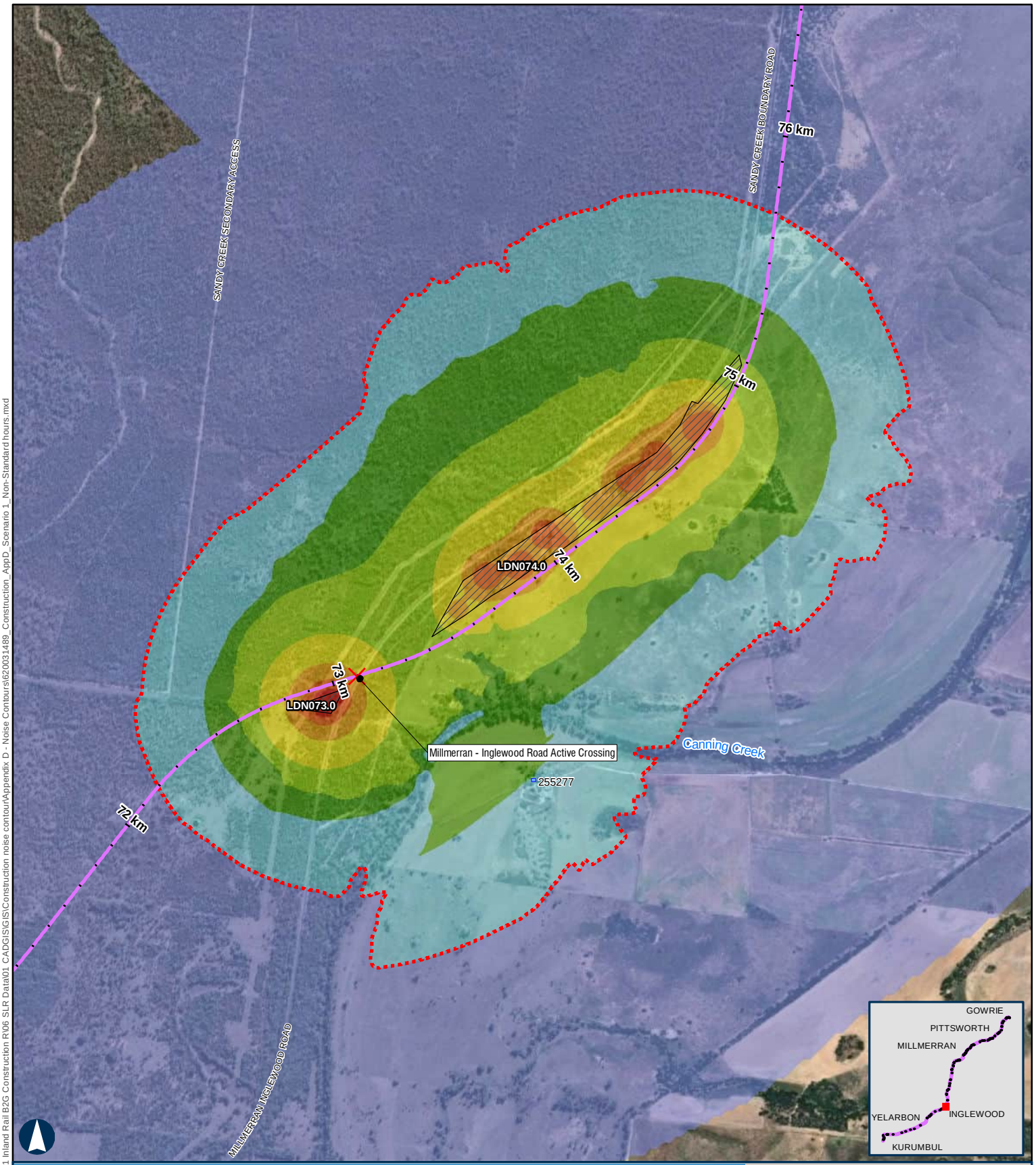

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 16 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
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- Criteria (45 dBA)
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
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- Parkland
- Future Developments

Noise Levels
- <45 dBA
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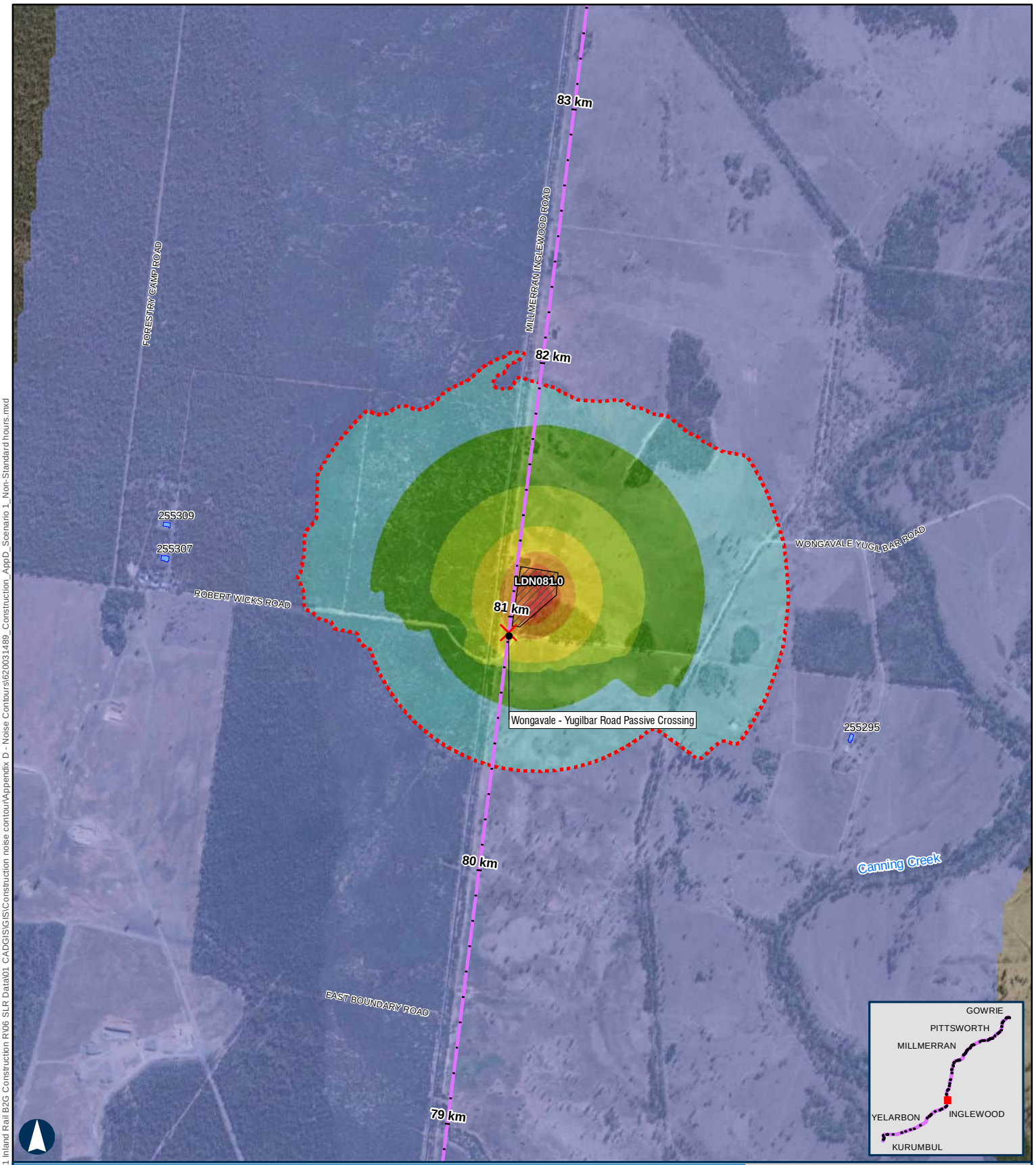

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 17 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type
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Noise Levels
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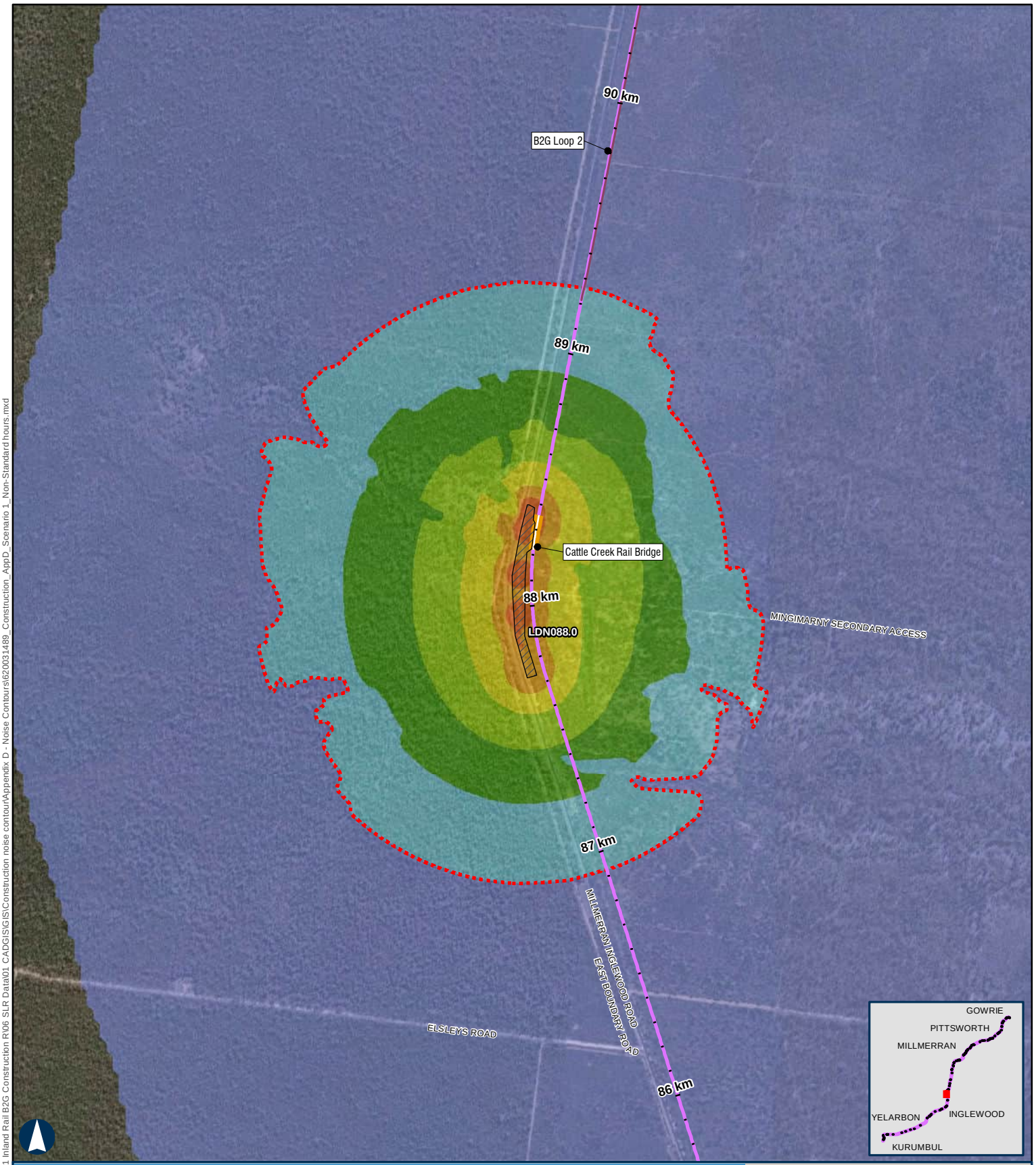

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 18 OF 48

100 m

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Author: JG

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Sensitive Receptor Type
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- Community
- Educational
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- Future Developments

Noise Levels
- <45 dBA
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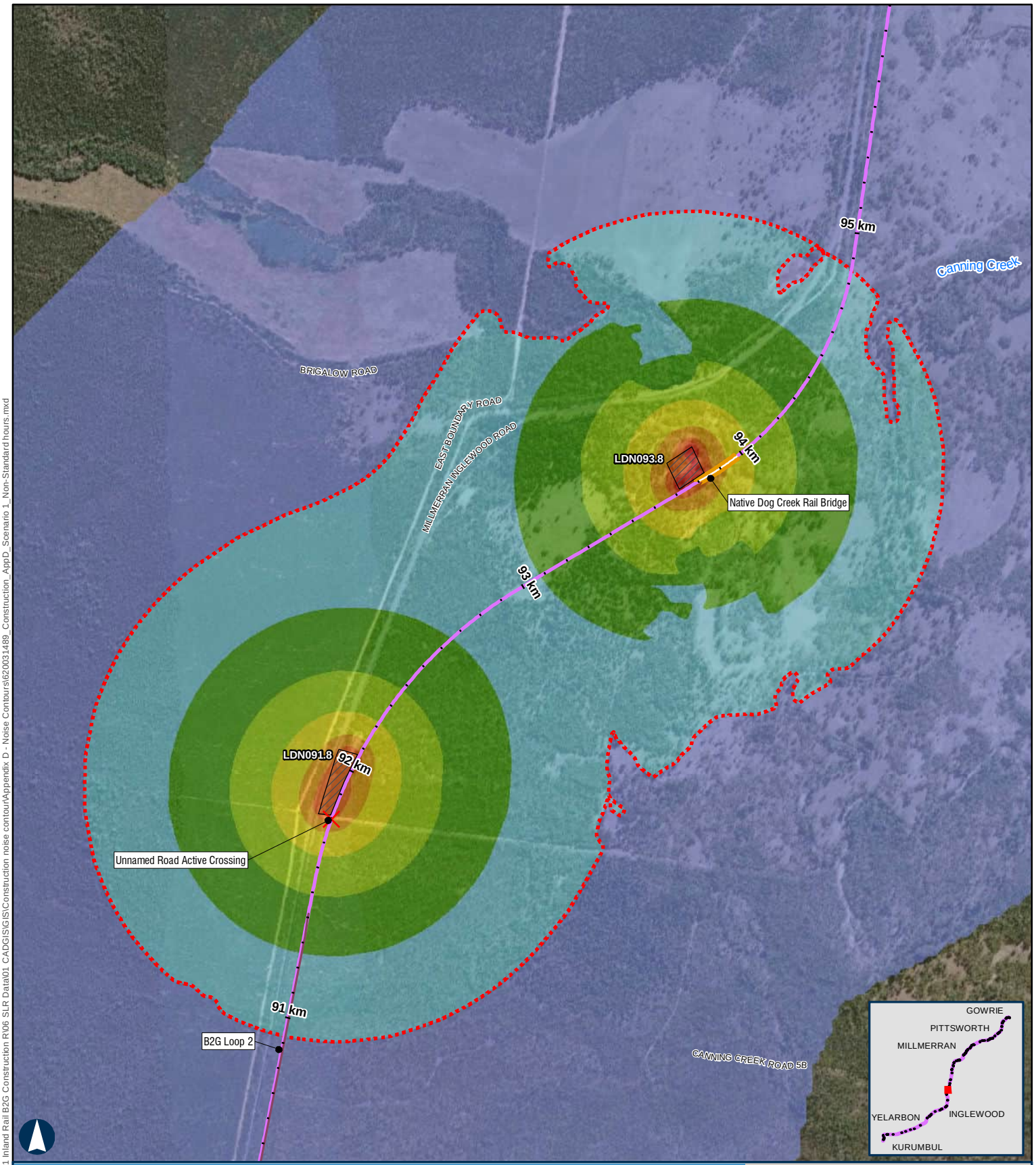

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 19 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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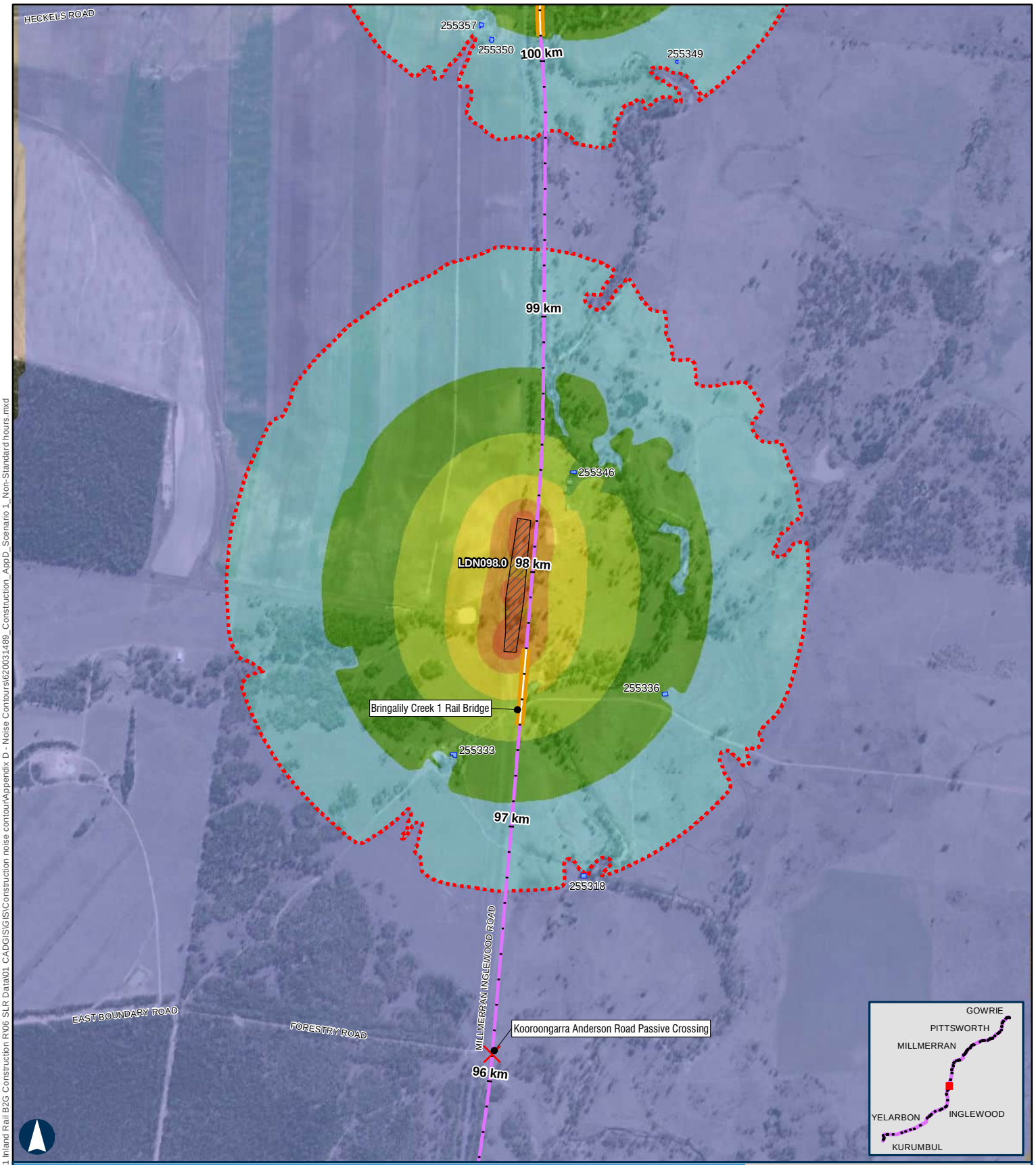

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 20 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Parkland
- Future Developments

Noise Levels
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- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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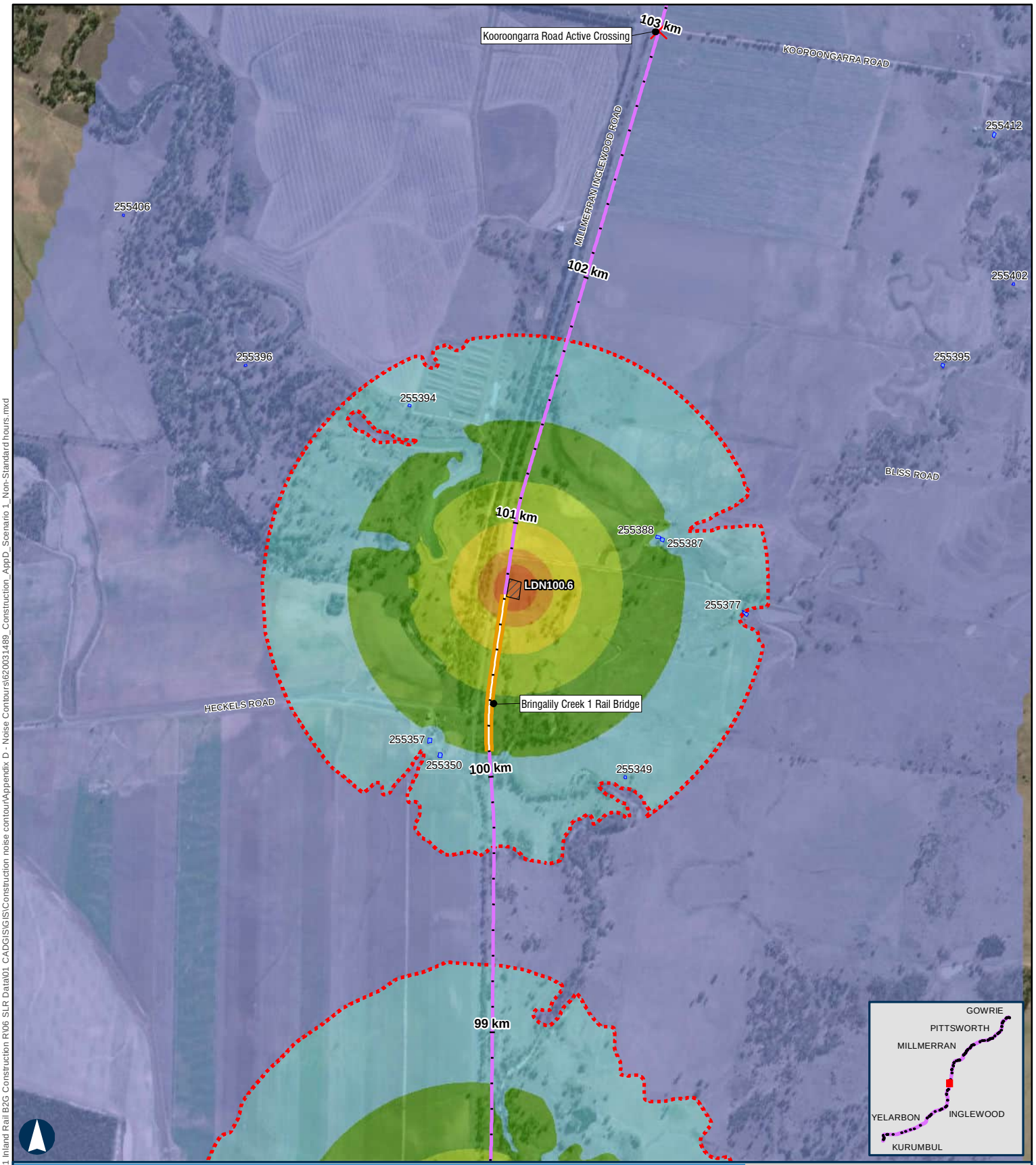

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 21 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Future Developments

Noise Levels
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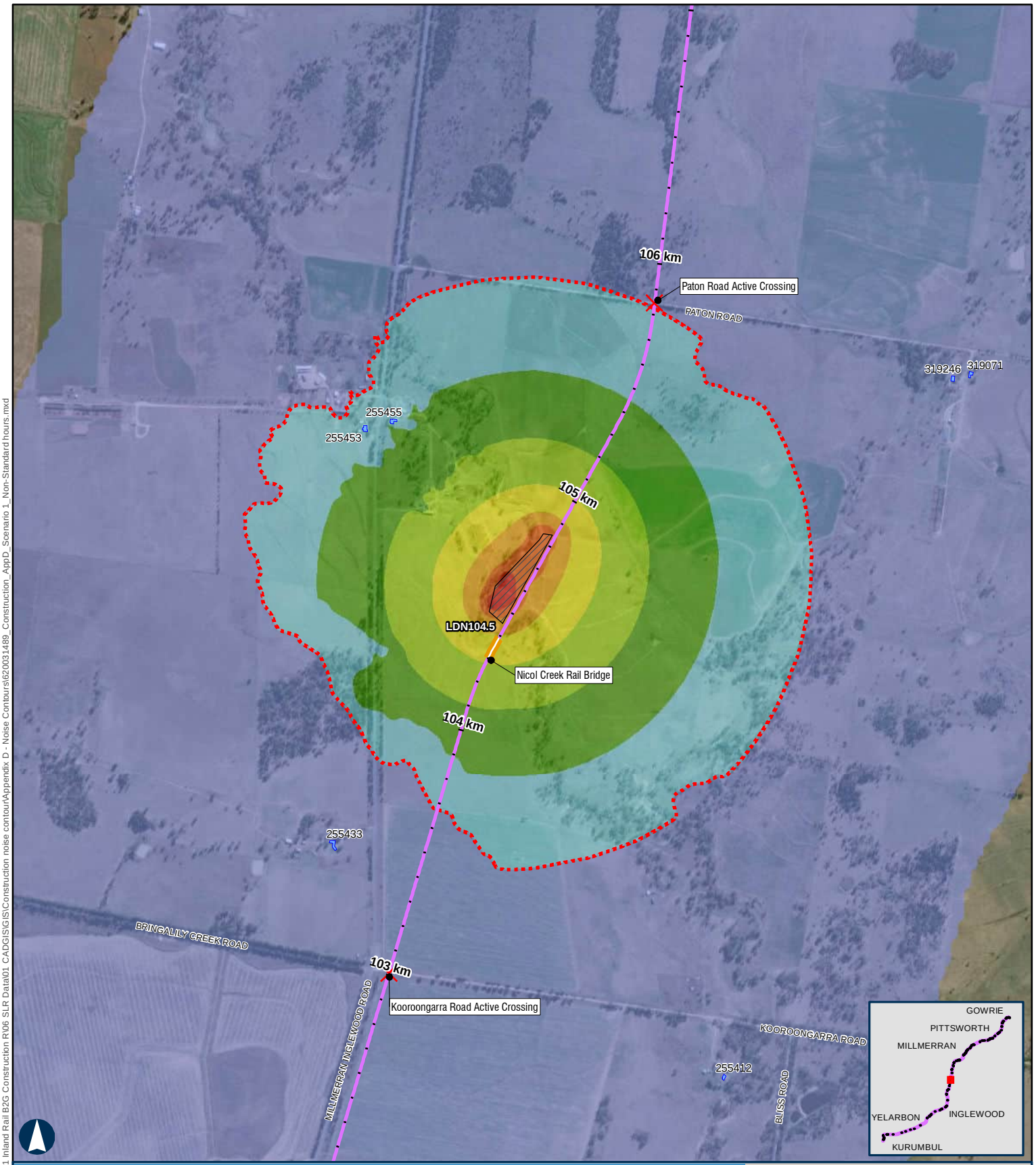

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 22 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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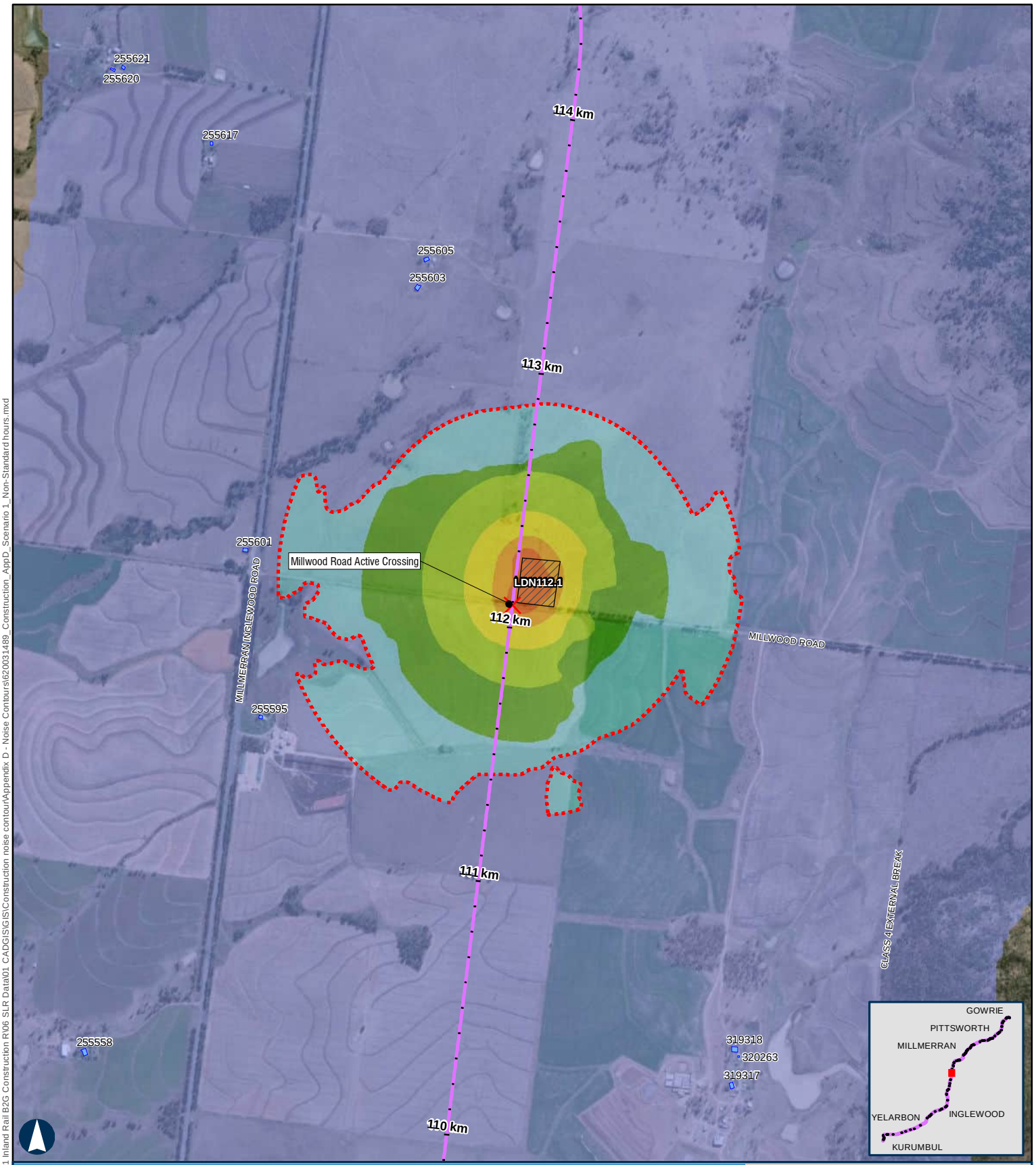

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 23 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Future Developments

Noise Levels
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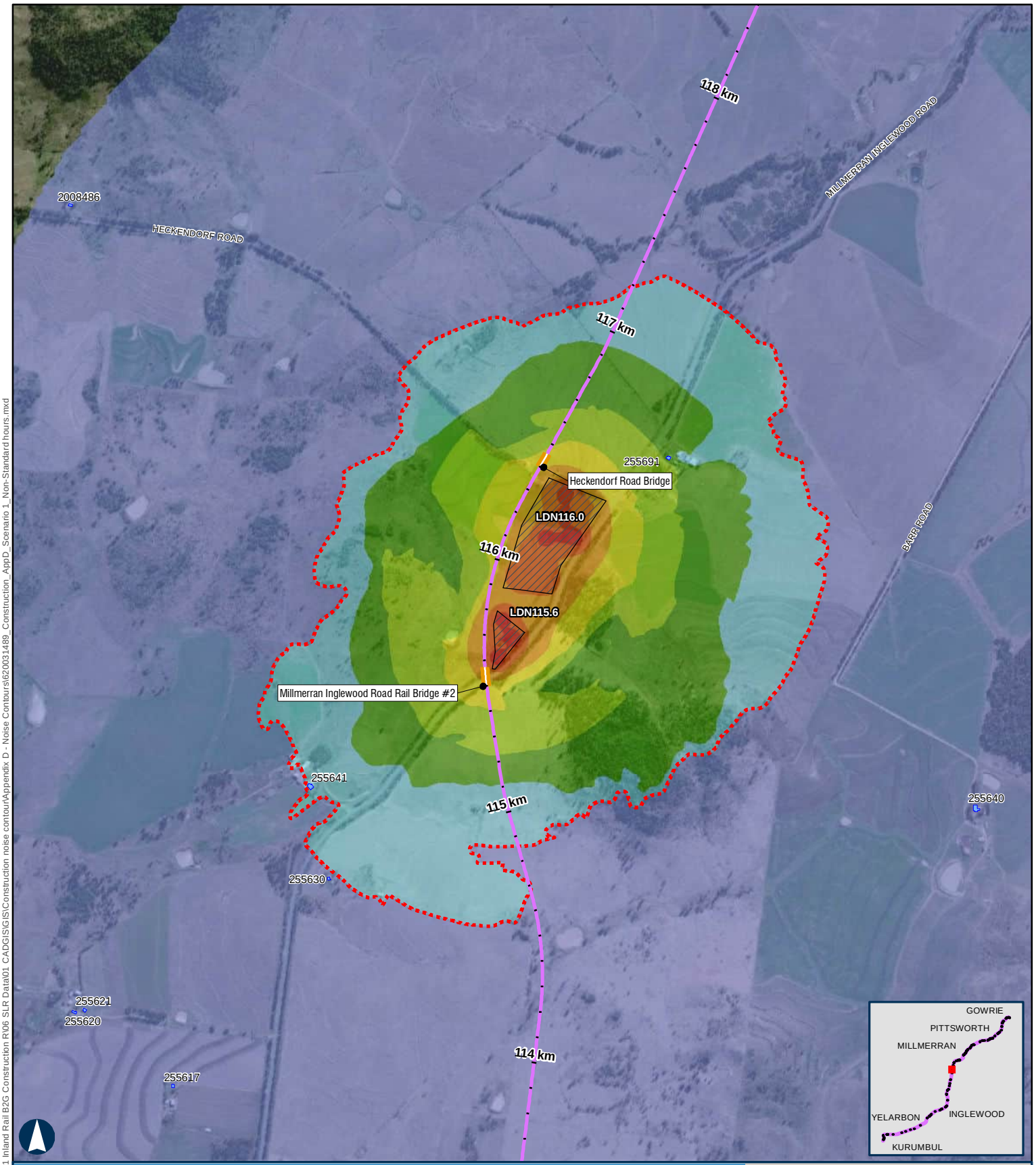

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 24 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Work Area
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Sensitive Receptor Type
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- Future Developments

Noise Levels
- <45 dBA
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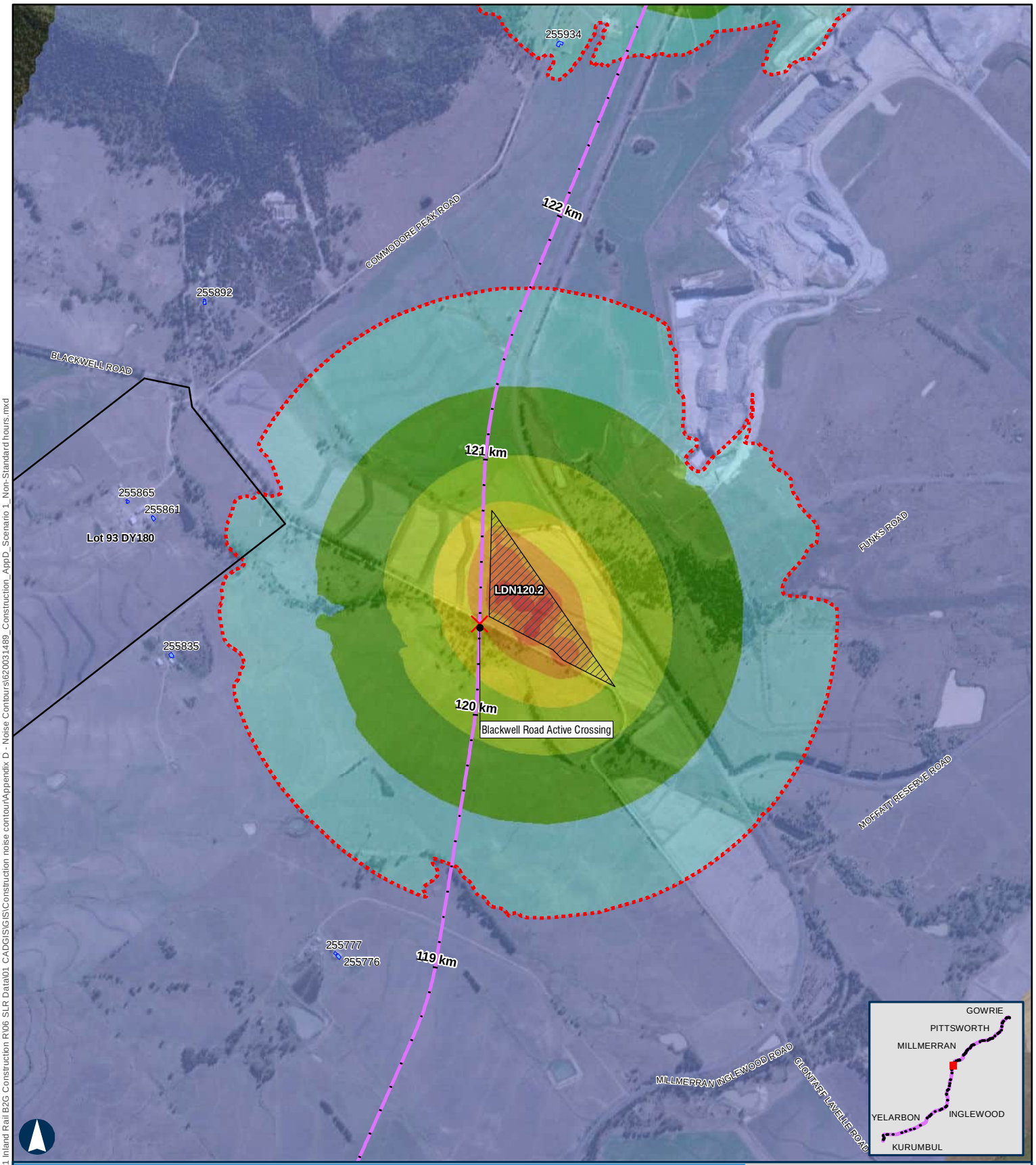

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 25 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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Sensitive Receptor Type
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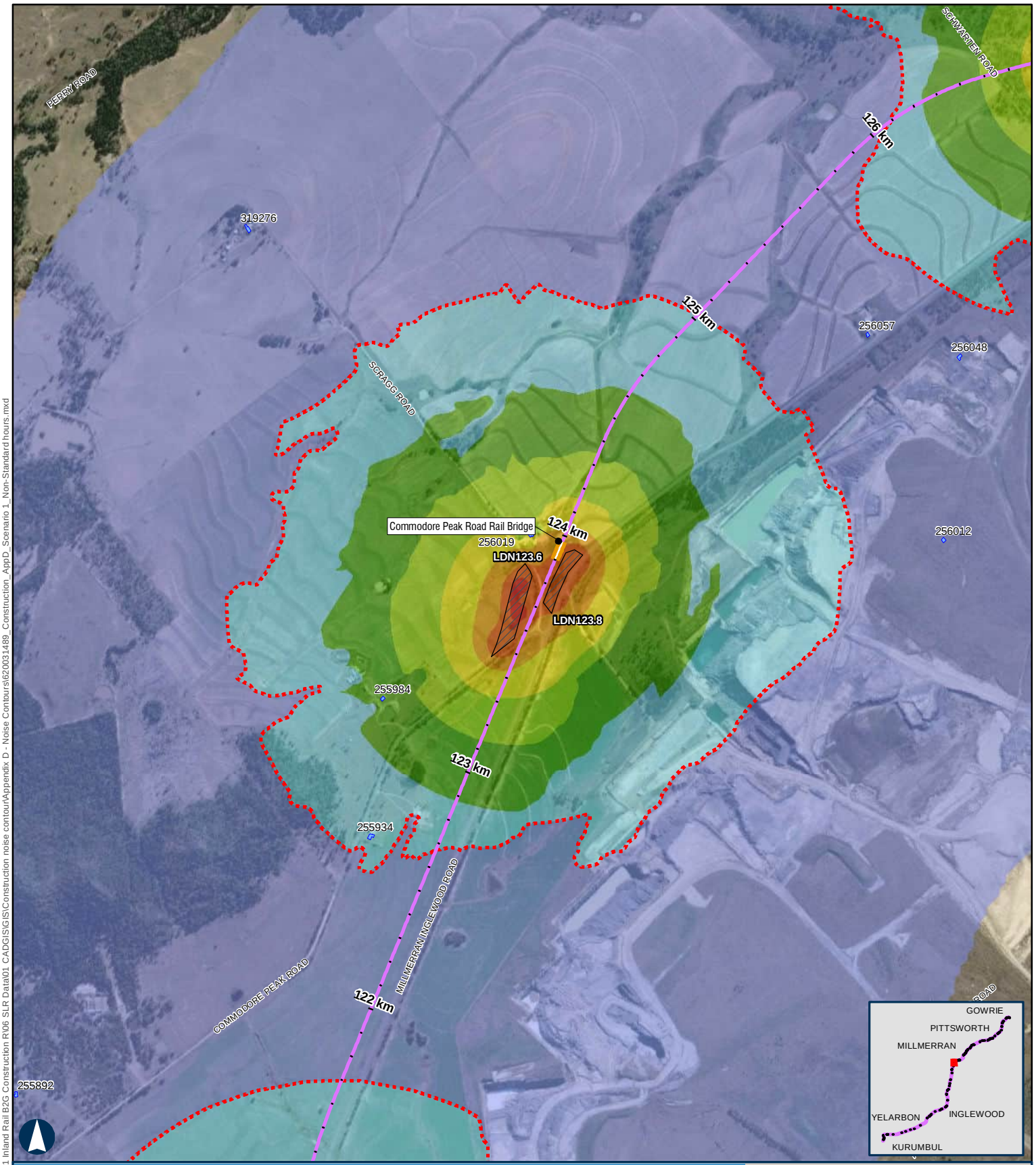

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 26 OF 48

100 m

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Author: JG

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Noise Levels
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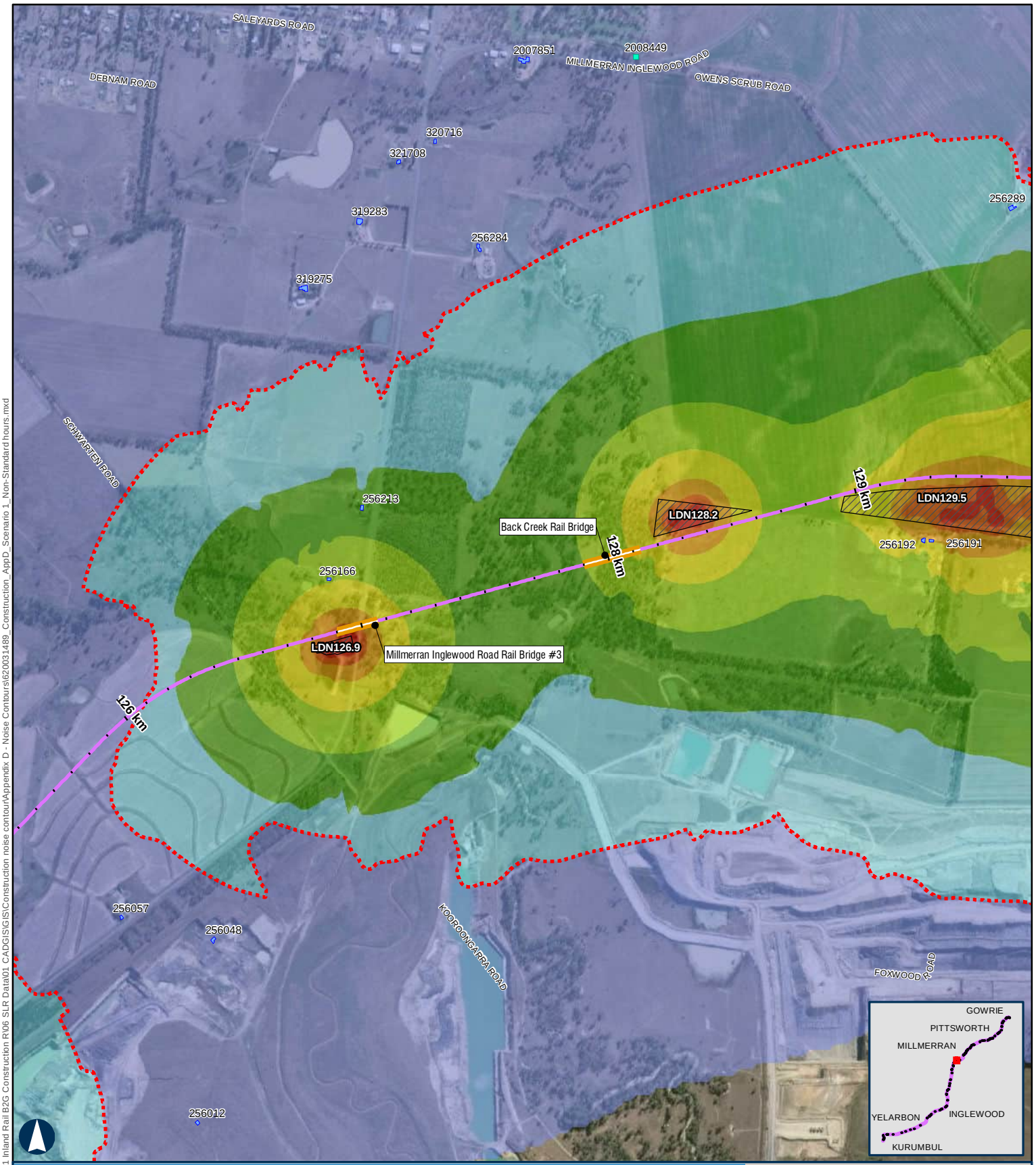

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 27 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
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- Koala Habitat Area

Sensitive Receptor Type
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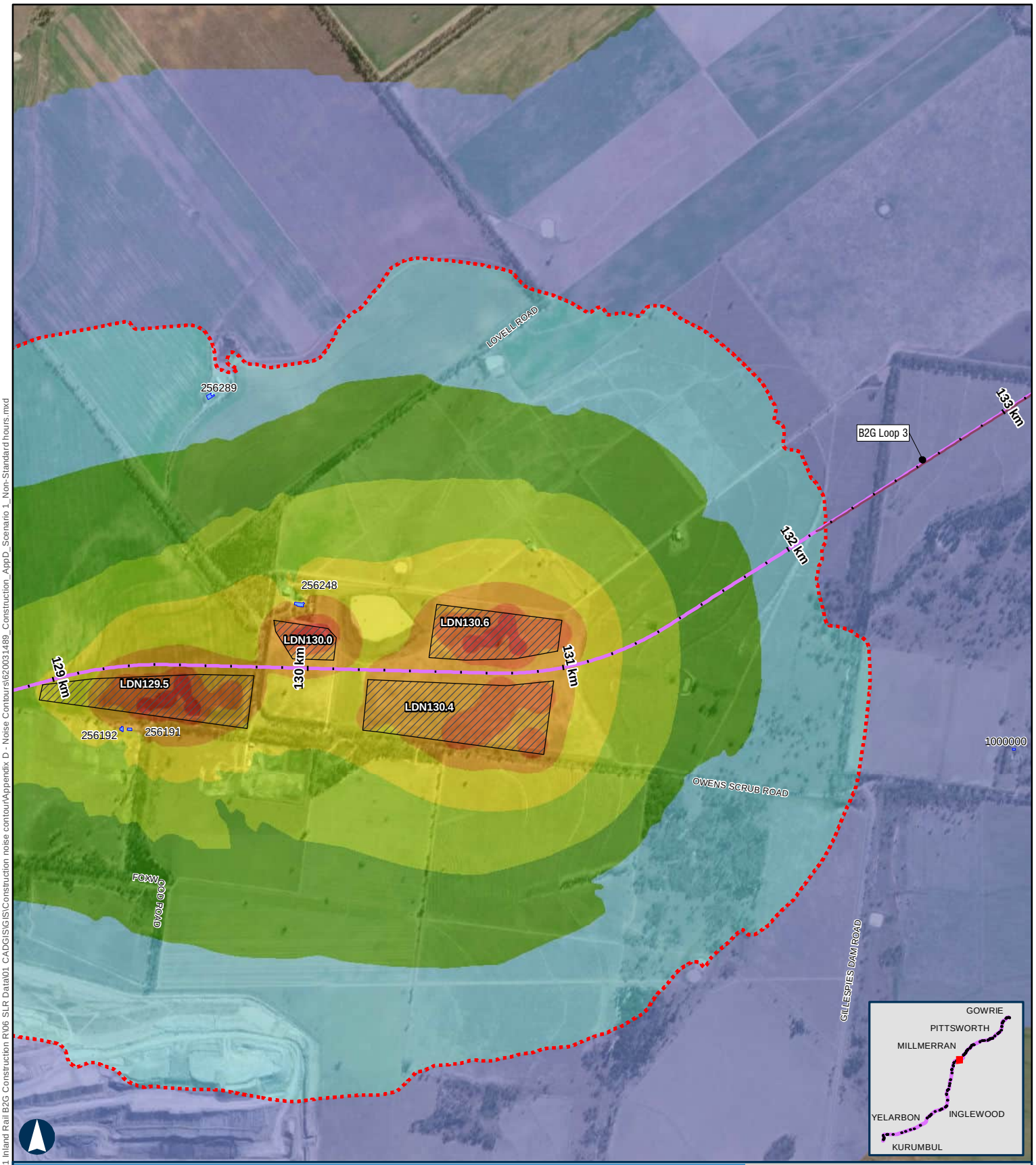

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 28 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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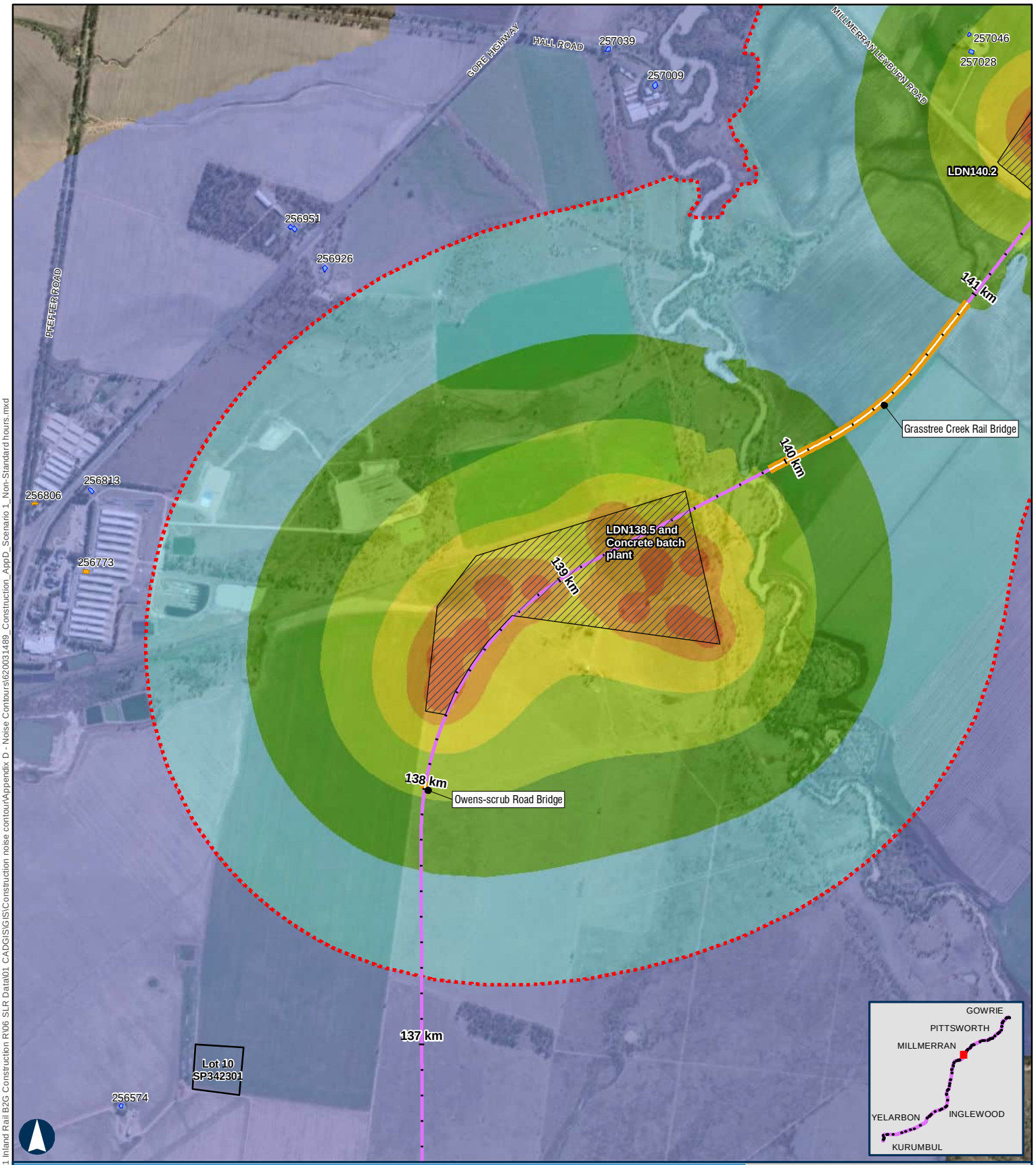

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 29 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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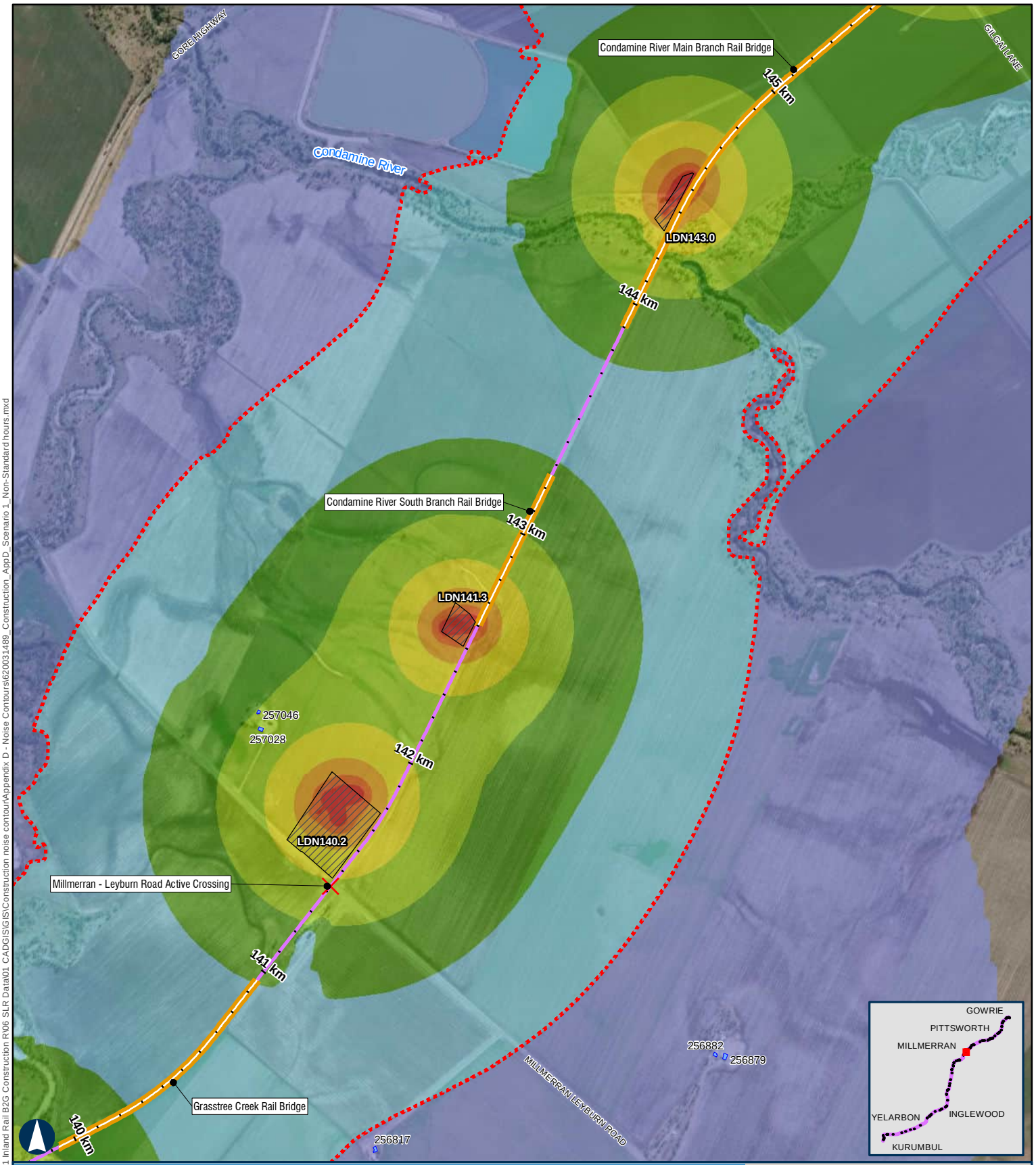

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 30 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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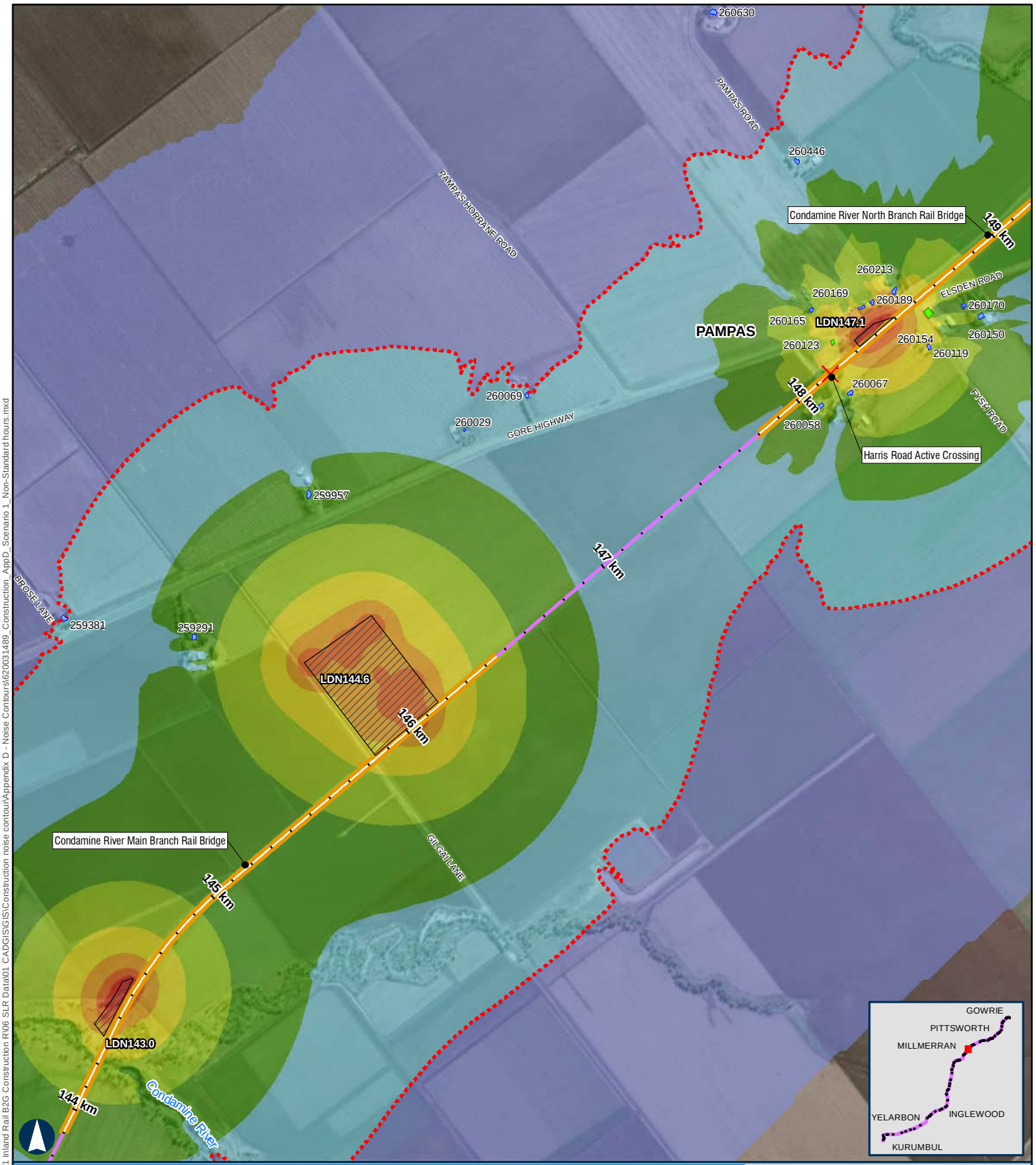

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 31 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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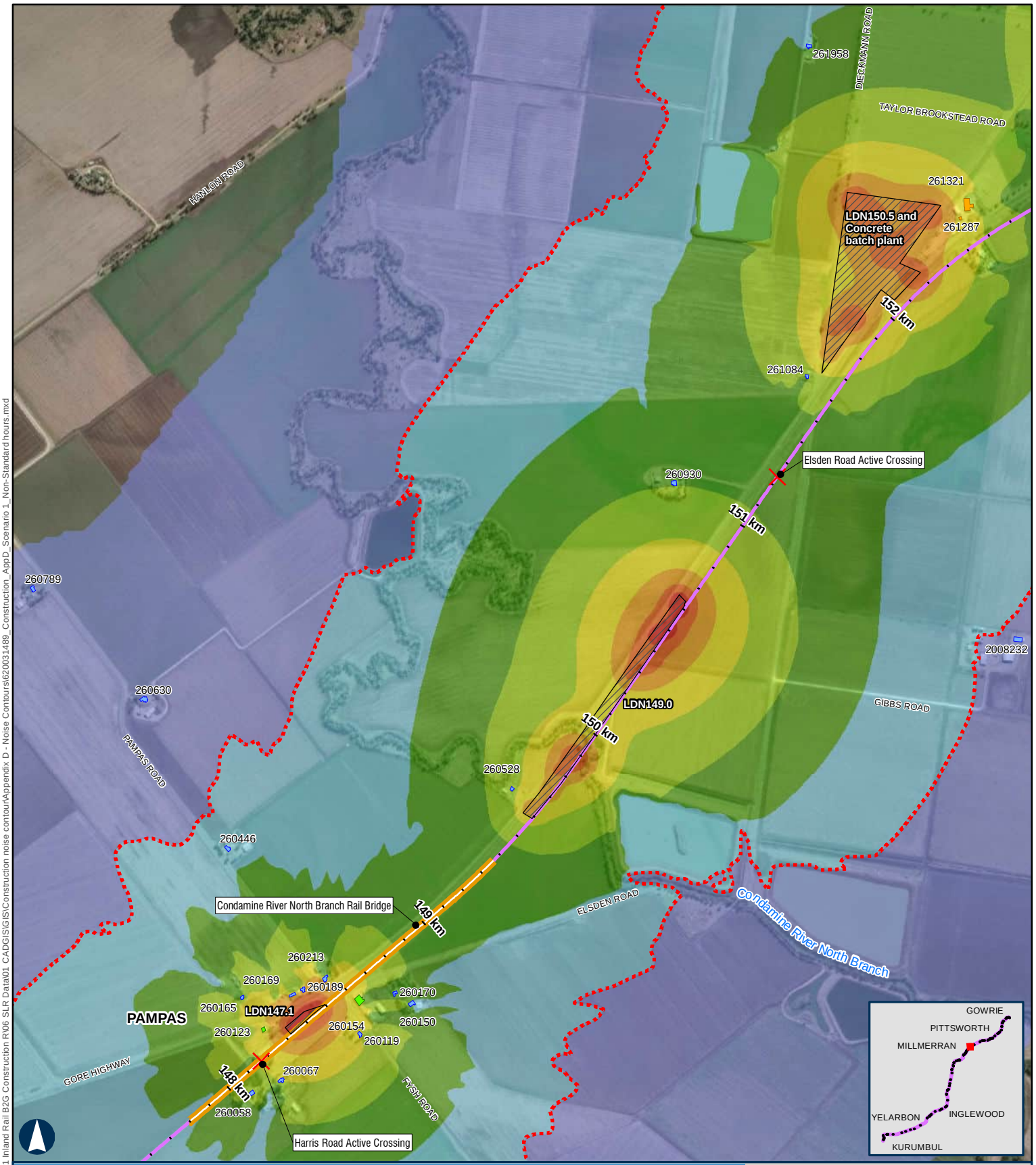

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 32 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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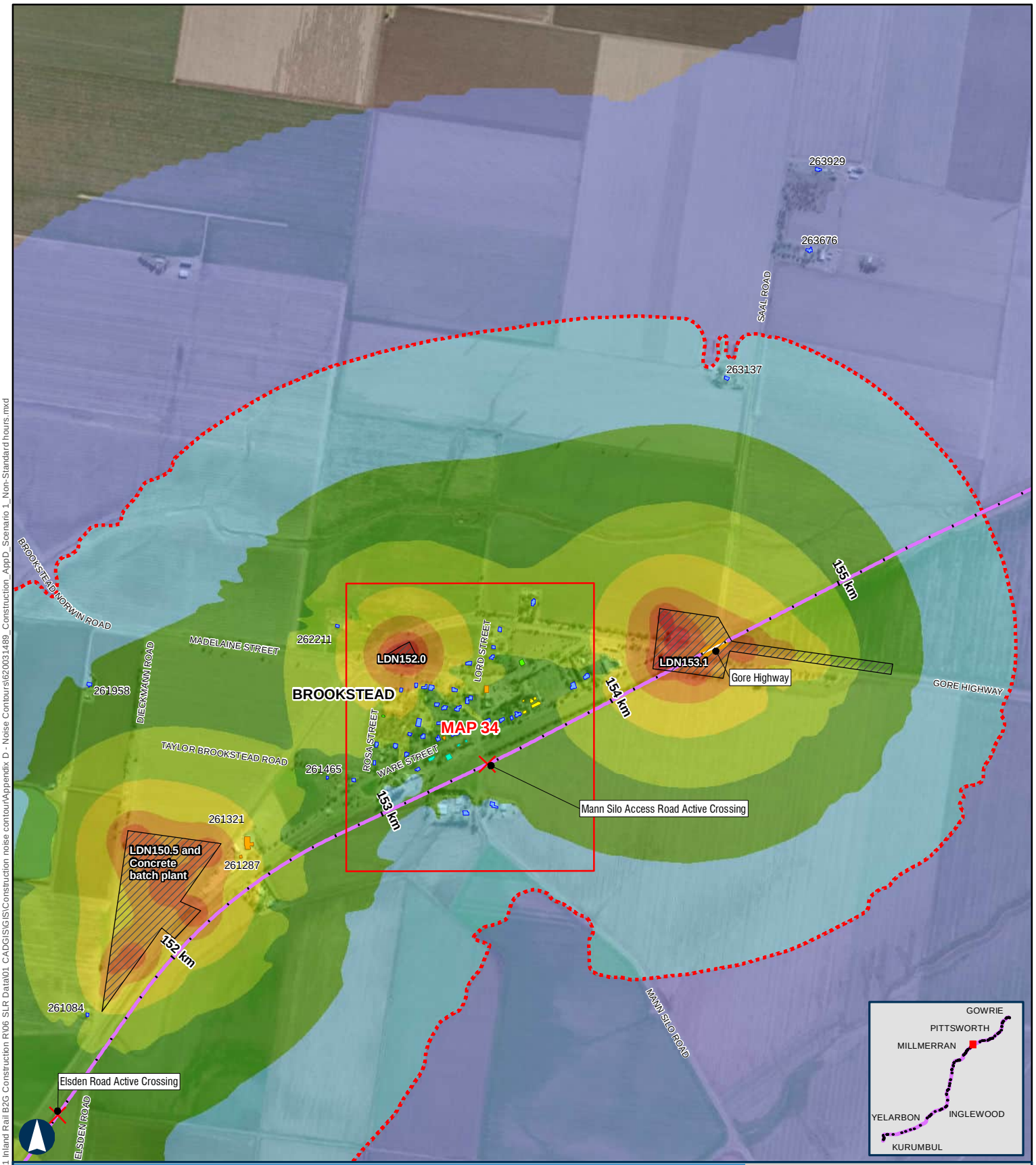

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 33 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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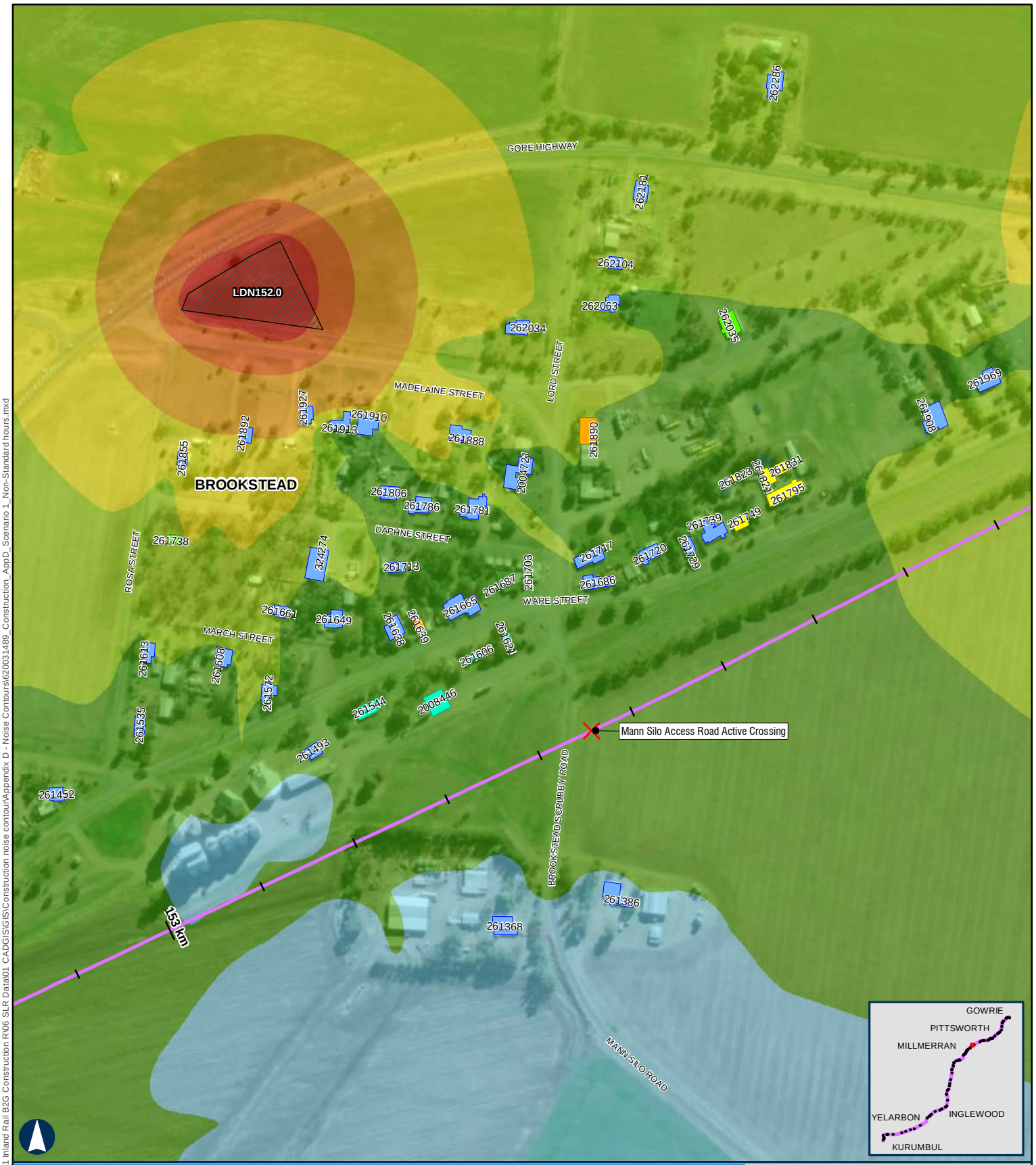

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 34 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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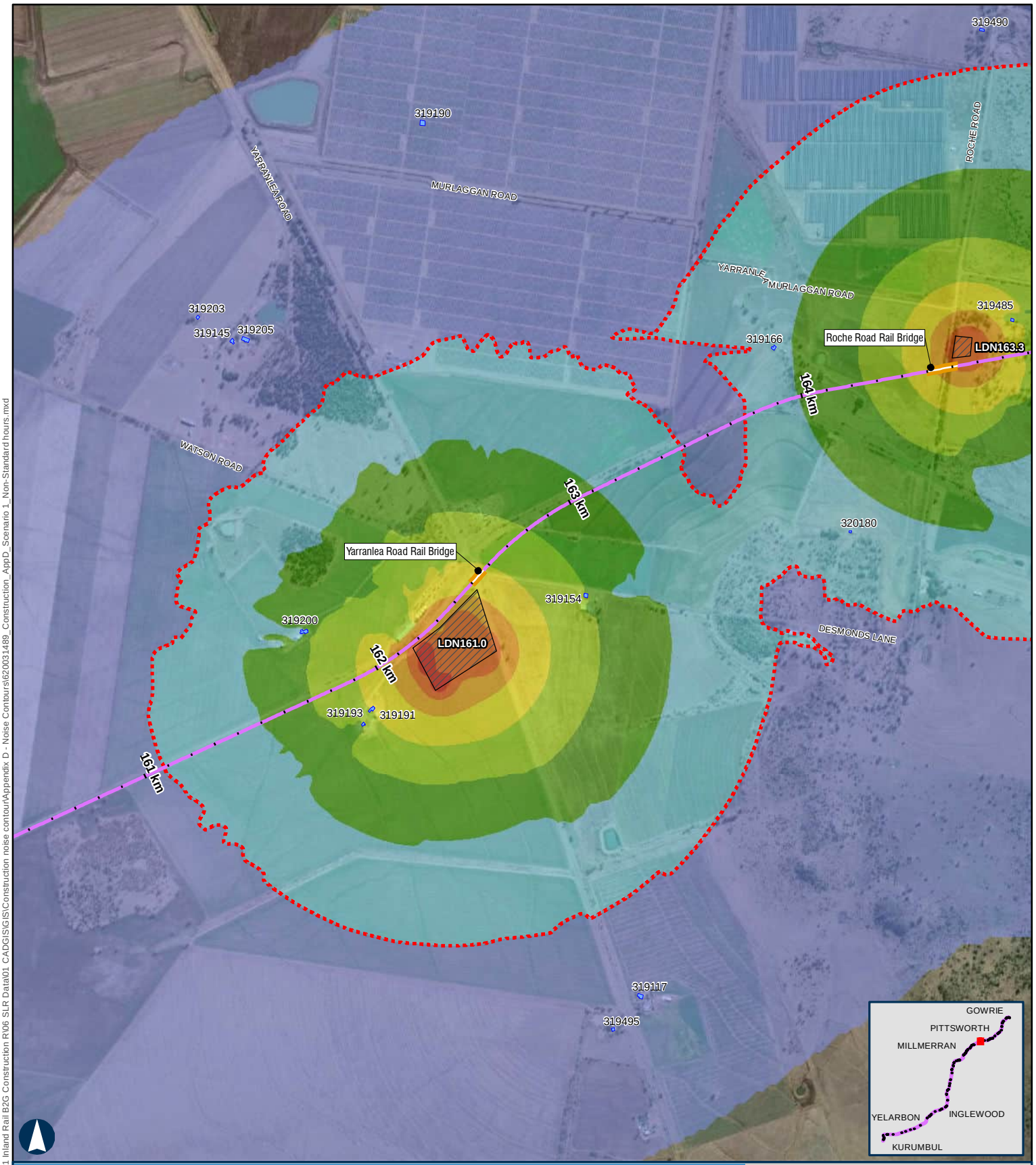

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 35 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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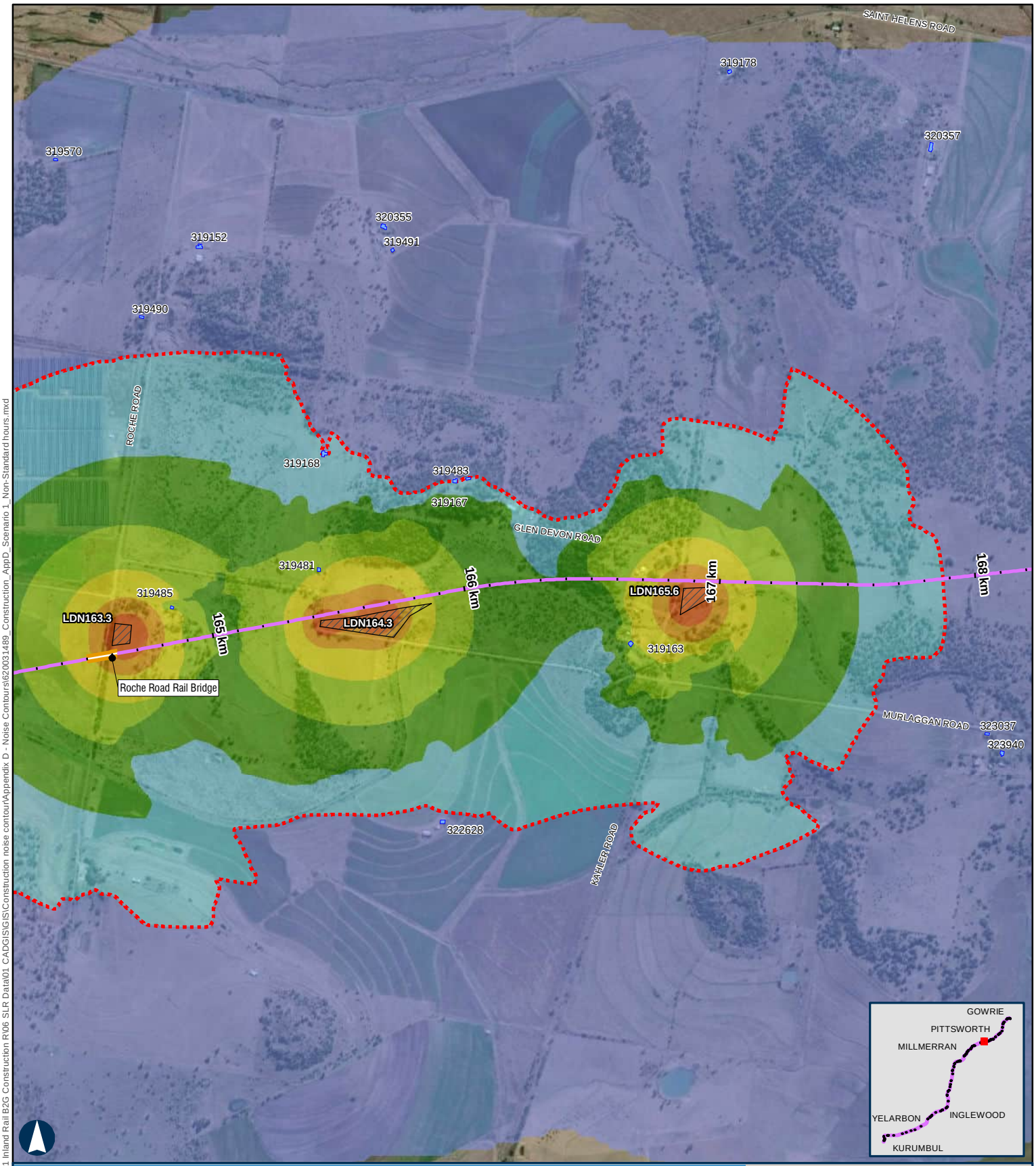

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 36 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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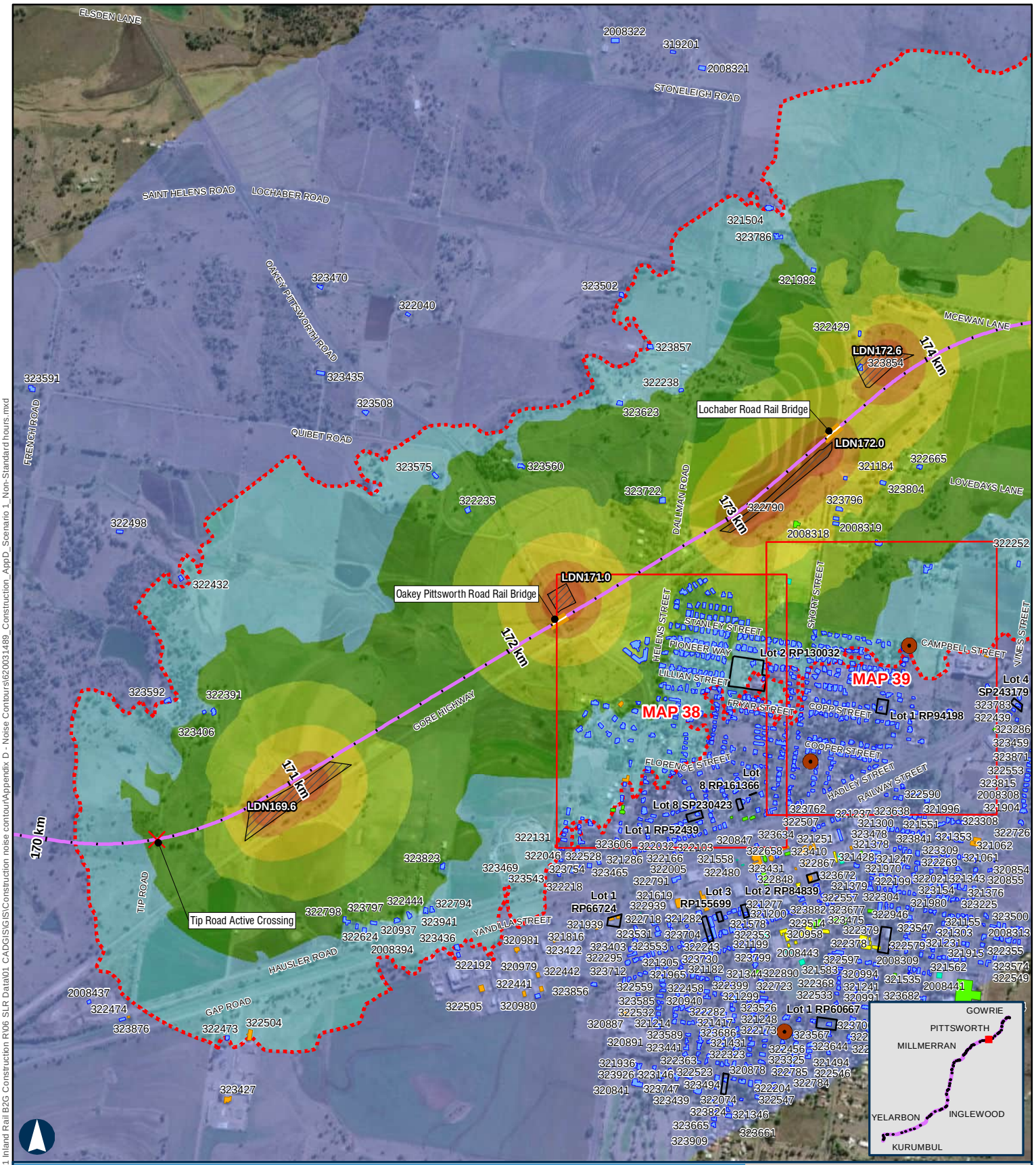

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 37 OF 48

100 m

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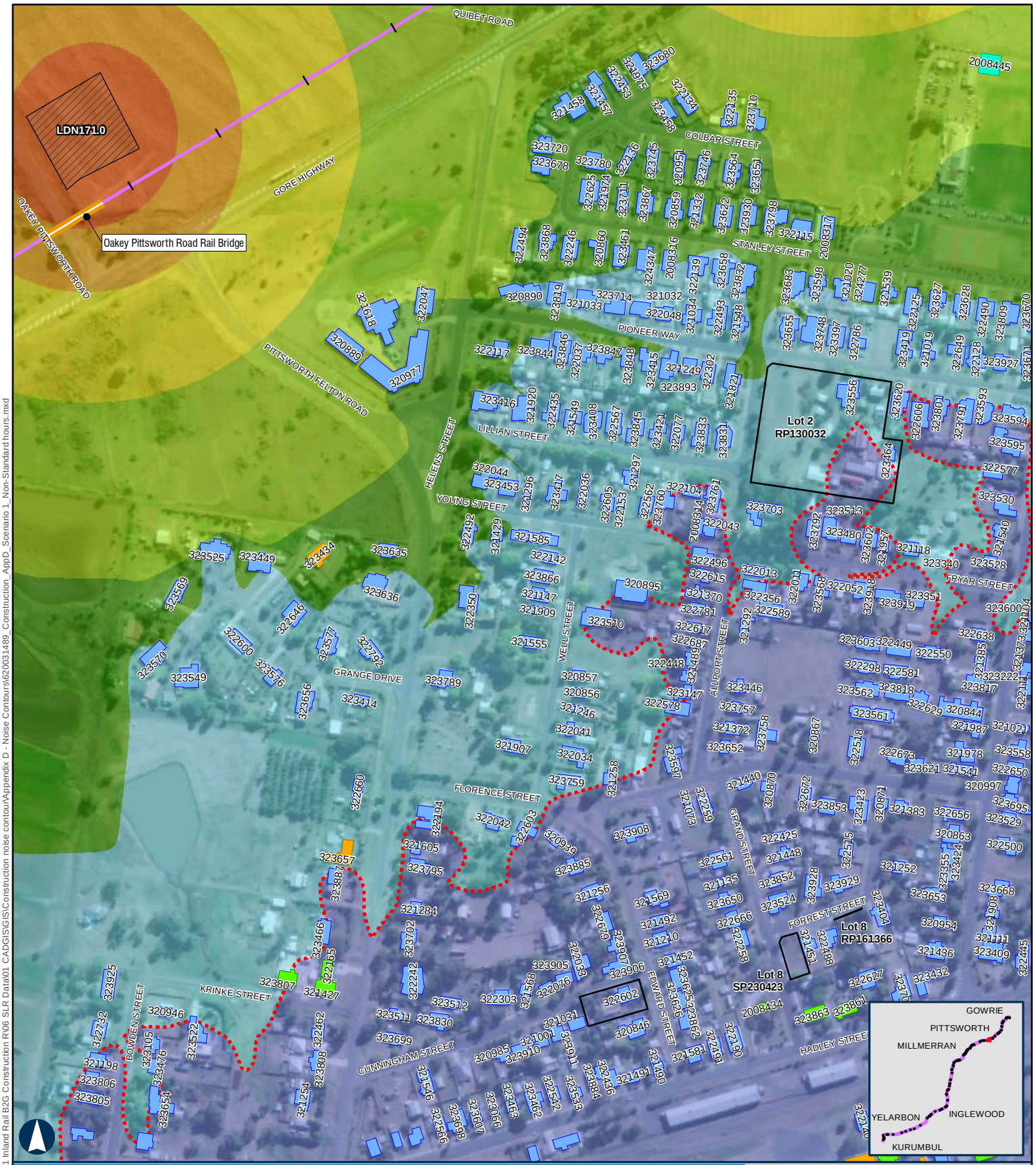

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 38 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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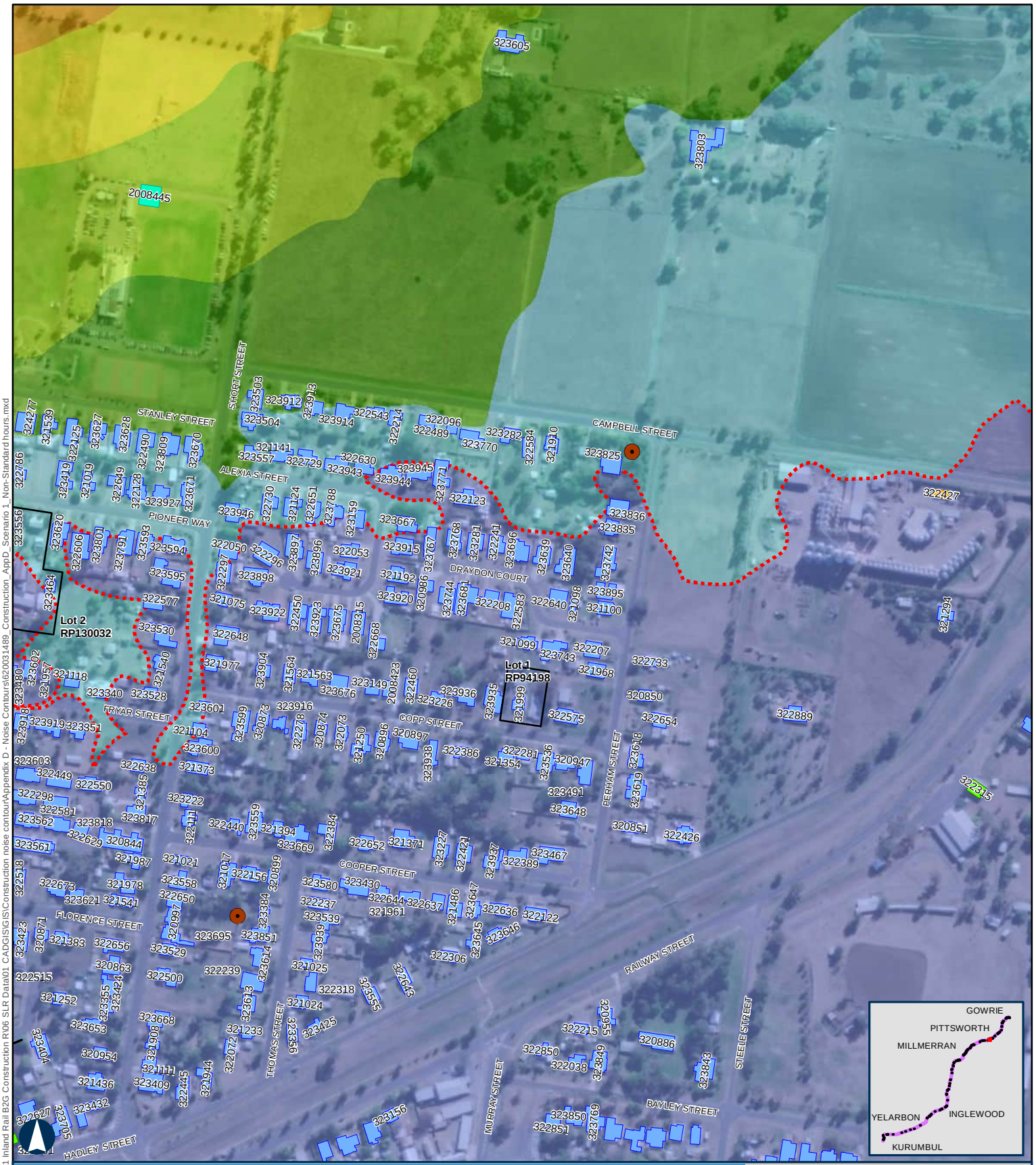

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 39 OF 48

100 m

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Sensitive Receptor Type

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Noise Levels

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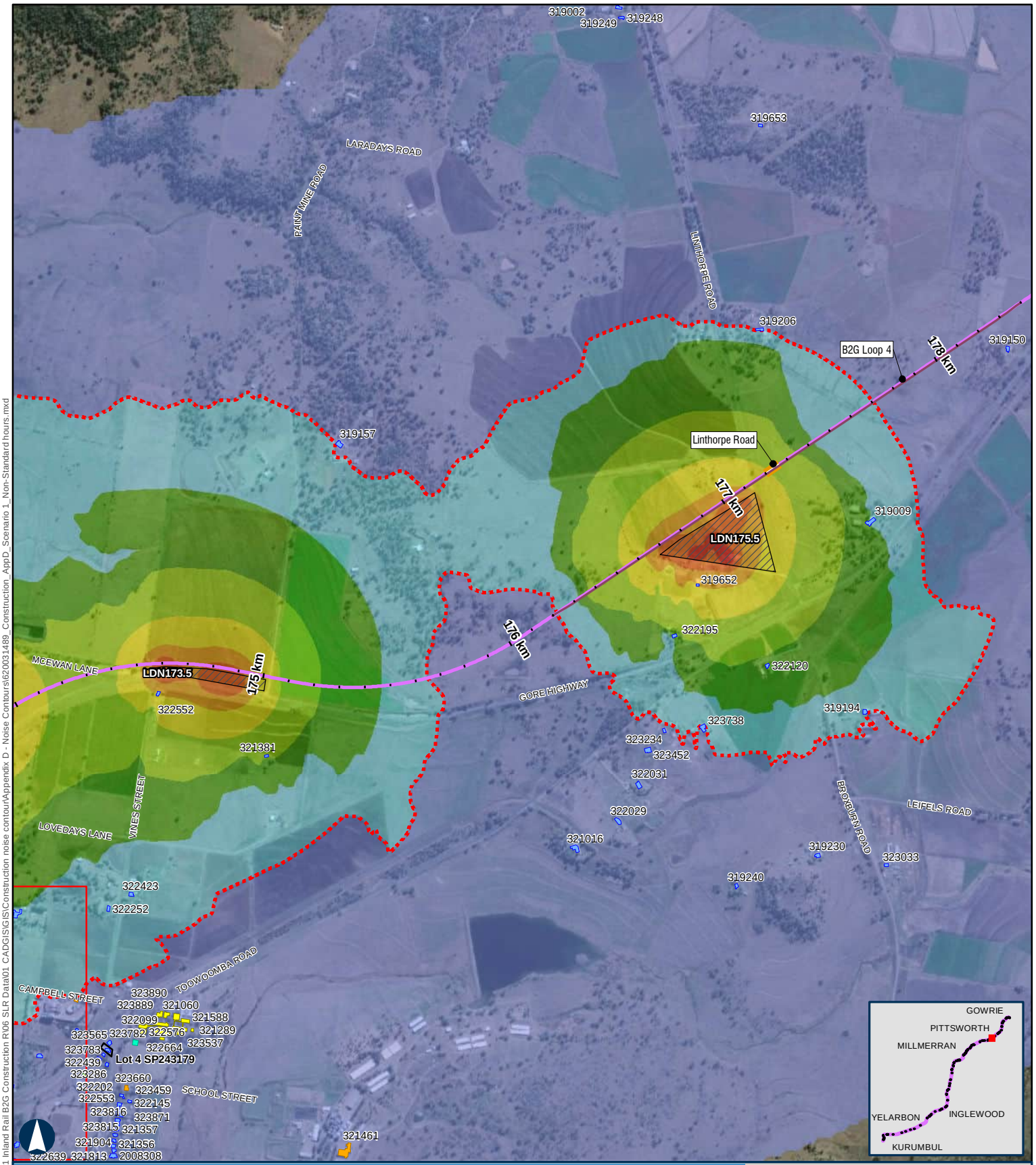

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 40 OF 48

100 m

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Author: JG

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- Flying Fox Camp
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Sensitive Receptor Type
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Noise Levels
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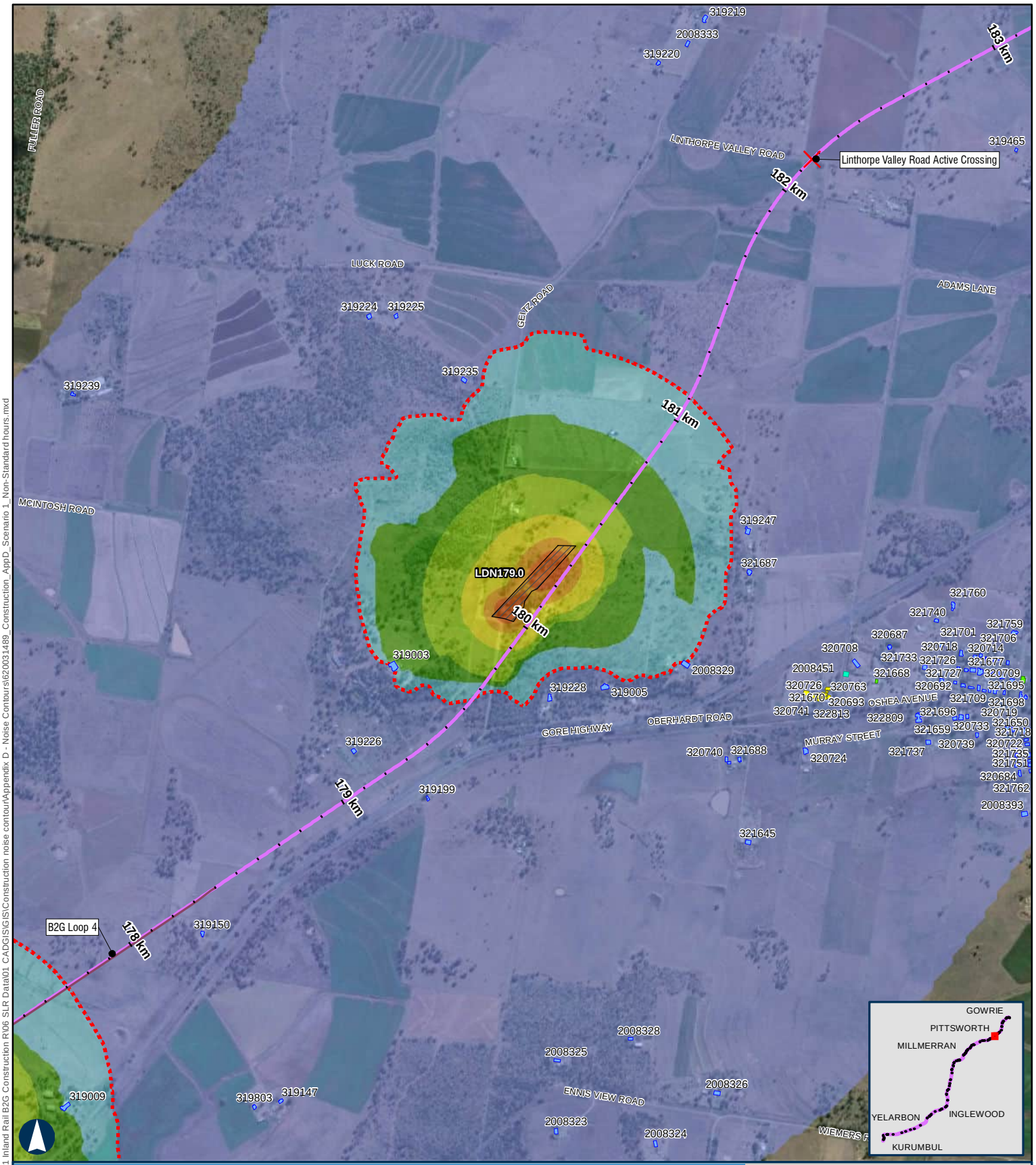

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 41 OF 48

100 m

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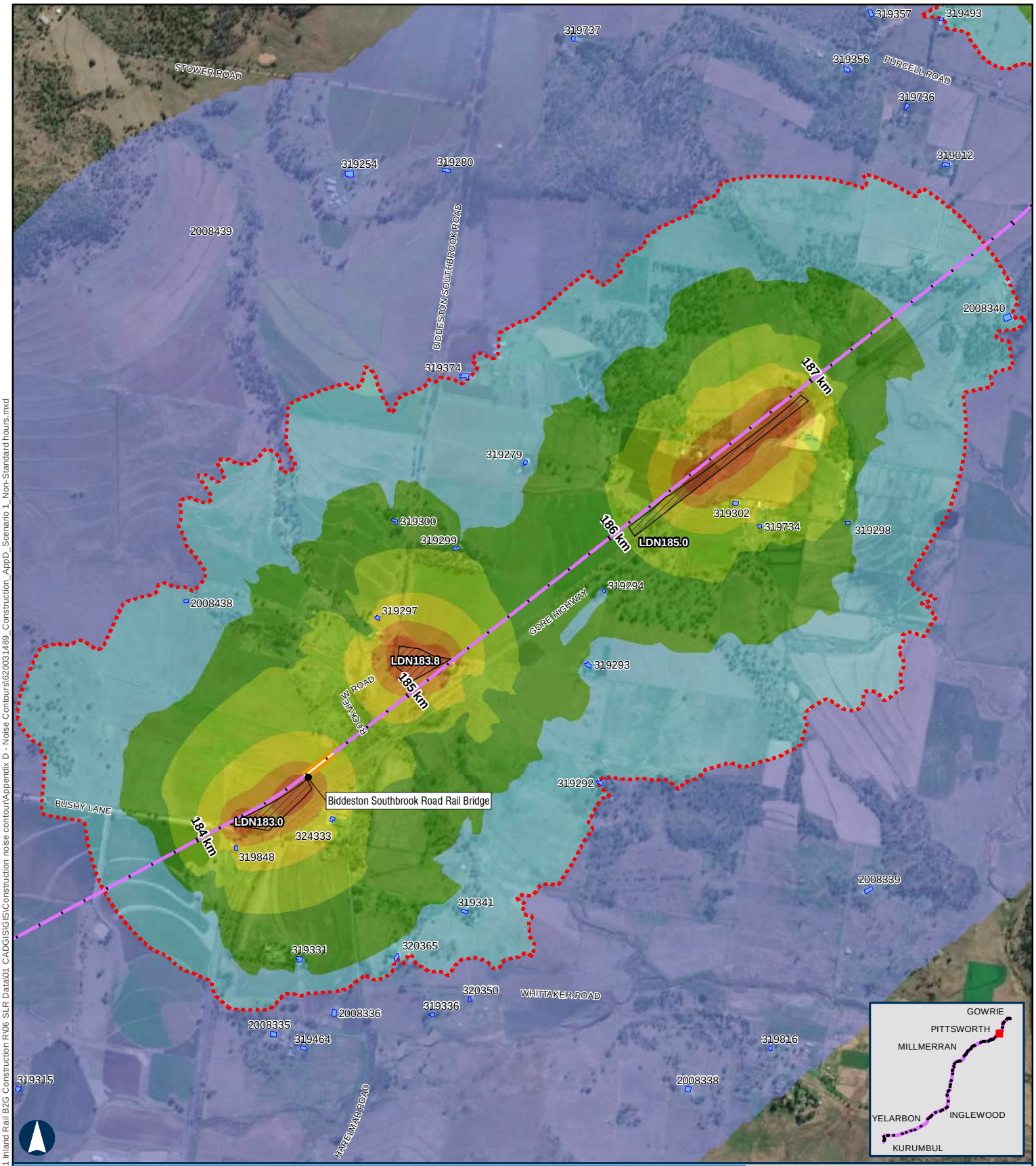

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 42 OF 48

100 m

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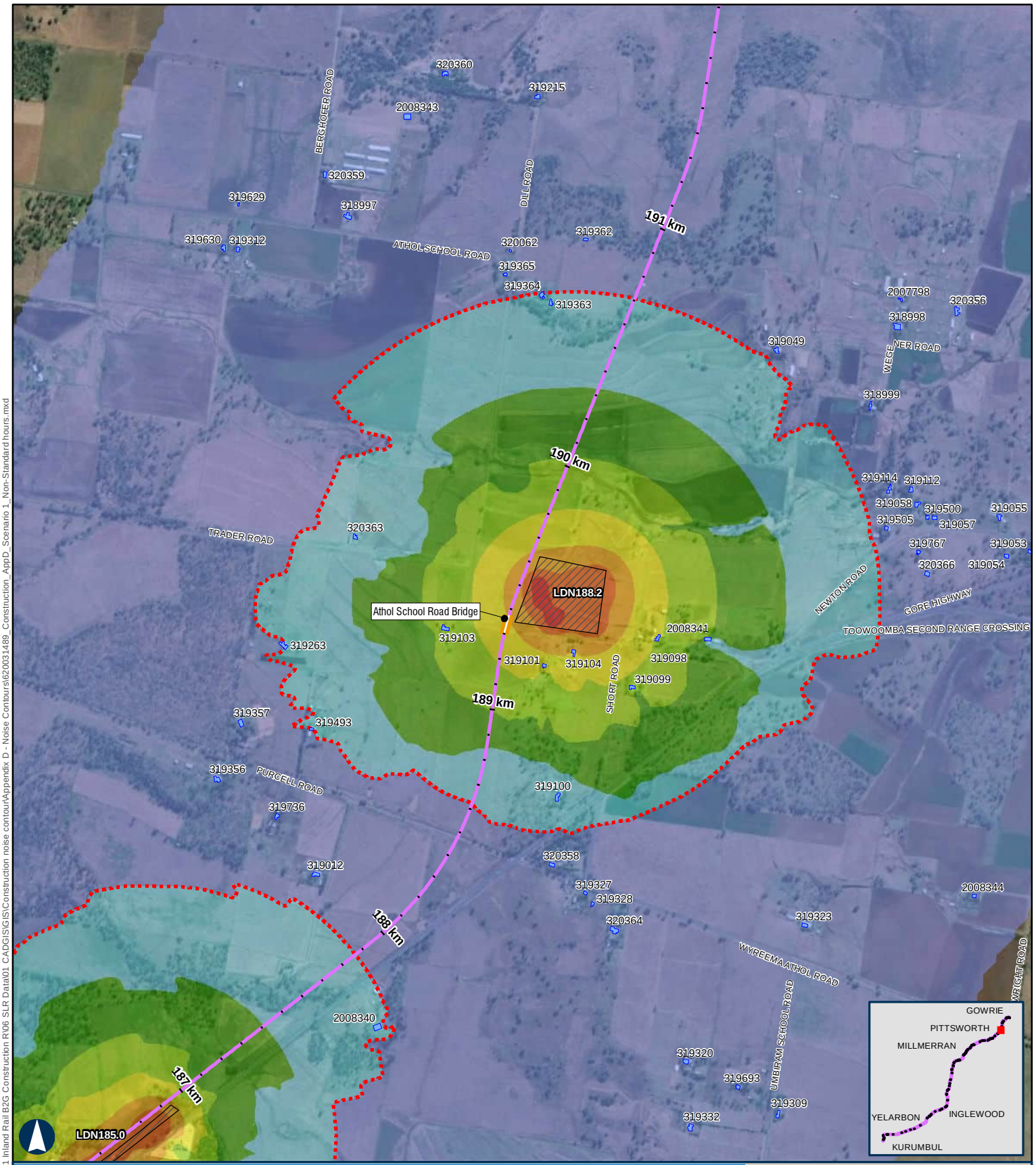

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 43 OF 48

100 m

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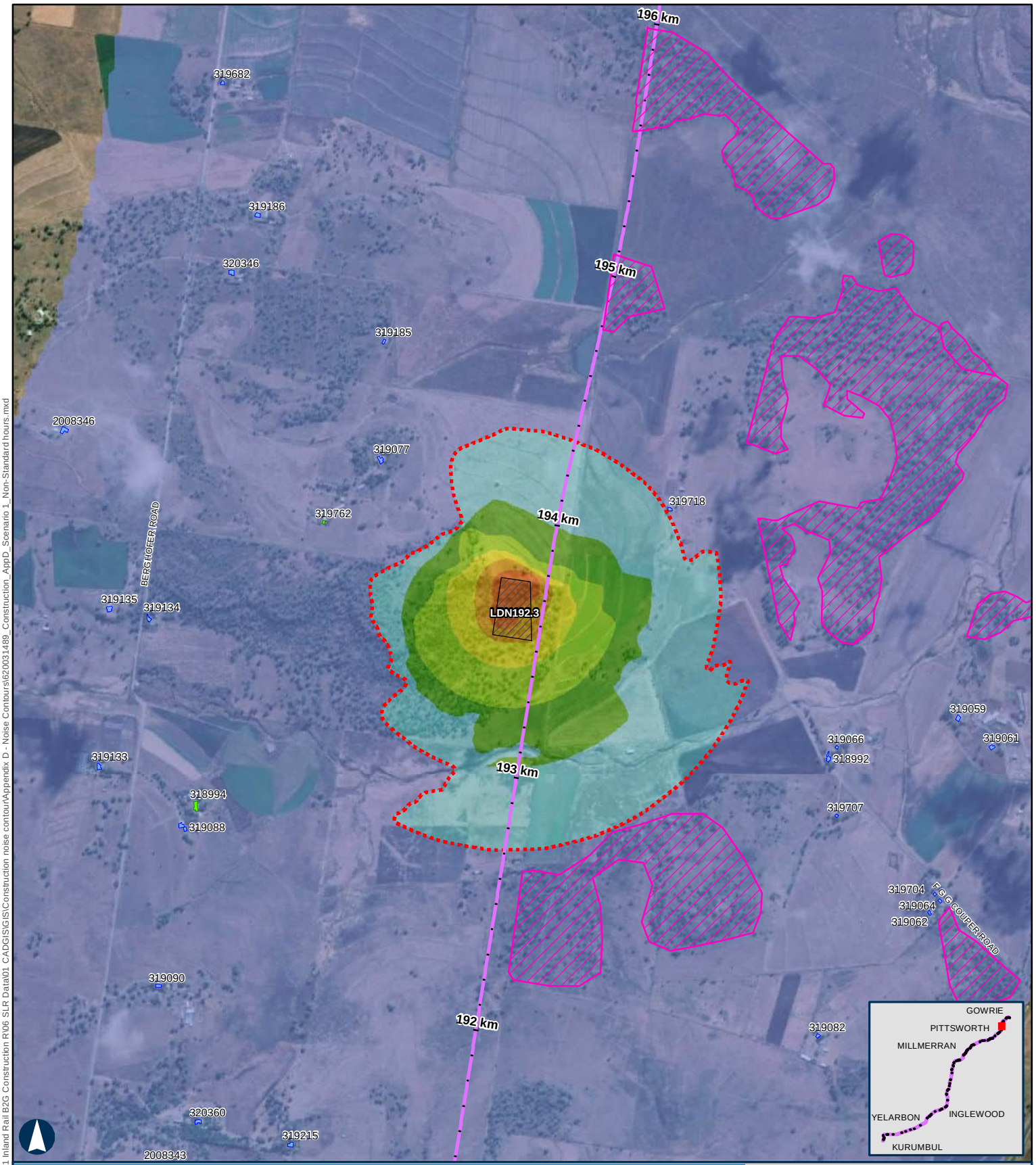

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 44 OF 48

100 m

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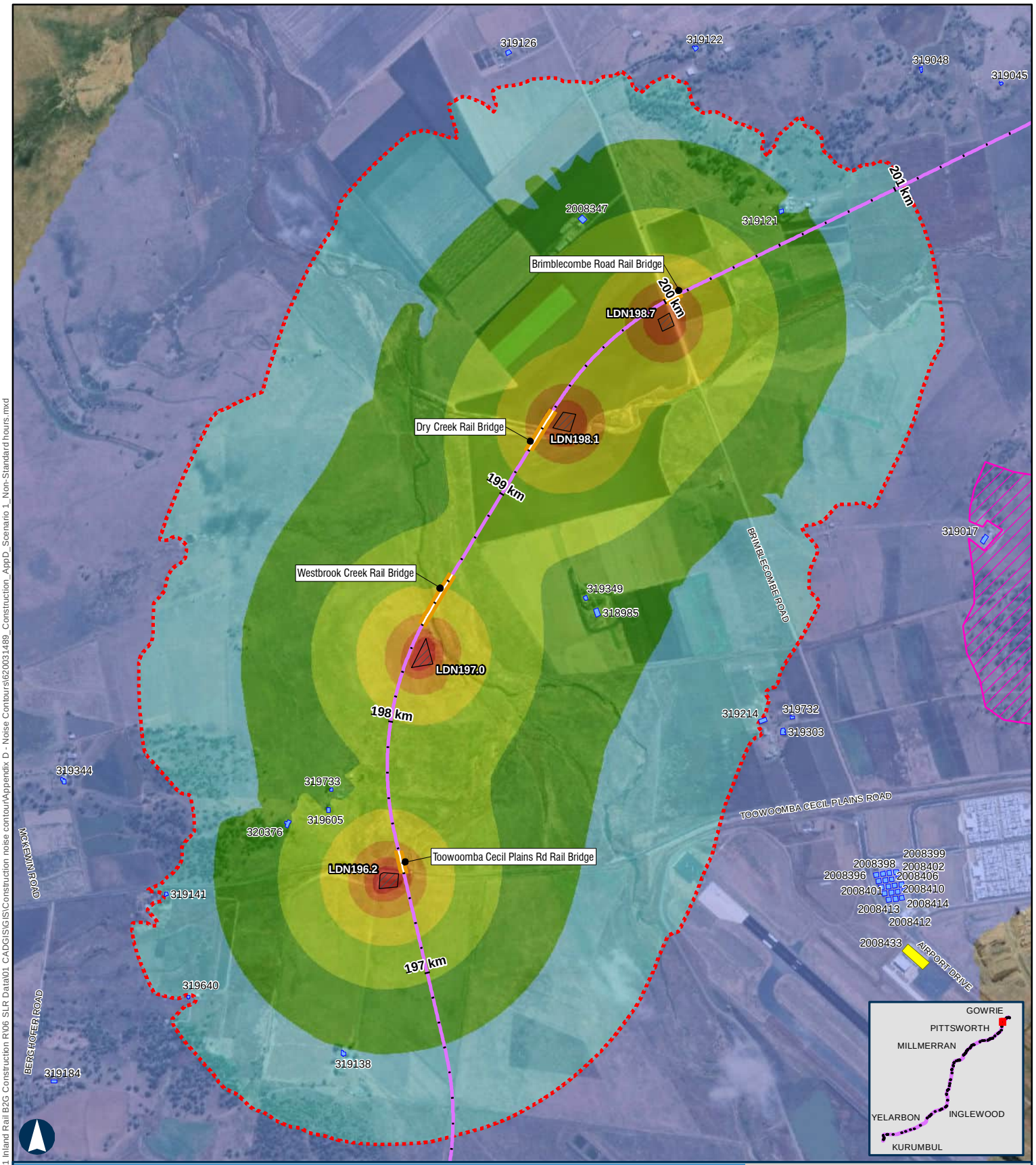

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 45 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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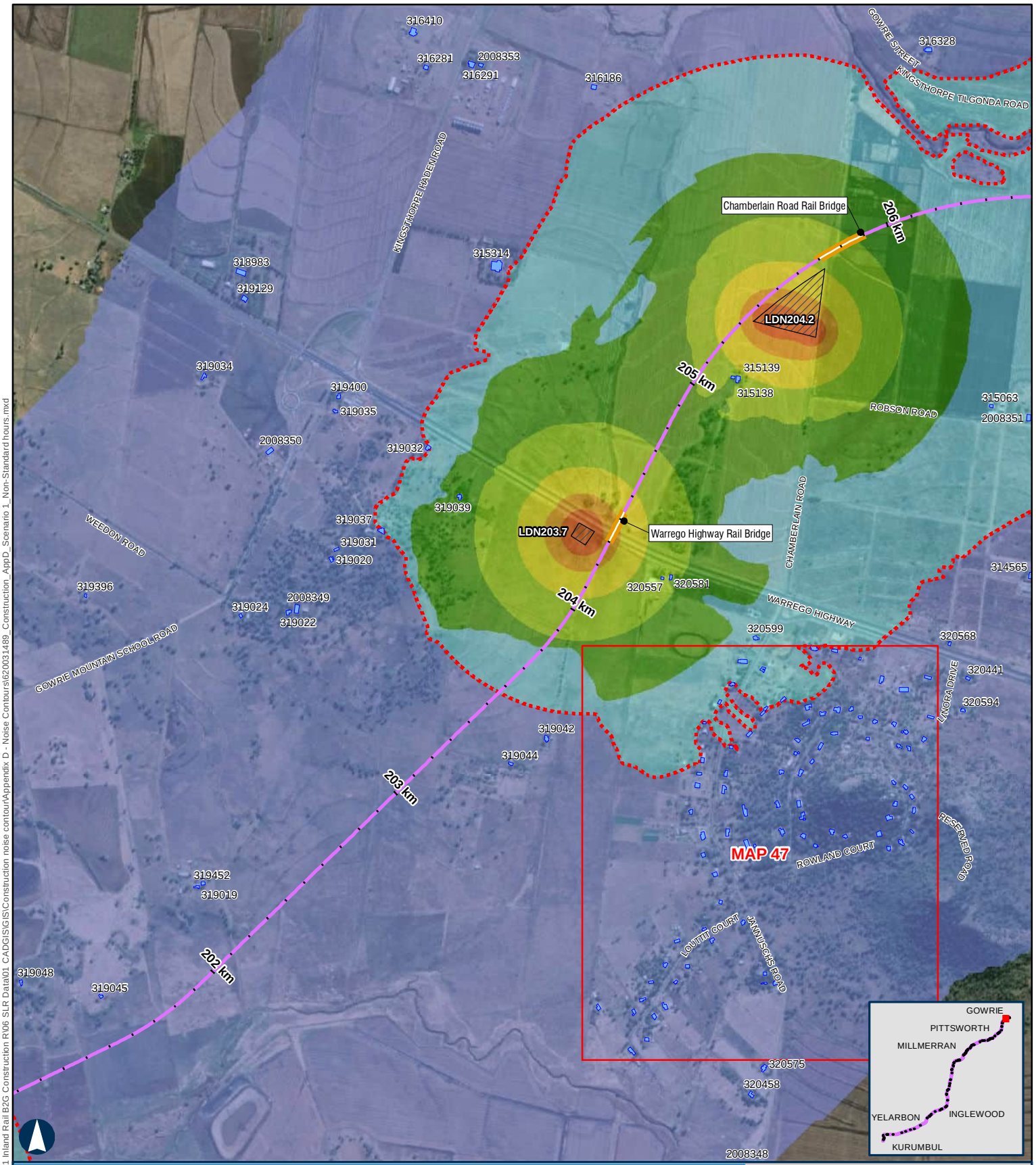

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 46 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

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- Koala Habitat Area

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- Future Developments

Noise Levels
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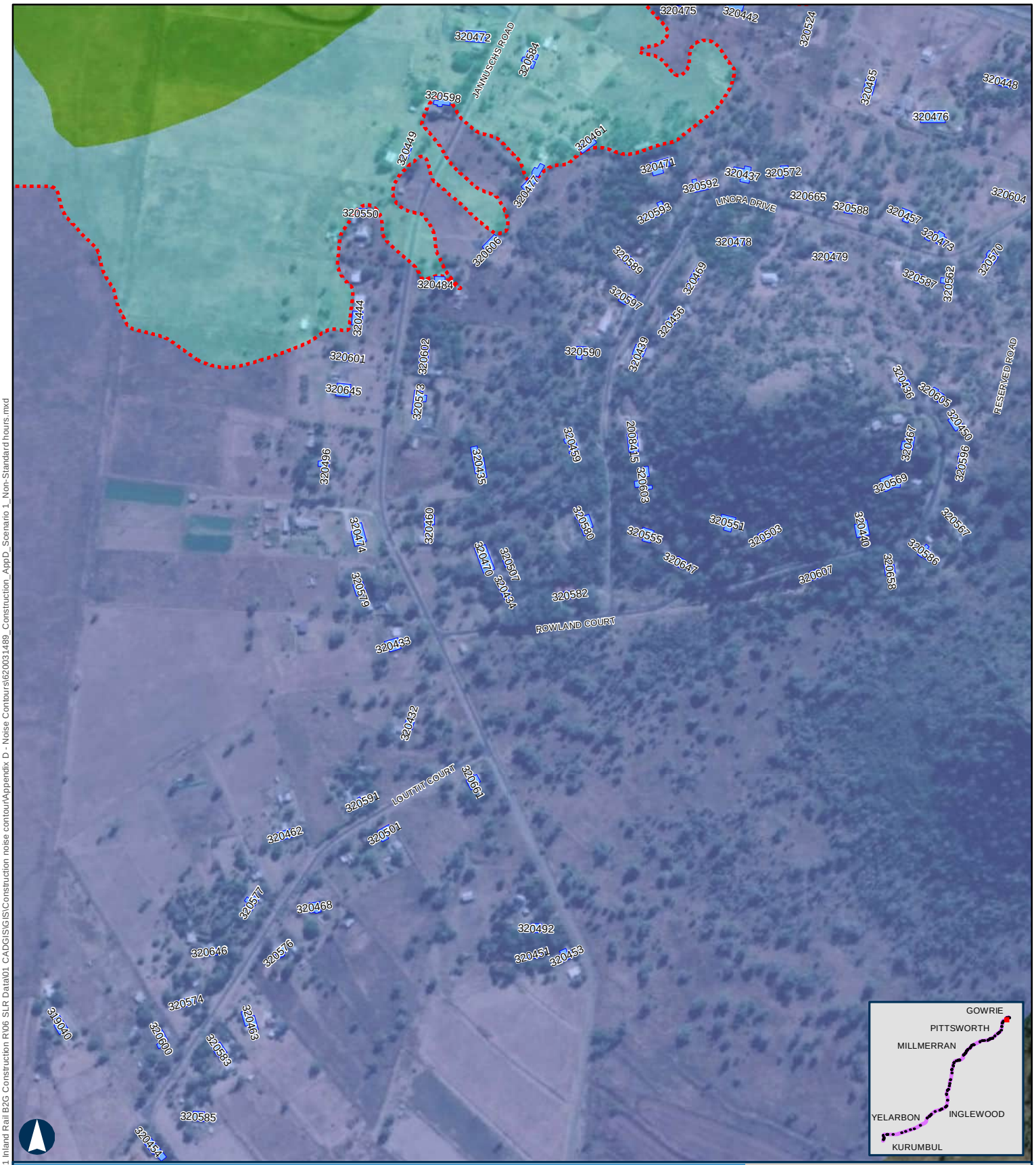

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 47 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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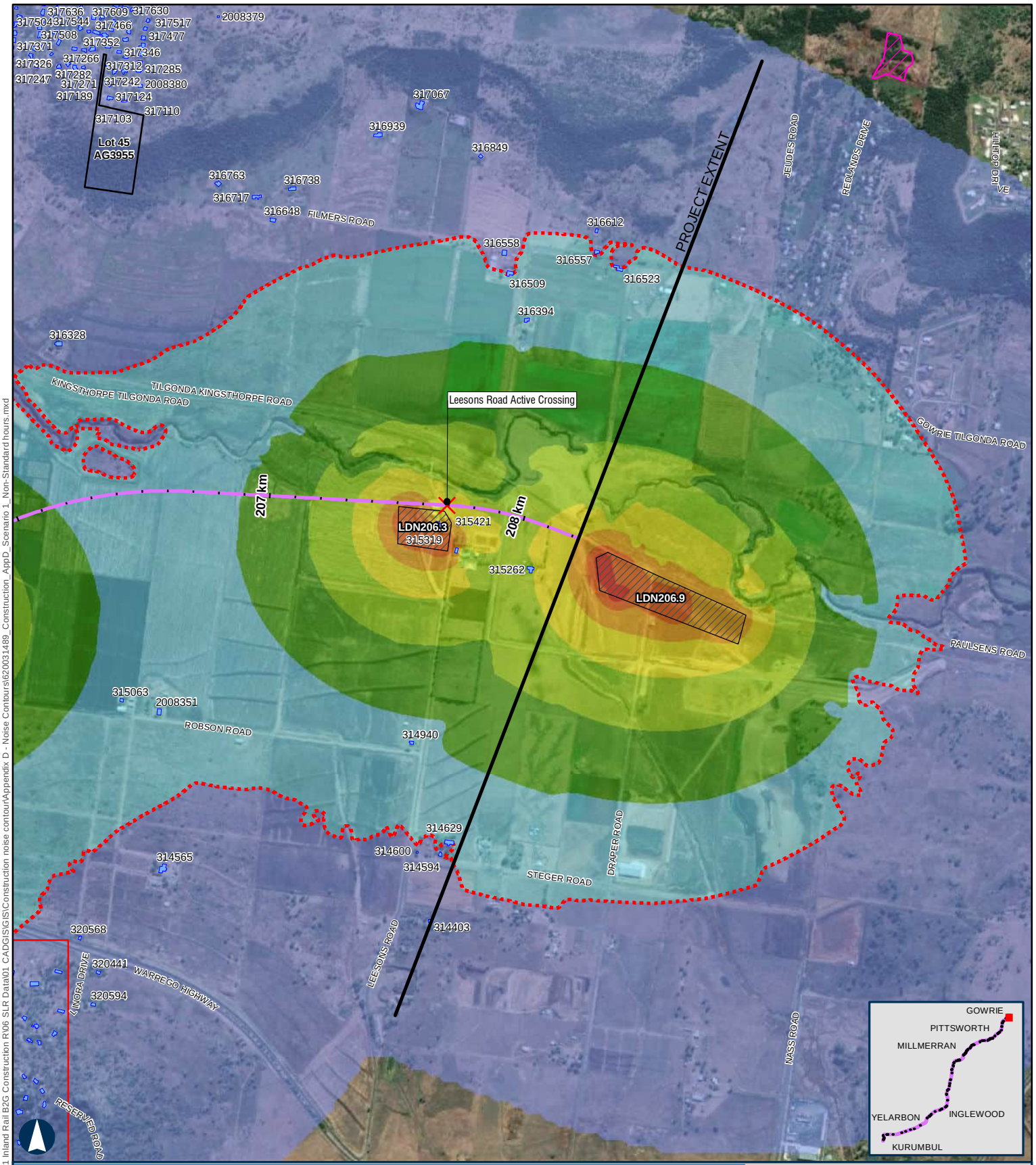

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Non-Standard Hours

APPENDIX D - MAP 48 OF 48

100 m

Coordinate System: GDA 1994 MGA Zone 56

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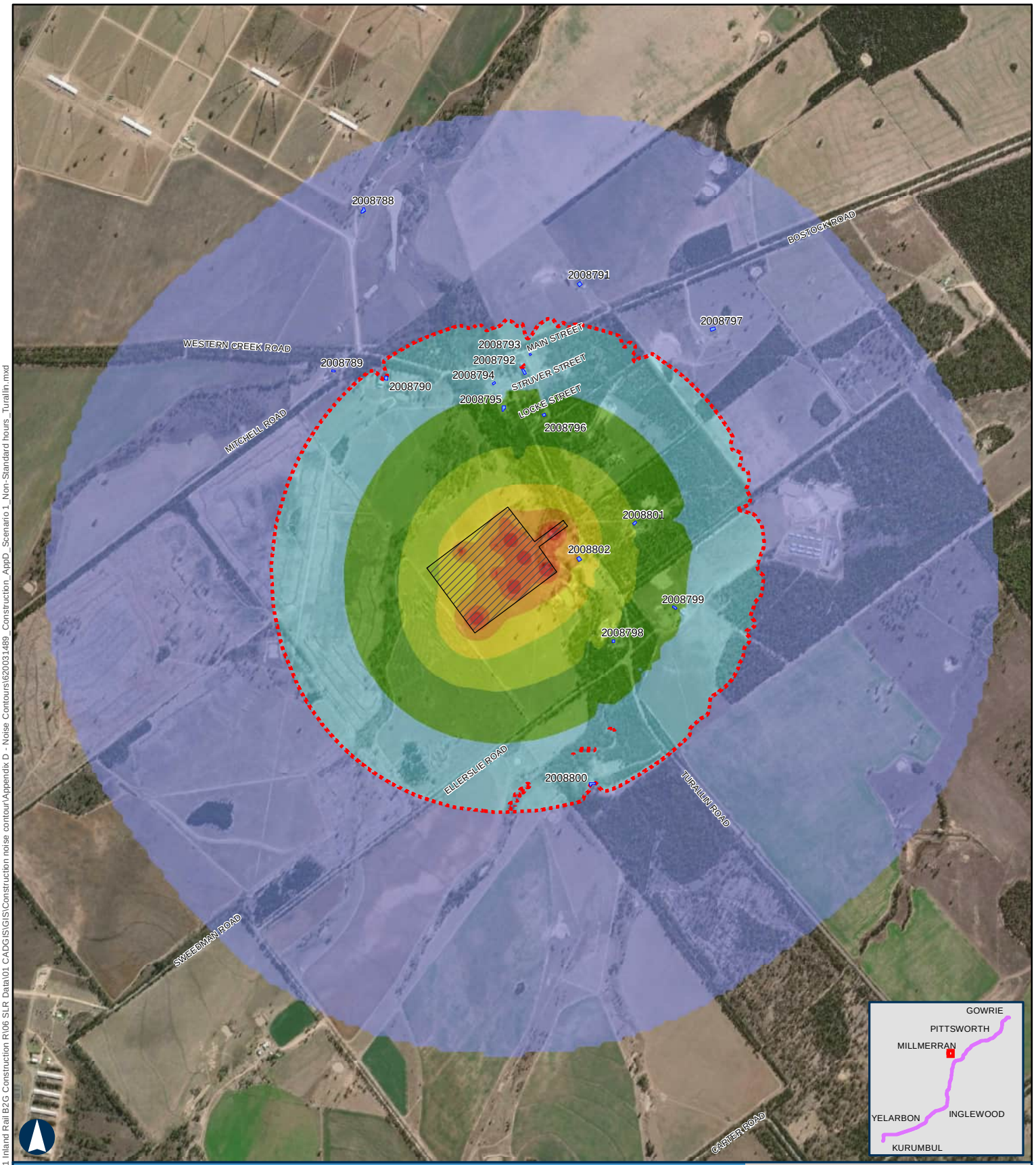

BORDER TO GOWRIE

Scenario 1 - Establishment of Laydown Areas Turallin Non-Standard Hours

APPENDIX D

500 m

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Author: JG

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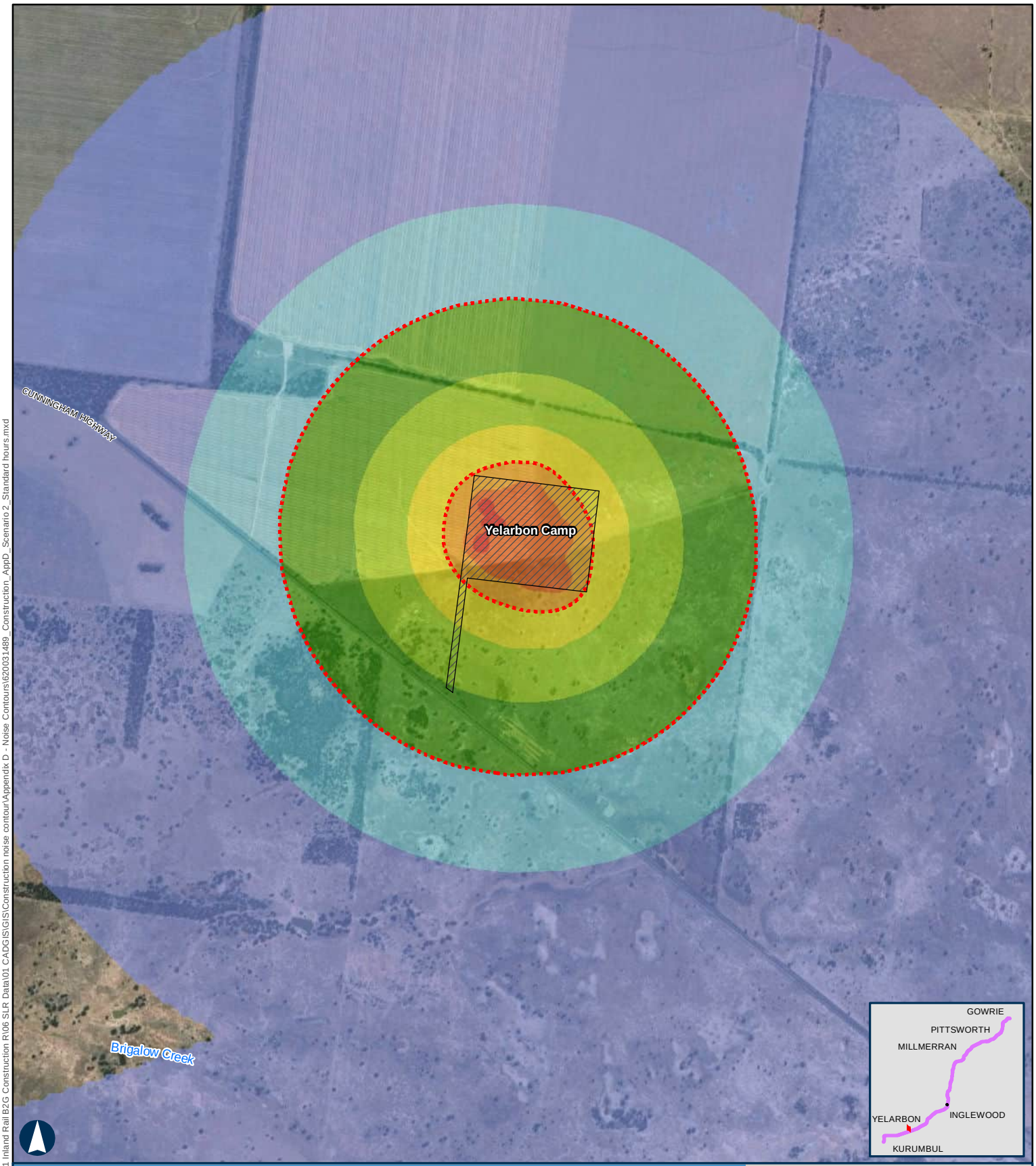

BORDER TO GOWRIE

Scenario 2 - Establishment of Camps Standard Hours

APPENDIX D - MAP 1 OF 2

100 m

Coordinate System: GDA 1994 MGA Zone 56

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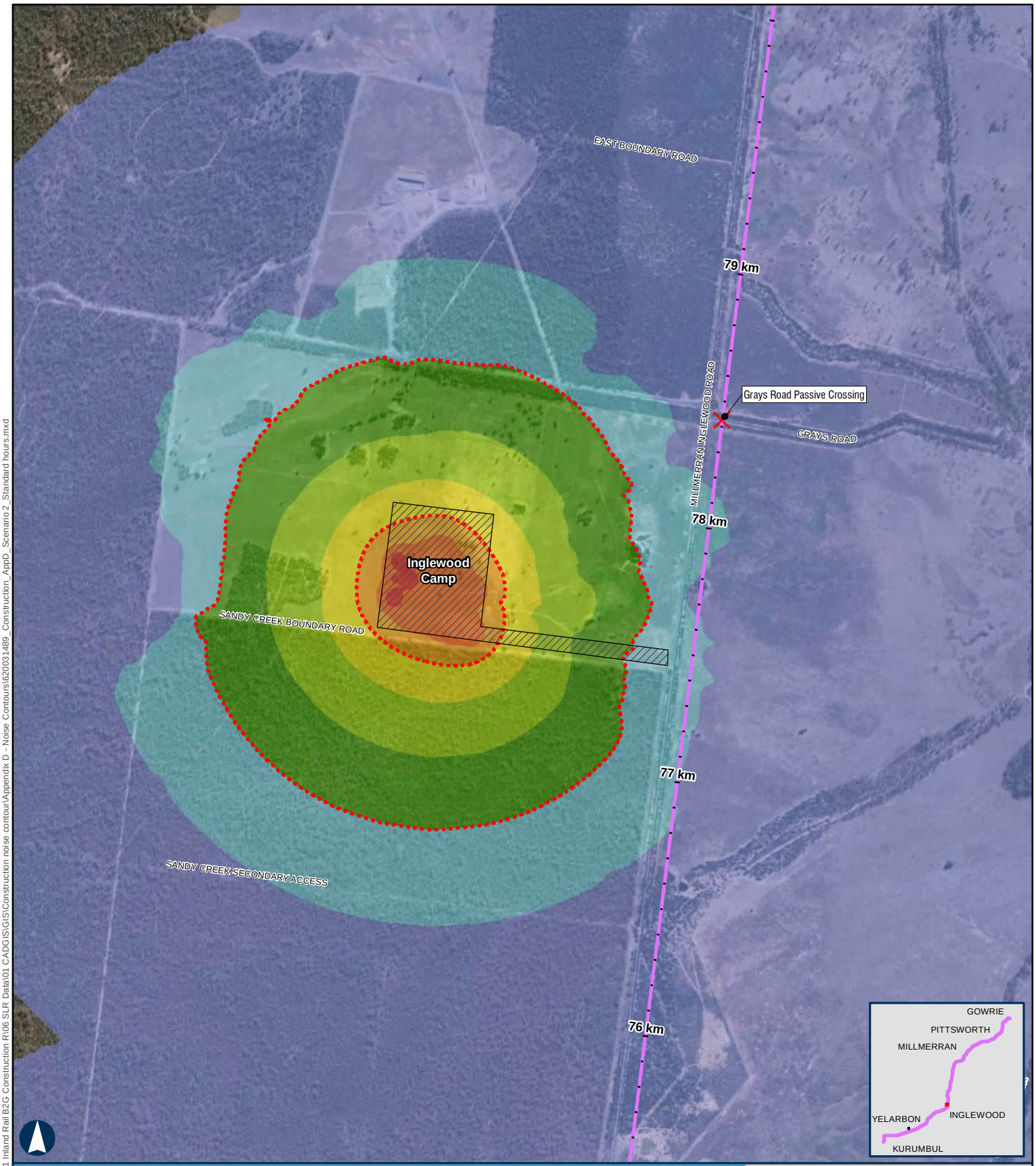

BORDER TO GOWRIE

Scenario 2 - Establishment of Camps Standard Hours

APPENDIX D - MAP 2 OF 2

100 m

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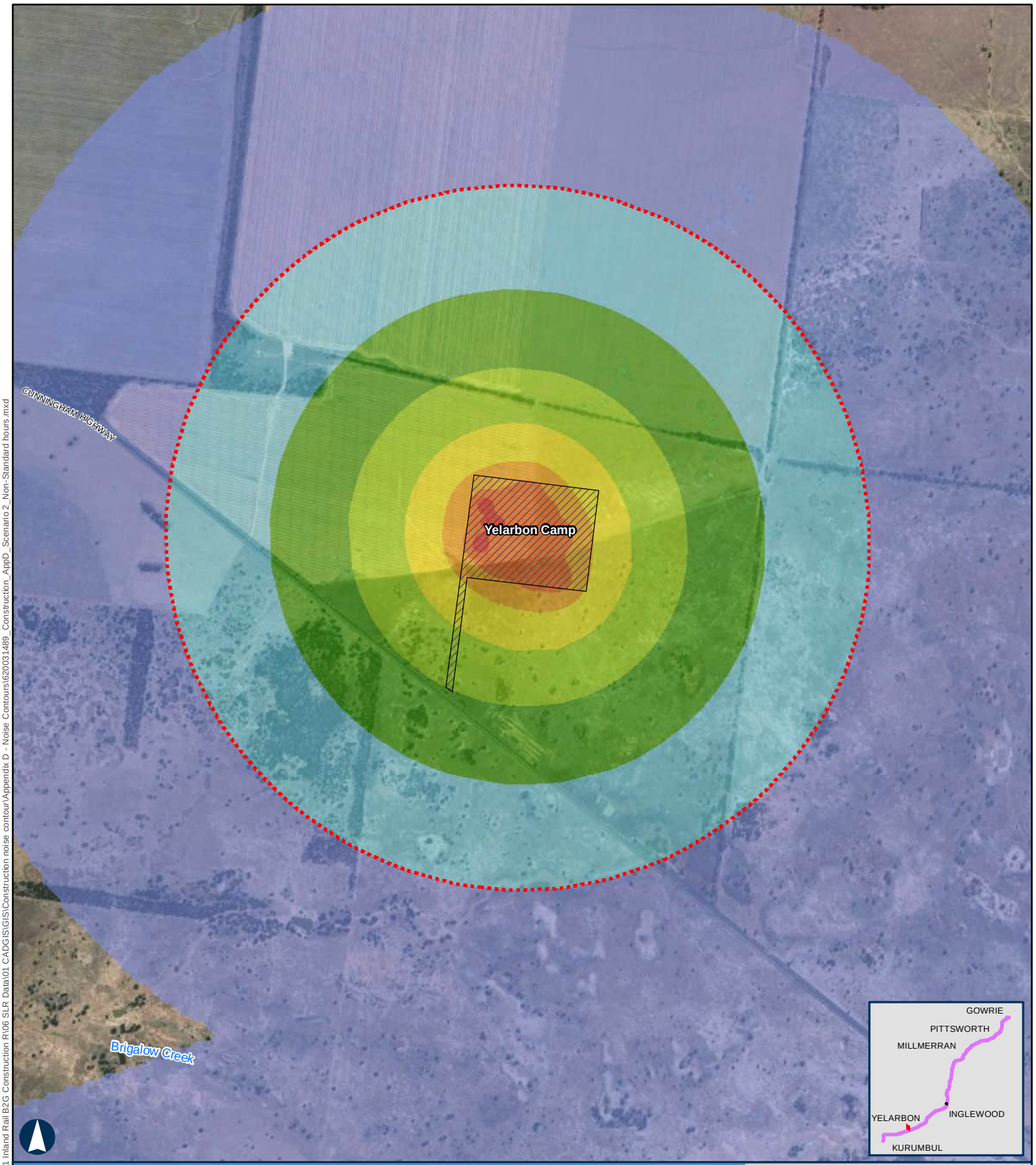

BORDER TO GOWRIE

Scenario 2 - Establishment of Camps Non-Standard Hours

APPENDIX D - MAP 1 OF 2

100 m

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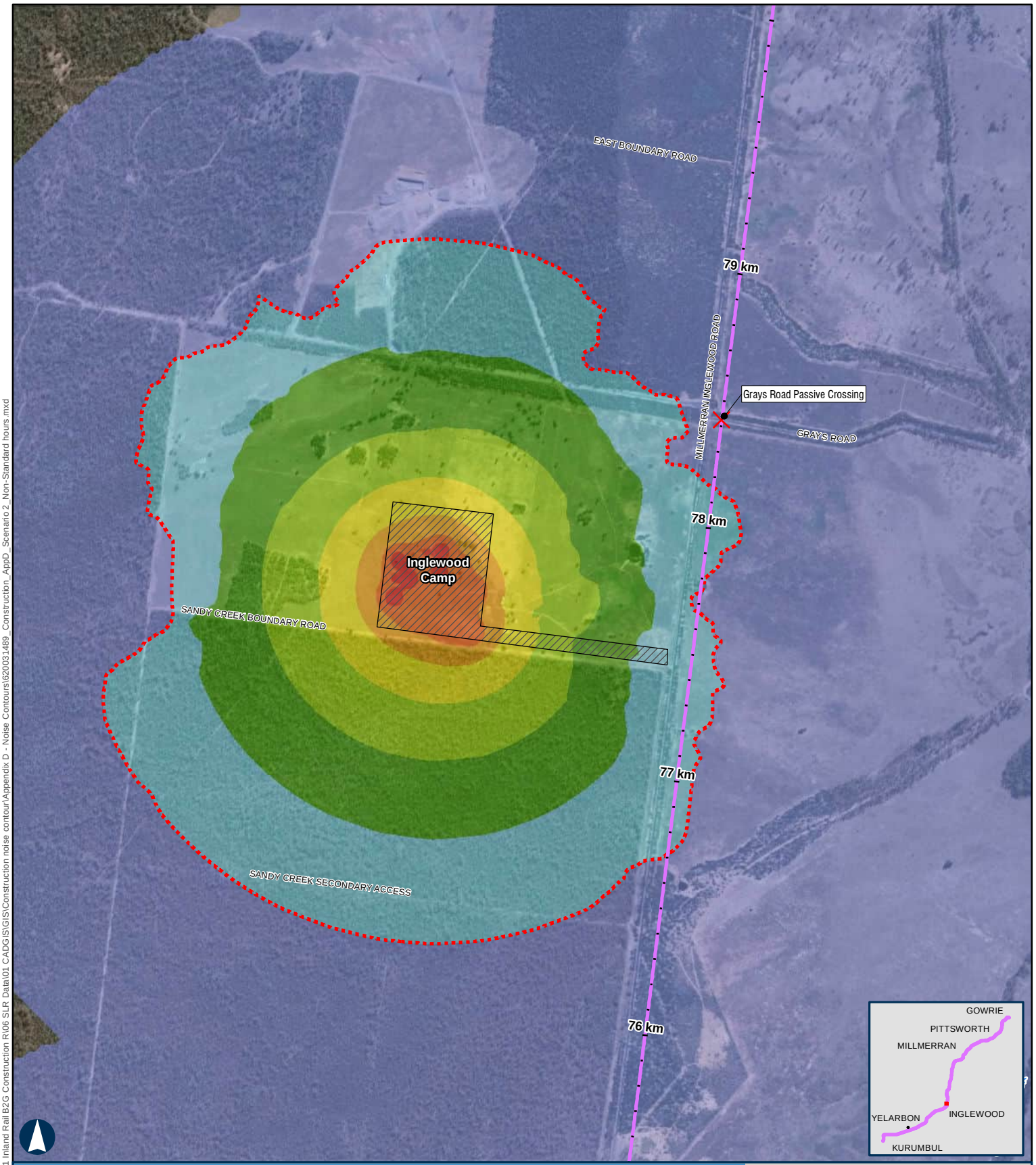

BORDER TO GOWRIE

Scenario 2 - Establishment of Camps Non-Standard Hours

APPENDIX D - MAP 2 OF 2

100 m

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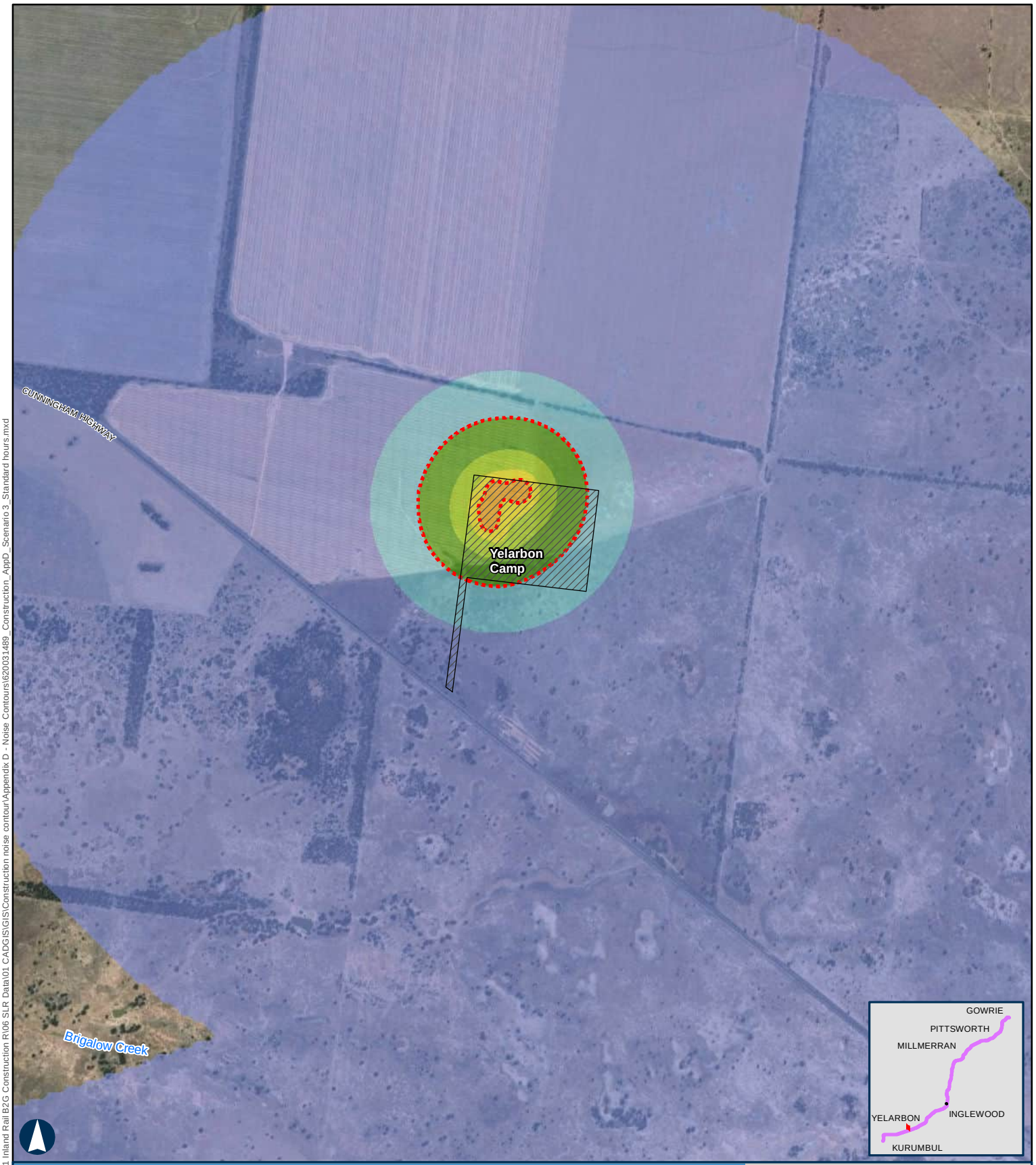

BORDER TO GOWRIE

Scenario 3 - Operation of Camps Standard Hours

APPENDIX D - MAP 1 OF 2

100 m

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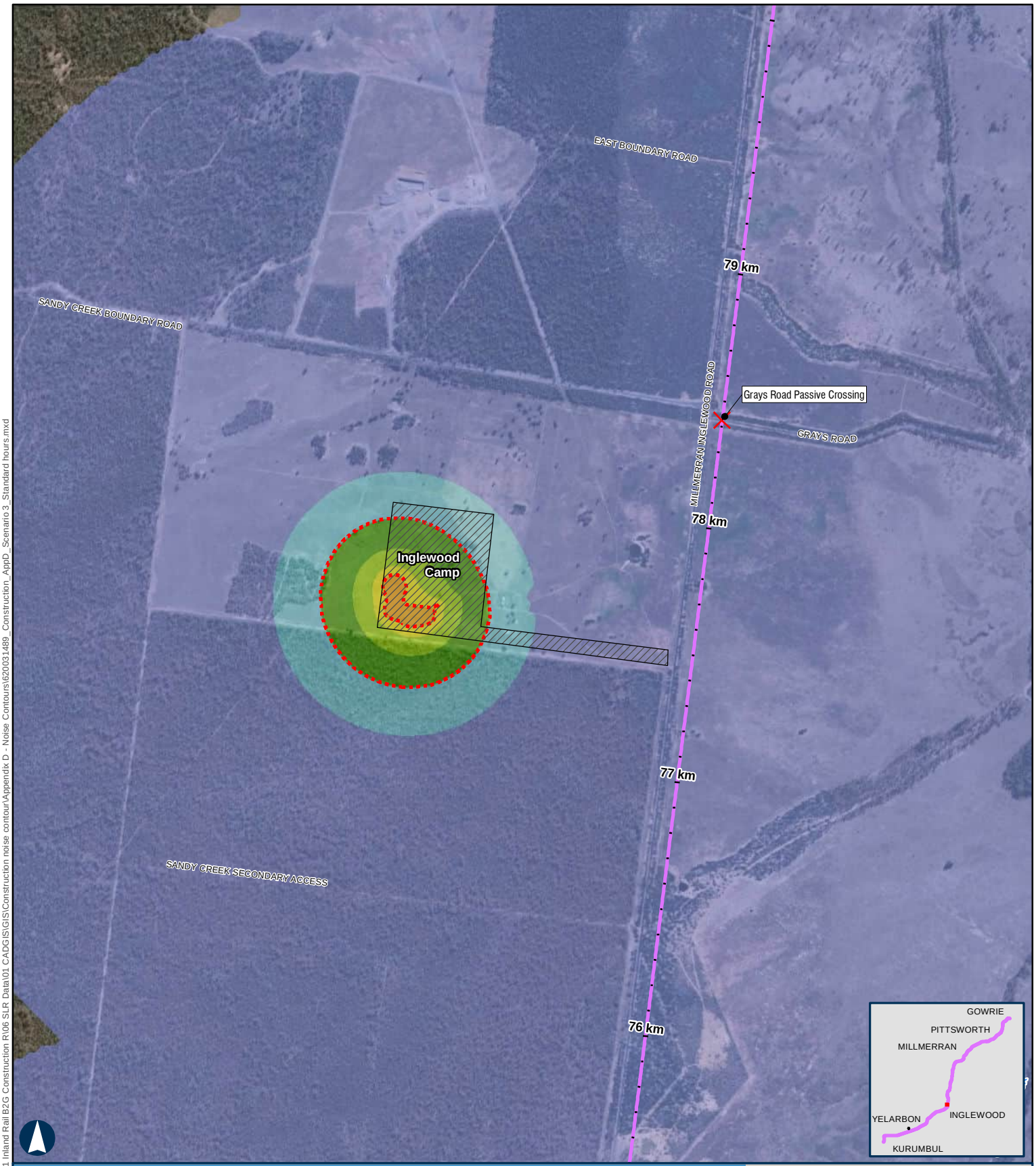

BORDER TO GOWRIE

Scenario 3 - Operation of Camps Standard Hours

APPENDIX D - MAP 2 OF 2

100 m

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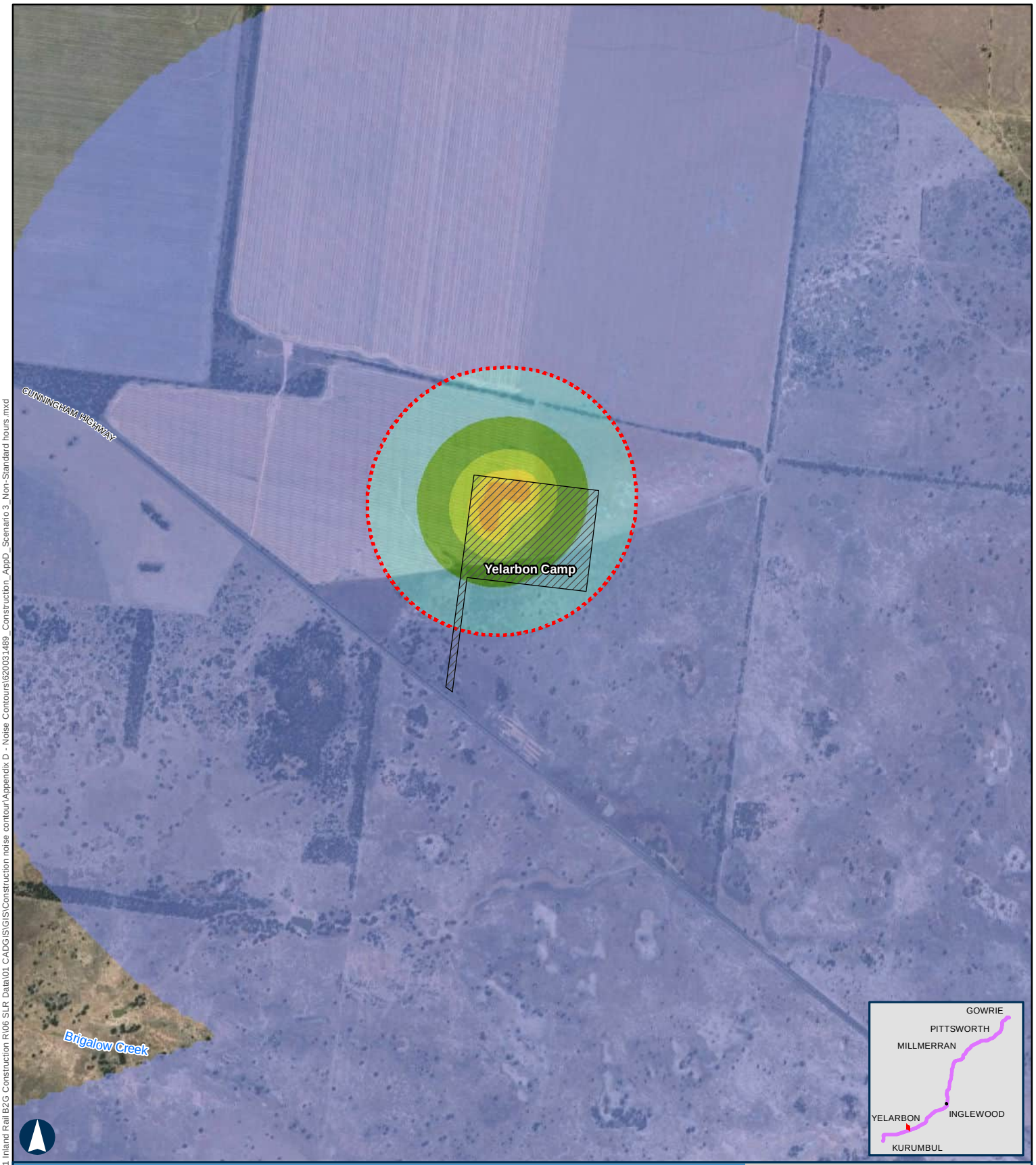

BORDER TO GOWRIE

Scenario 3 - Operation of Camps Non-Standard Hours

APPENDIX D - MAP 1 OF 2

100 m

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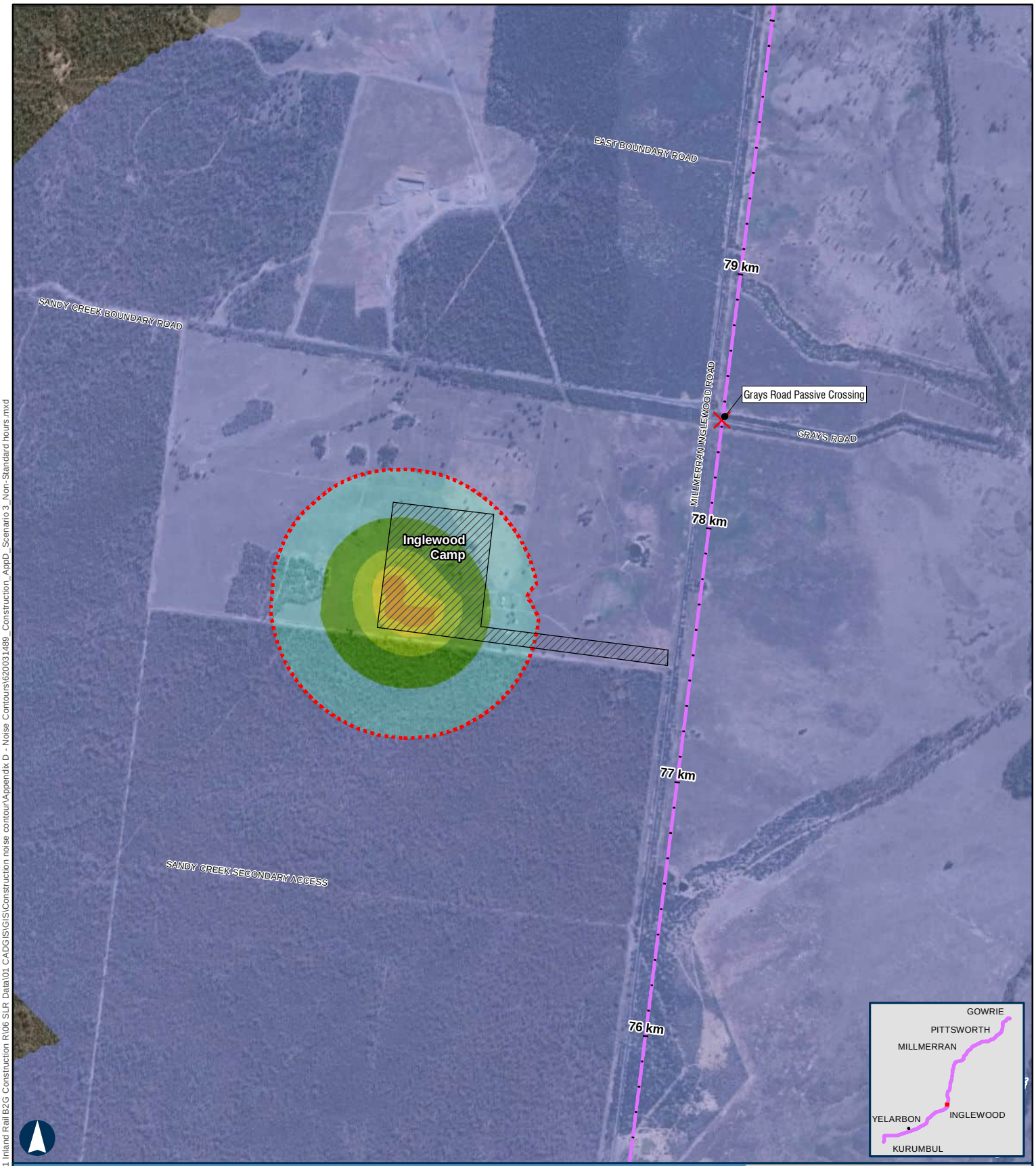

BORDER TO GOWRIE

Scenario 3 - Operation of Camps Non-Standard Hours

APPENDIX D - MAP 2 OF 2

100 m

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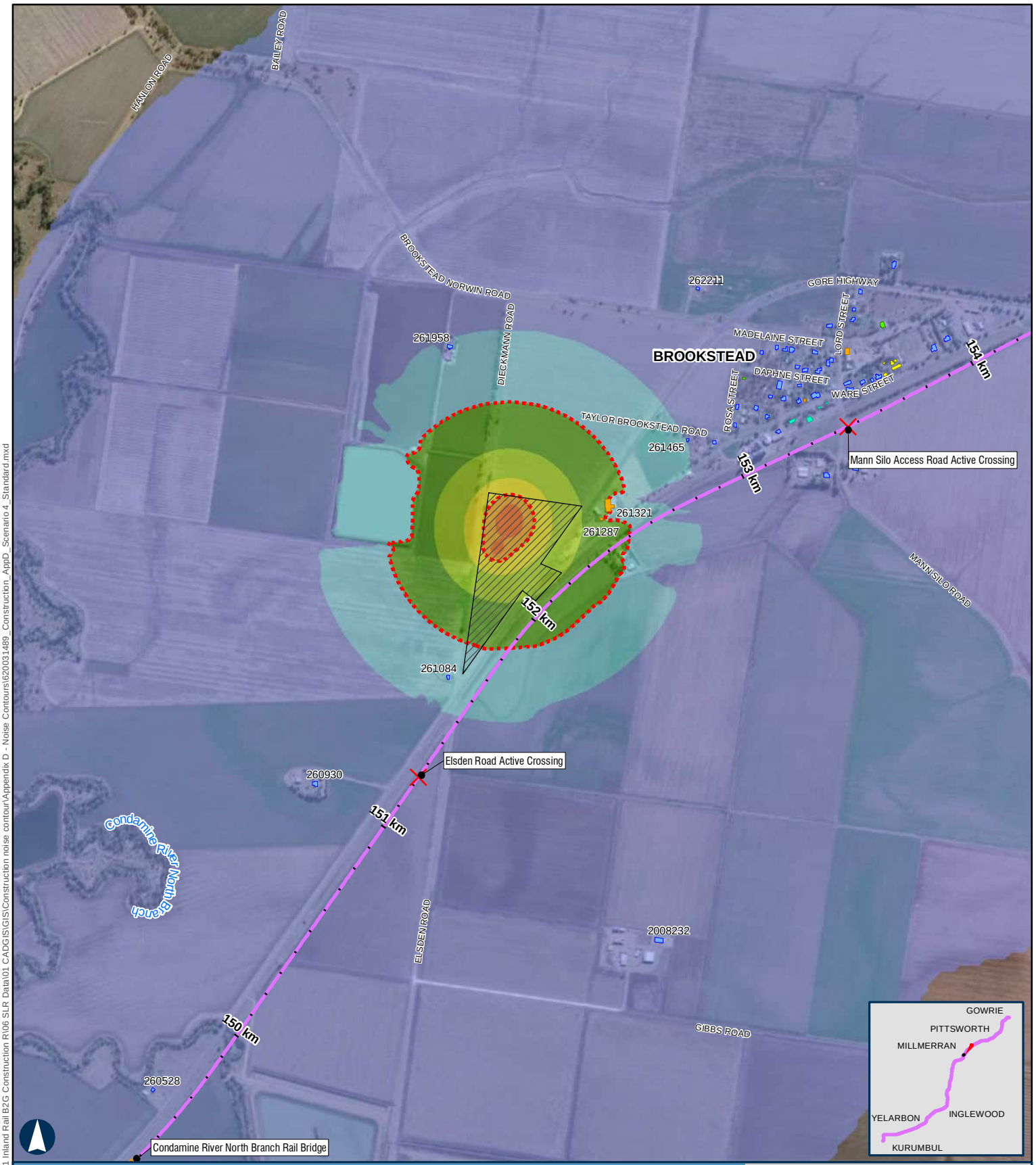

BORDER TO GOWRIE

Scenario 4 - Batch Plant Operation Standard Hours

APPENDIX D - MAP 1 OF 2

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 08-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 4 - Batch Plant Operation Standard Hours

APPENDIX D - MAP 2 OF 2

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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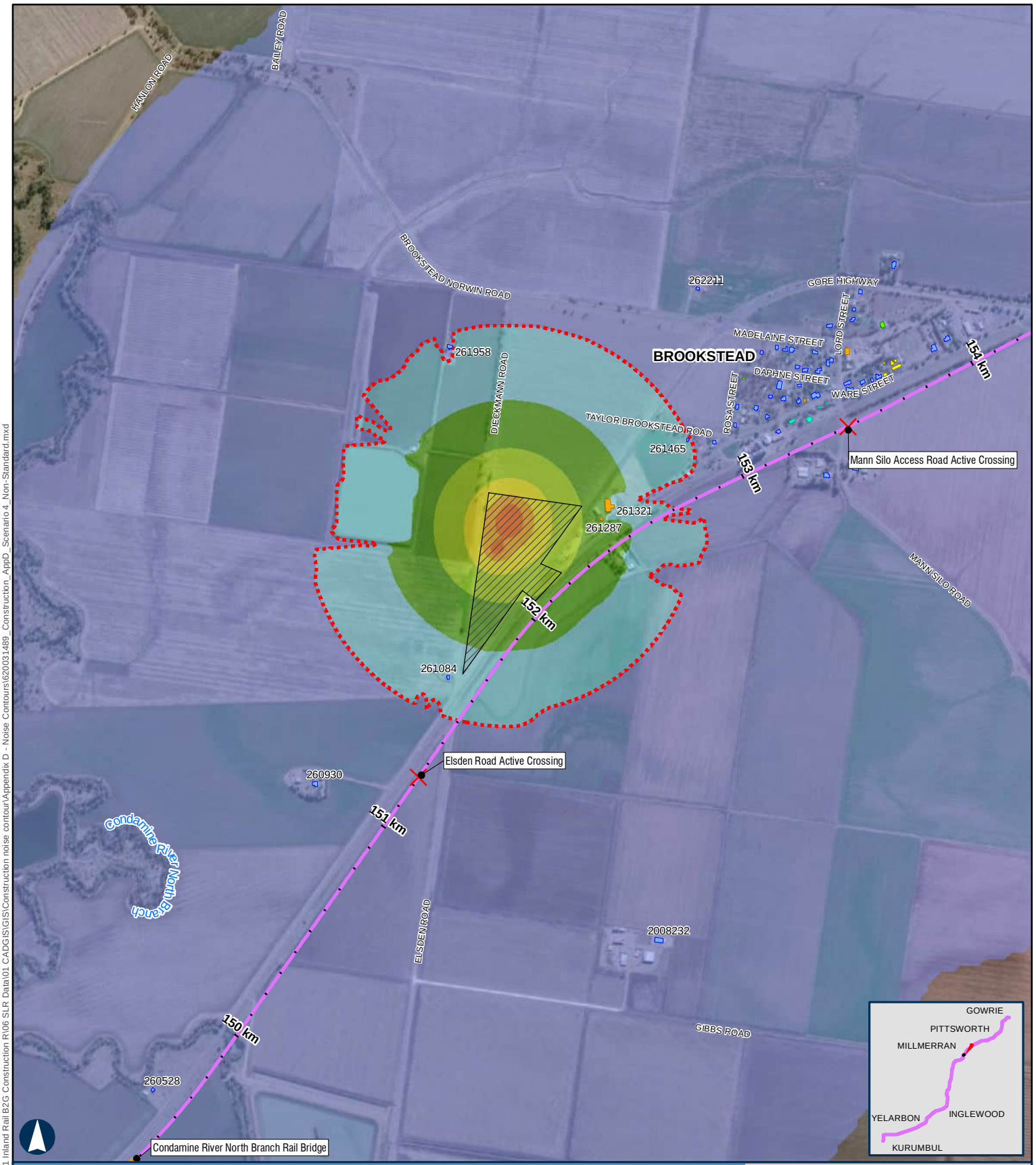

BORDER TO GOWRIE

Scenario 4 - Batch Plant Operation Non-Standard Hours

APPENDIX D - MAP 1 OF 2

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 4 - Batch Plant Operation Non-Standard Hours

APPENDIX D - MAP 2 OF 2

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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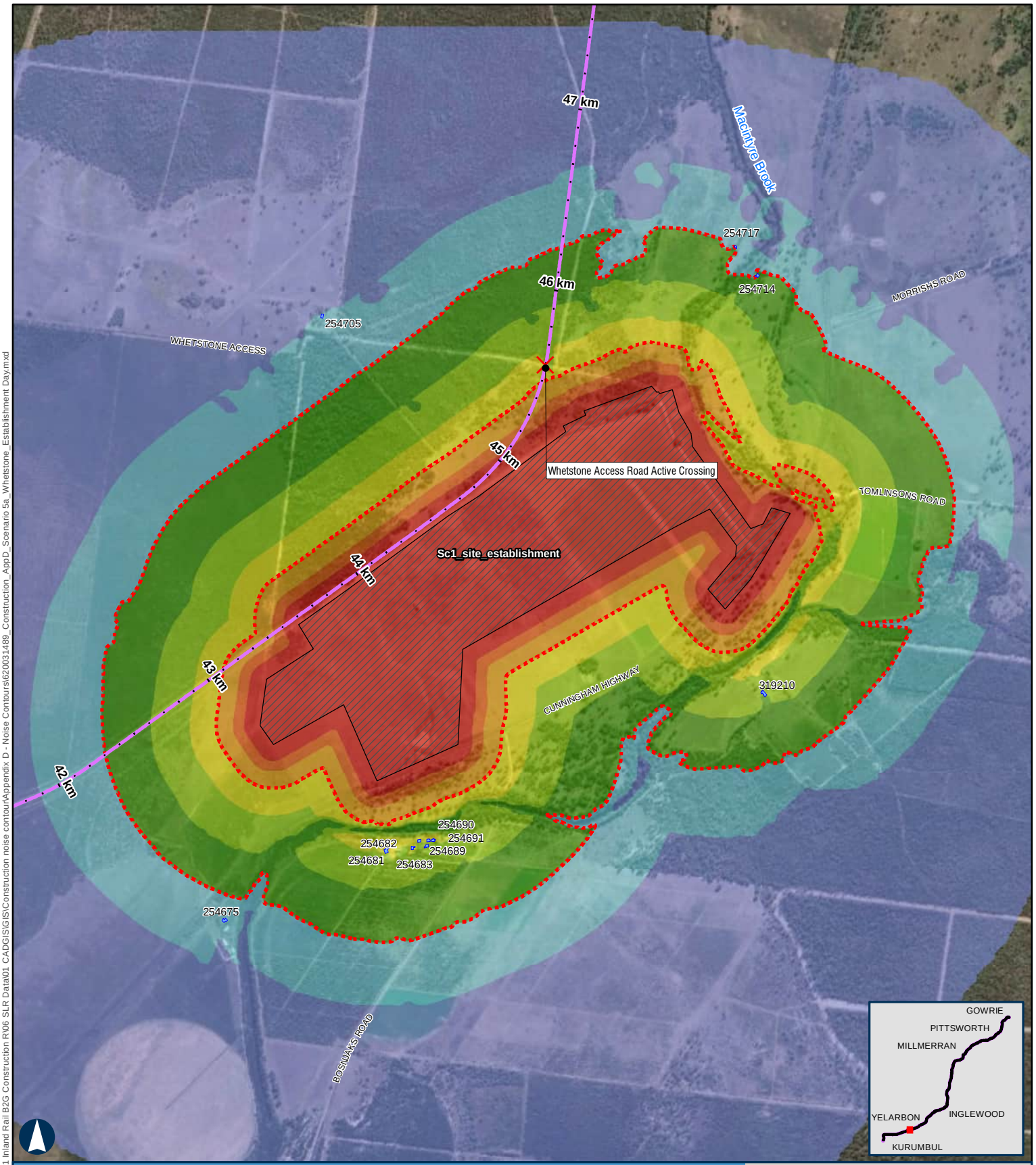

BORDER TO GOWRIE

Scenario 5a - Whetstone MDC Site Establishment Standard Hours

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:28,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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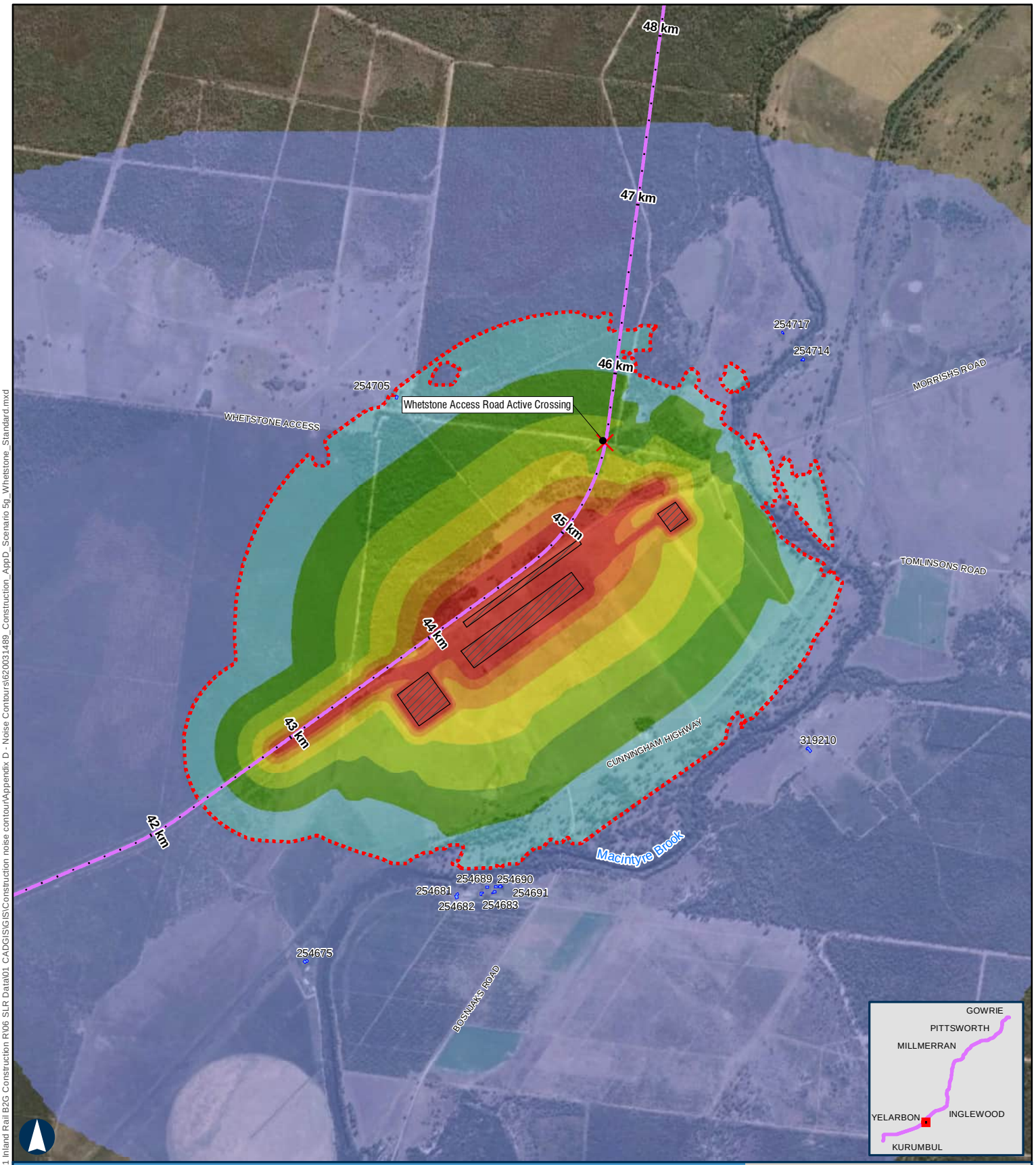

BORDER TO GOWRIE

Scenario 5g - Whetstone MDC Combined Activity Noise with Laydown Area - Standard Hours

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:30,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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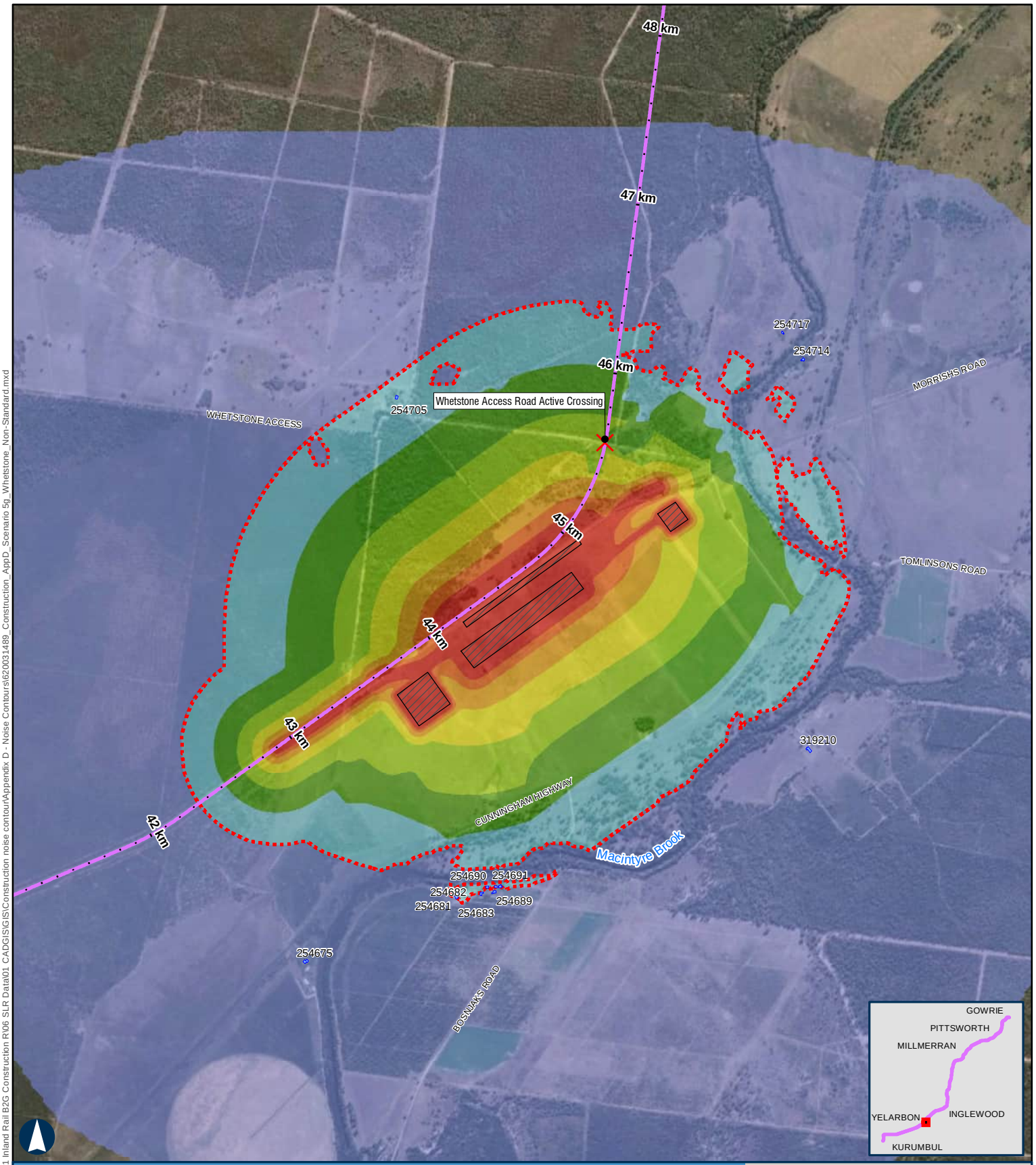

BORDER TO GOWRIE

Scenario 5g - Whetstone MDC Combined Activity Noise with Laydown Area - Non-Standard Hours

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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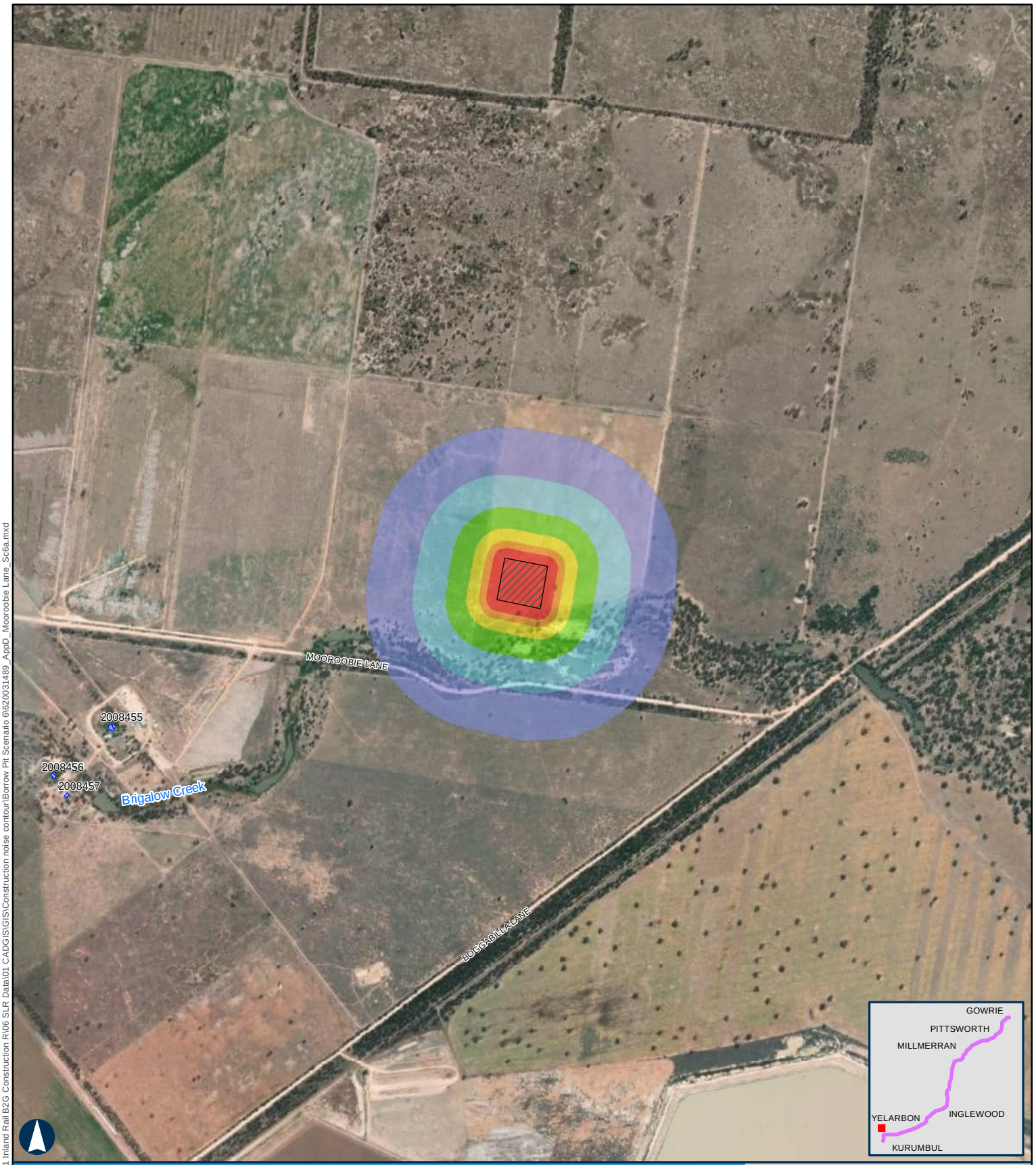

BORDER TO GOWRIE

Scenario 6a - Mooroobie Lane
Borrow Pit - Site Establishment - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 18-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type	Noise Levels (dBA)
Residential	<= 45
Community	45 - 50
Educational	50 - 55
Commercial	55 - 60
Parkland	60 - 65
Future Developments	65 - 70
	70 - 75

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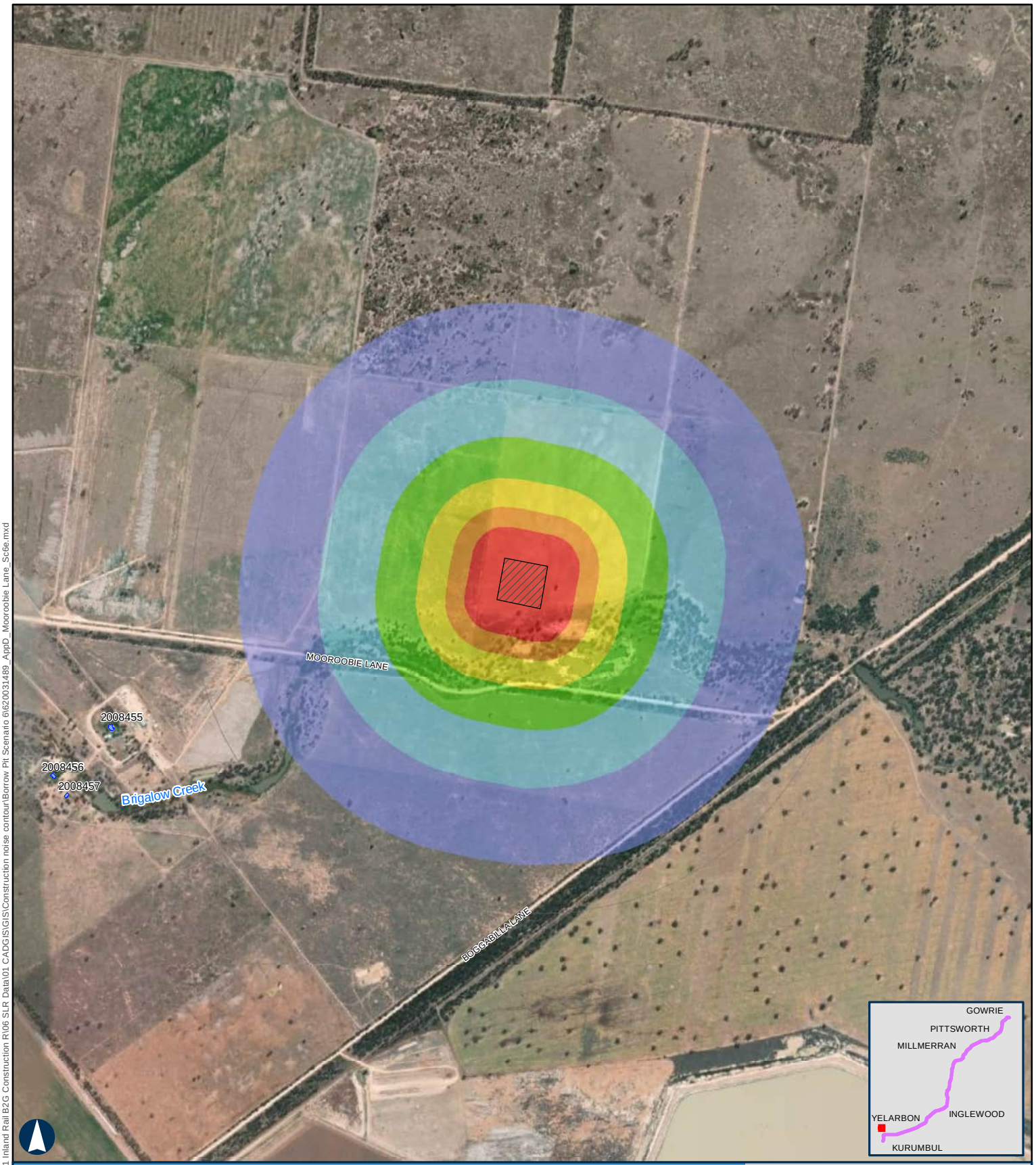

BORDER TO GOWRIE

Scenario 6e - Mooroobie Lane
Borrow Pit - Combined Operations - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 18-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)
- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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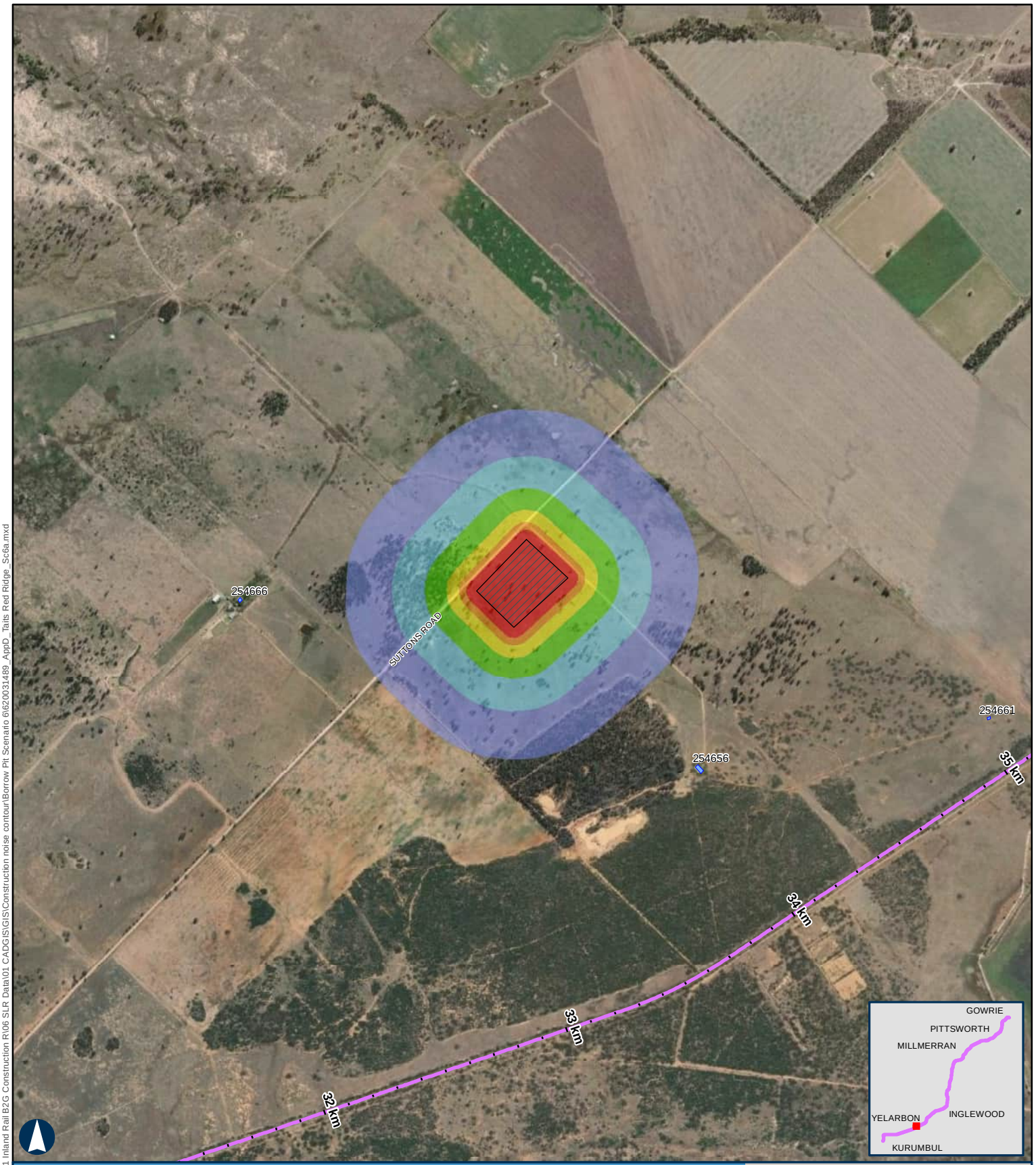

BORDER TO GOWRIE

Scenario 6a - Taits Red Ridge
Borrow Pit - Site Establishment - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 18-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)
- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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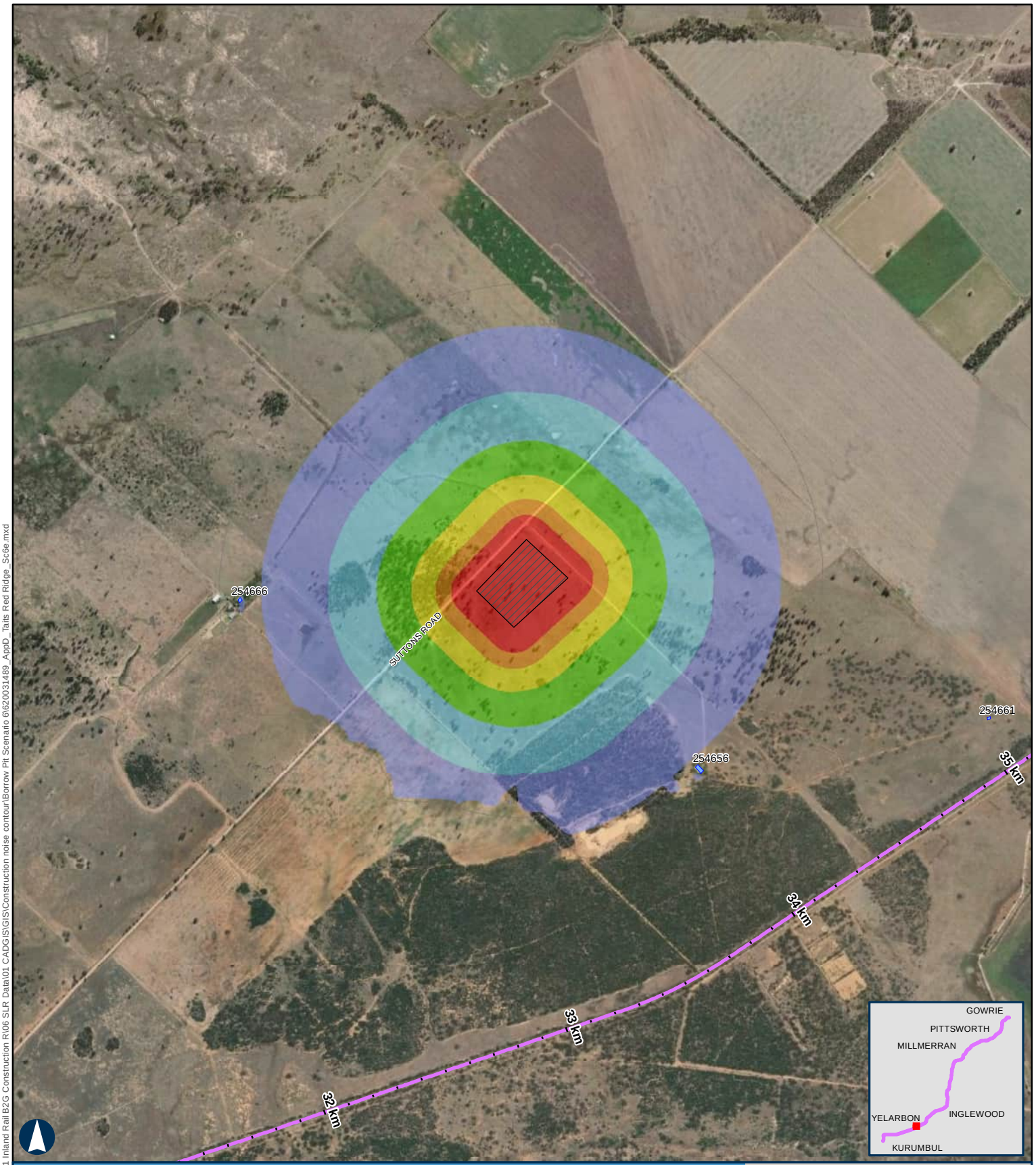

BORDER TO GOWRIE

Scenario 6e - Taits Red Ridge
Borrow Pit - Combined Operations - Daytime

APPENDIX D

500 m

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- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)
- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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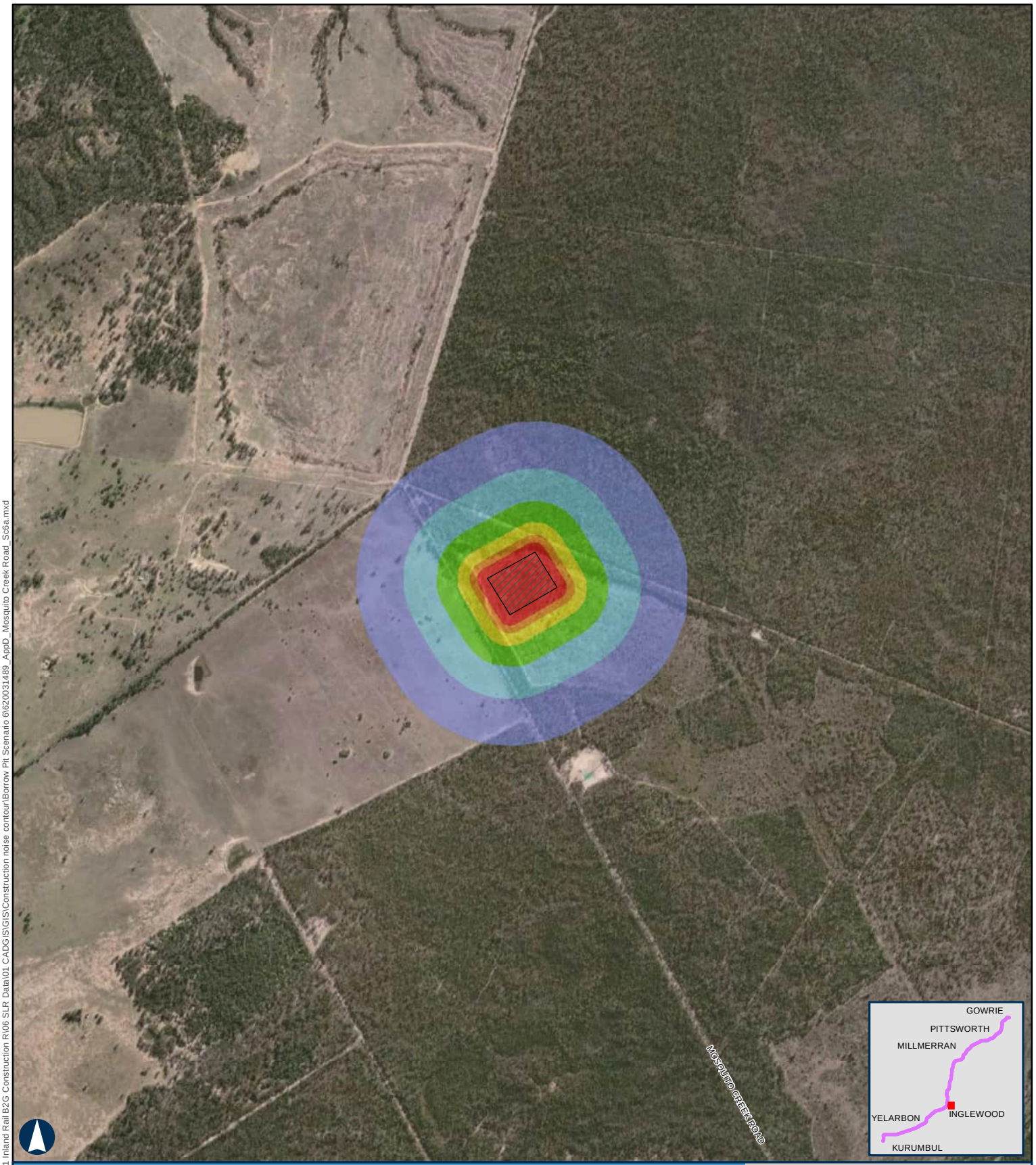

BORDER TO GOWRIE

Scenario 6a - Mosquito Creek Road Borrow Pit - Site Establishment - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)
- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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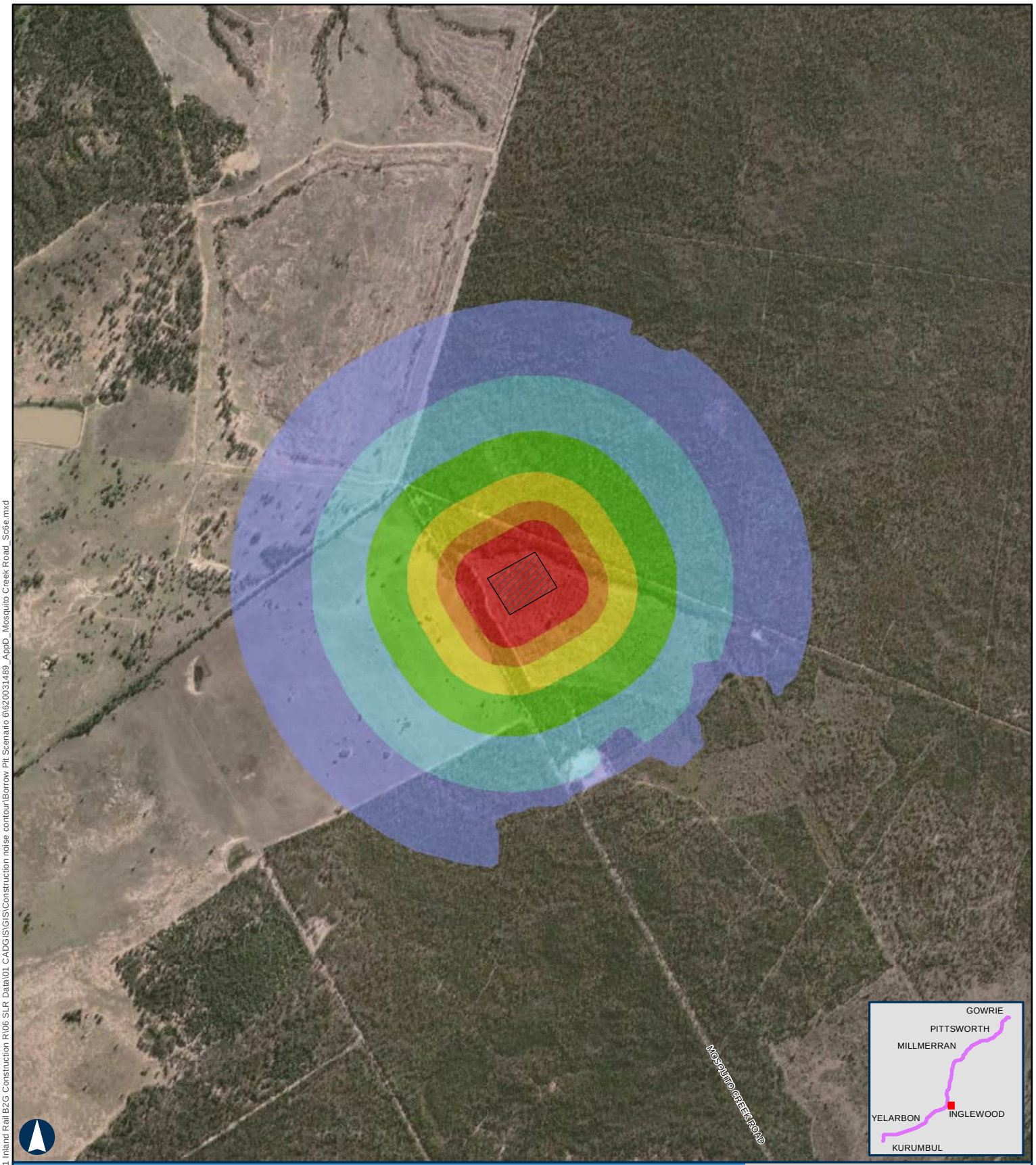

BORDER TO GOWRIE

Scenario 6e - Mosquito Creek Road Borrow Pit - Combined Operations - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)
- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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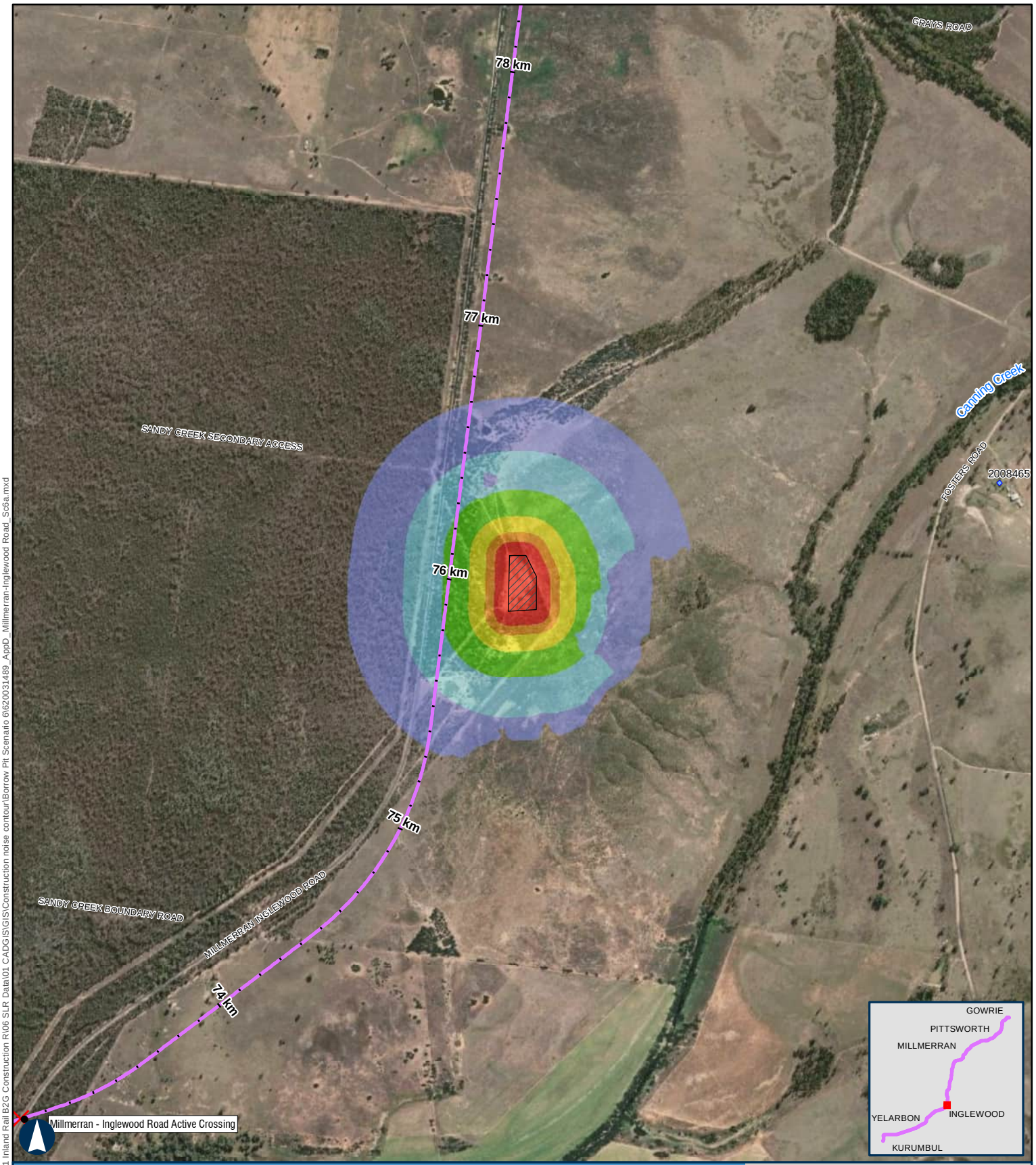

BORDER TO GOWRIE

Scenario 6a - Millmerran-Inglewood Road Borrow Pit - Site Establishment - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 18-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)
- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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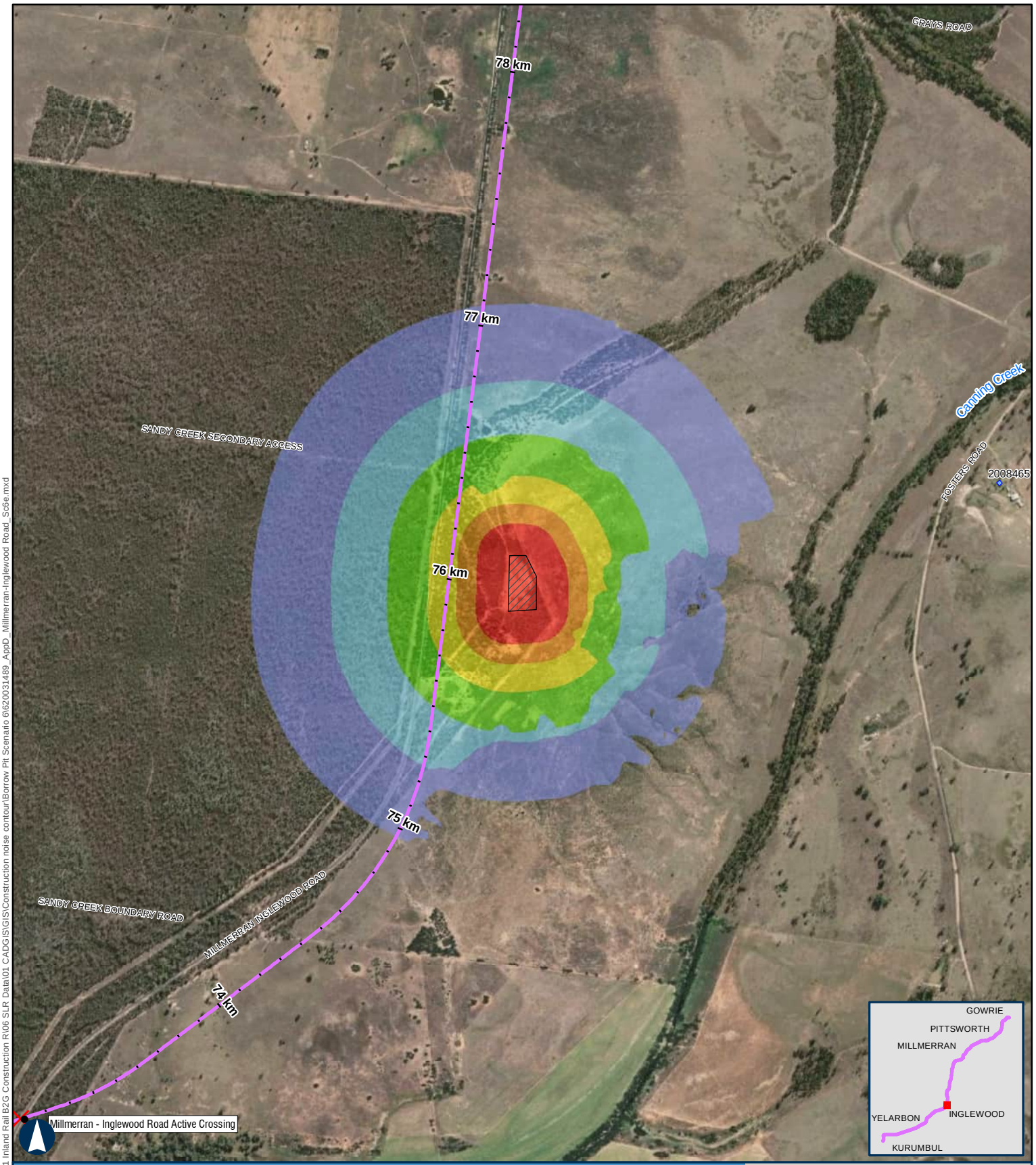
\\au-sir.local\Corporate\Projects-SLR\620-BNE\620-BNE\620.031489.00001 Inland Rail B2G Construction R106 SLR Data\01 CADGIS\GIS\Construction noise contour\Borrow Pit Scenario 6\620031489_AppD_Millmerran-Inglewood Road_Sc6a.mxd



BORDER TO GOWRIE

Scenario 6e - Millmerran-Inglewood Road Borrow Pit - Combined Operations - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 18-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)

- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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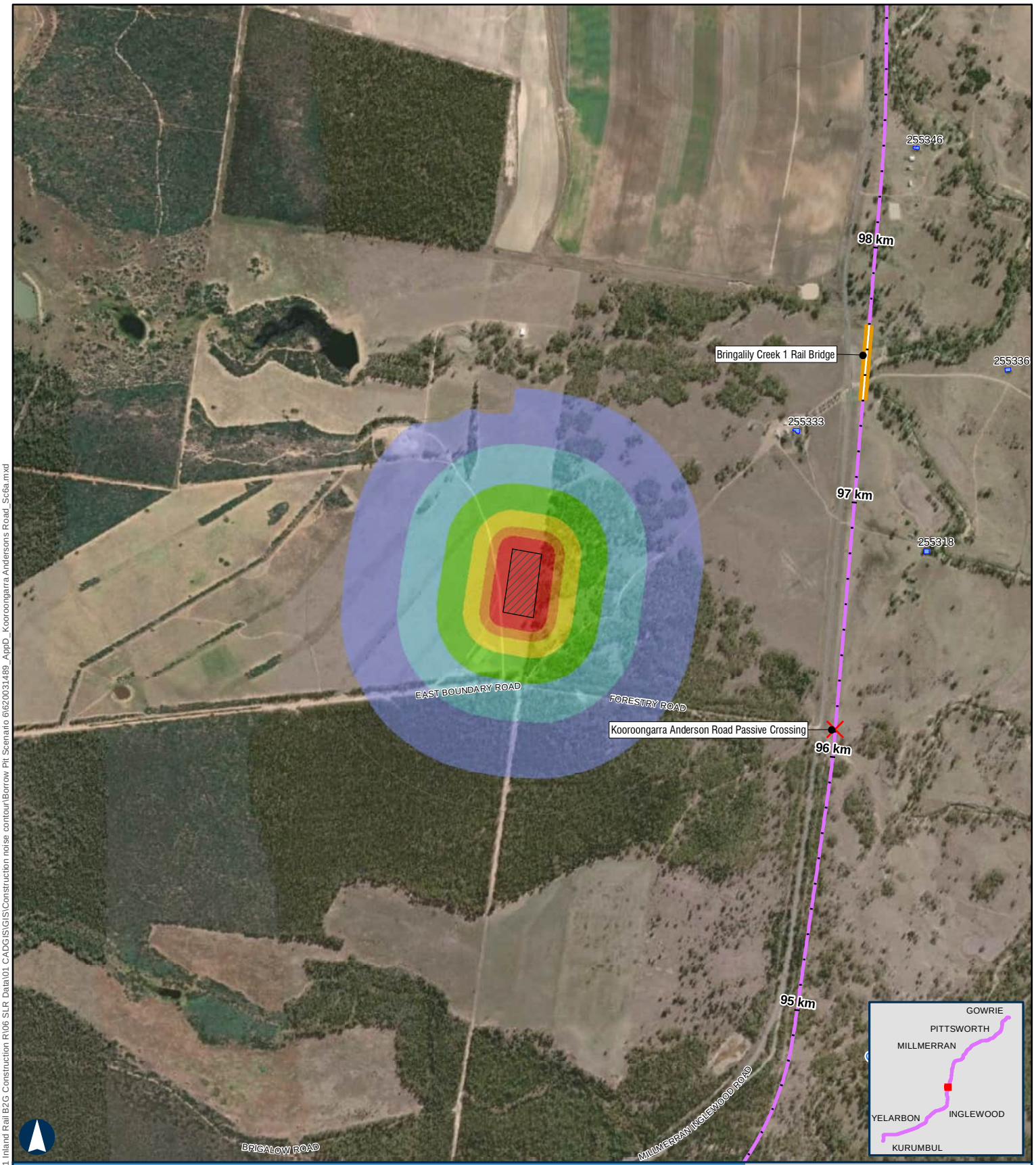

BORDER TO GOWRIE

Scenario 6a - Kooroongarra Andersons Road Borrow Pit - Site Establishment - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)

- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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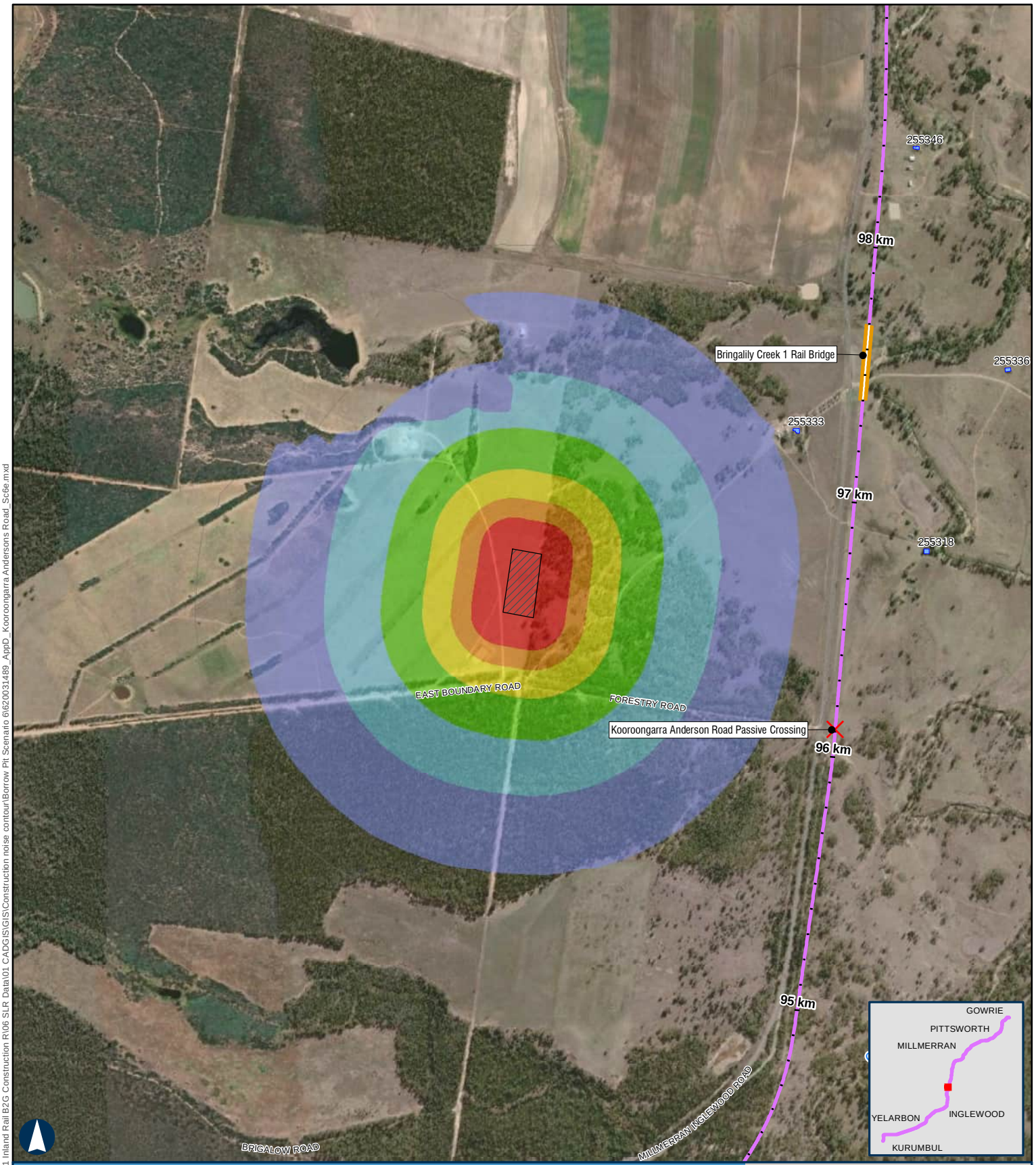

BORDER TO GOWRIE

Scenario 6e - Kooroongarra Andersons Road Borrow Pit - Combined Operations - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)

- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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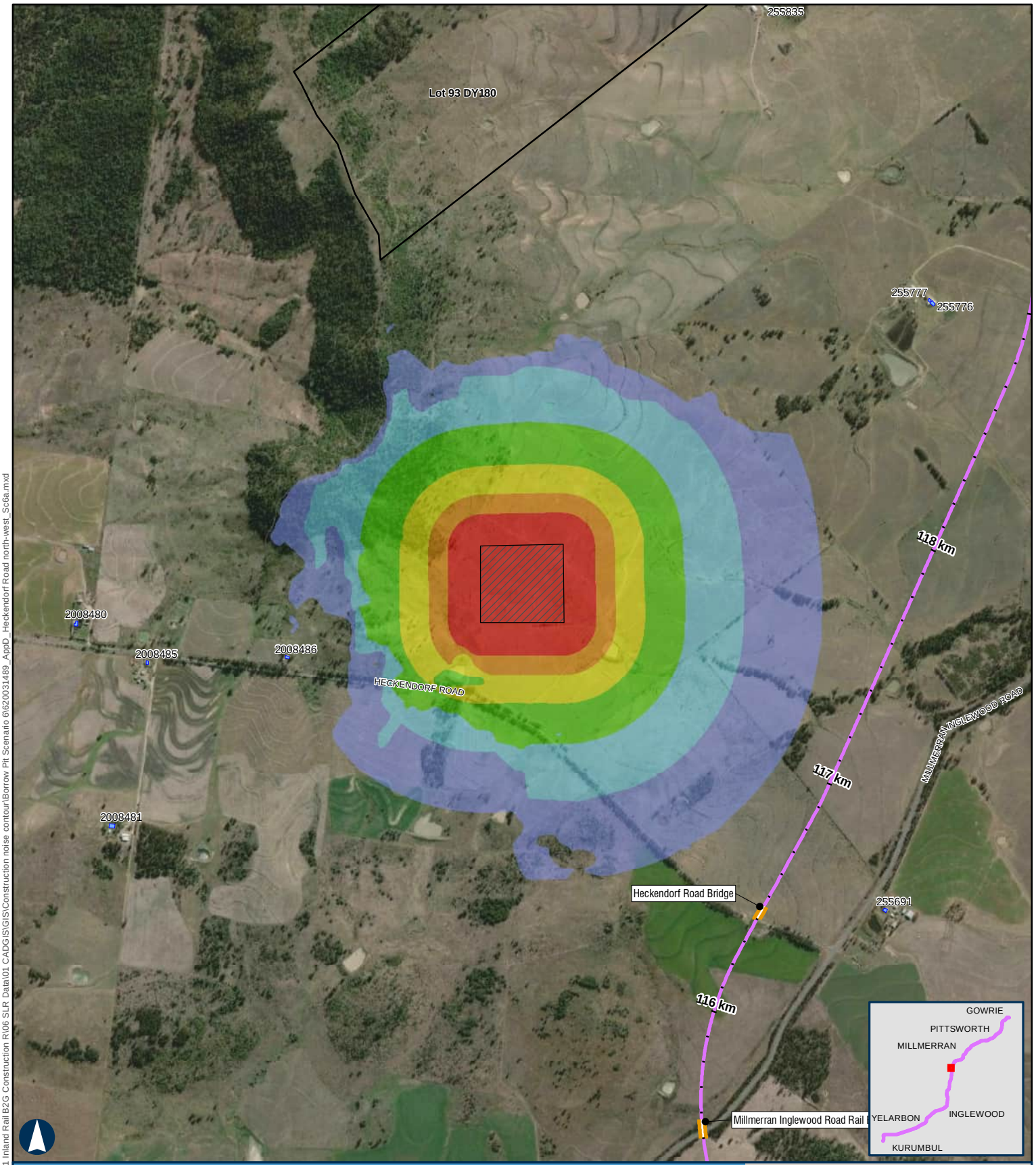

BORDER TO GOWRIE

Scenario 6e - Heckendorf Road (North-West) Borrow Pit - Combined Operations - Day

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)
- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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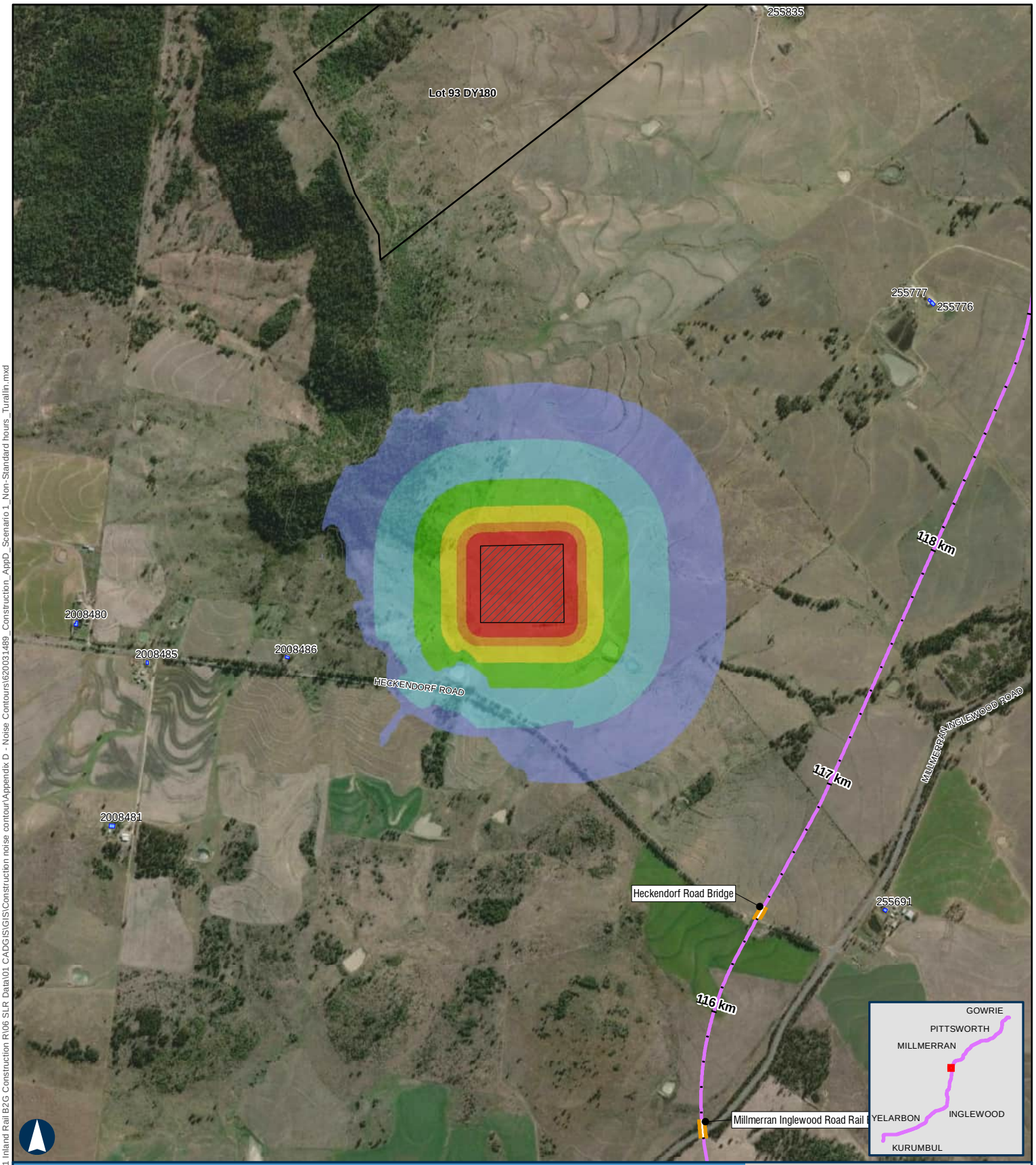

BORDER TO GOWRIE

Scenario 6a - Heckendorf Road (North-West) Borrow Pit - Site Establishment - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)
- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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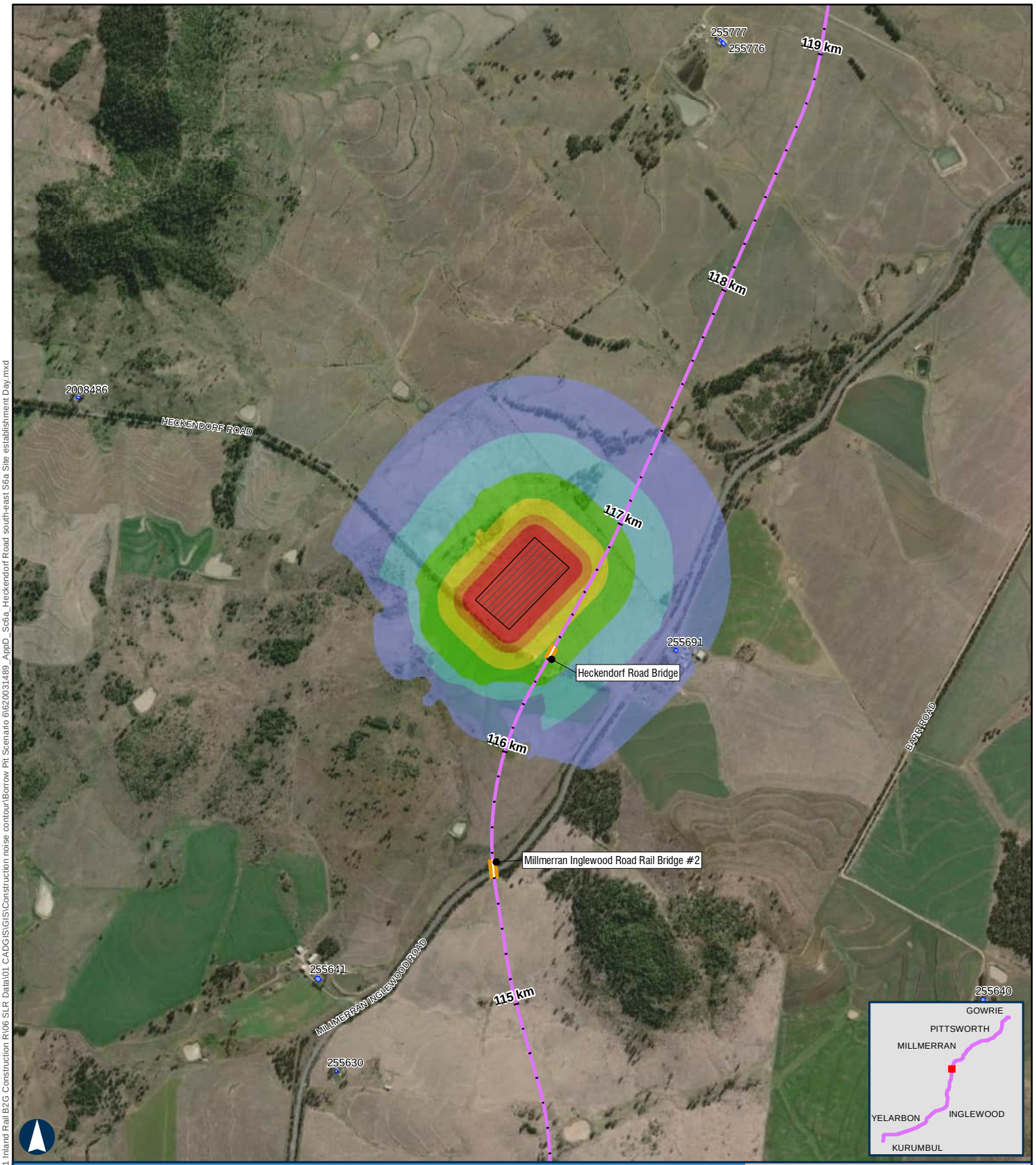

BORDER TO GOWRIE

Scenario 6a - Heckendorf Road (South-East) Borrow Pit - Site Establishment - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:20,000
Date: 18-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)

- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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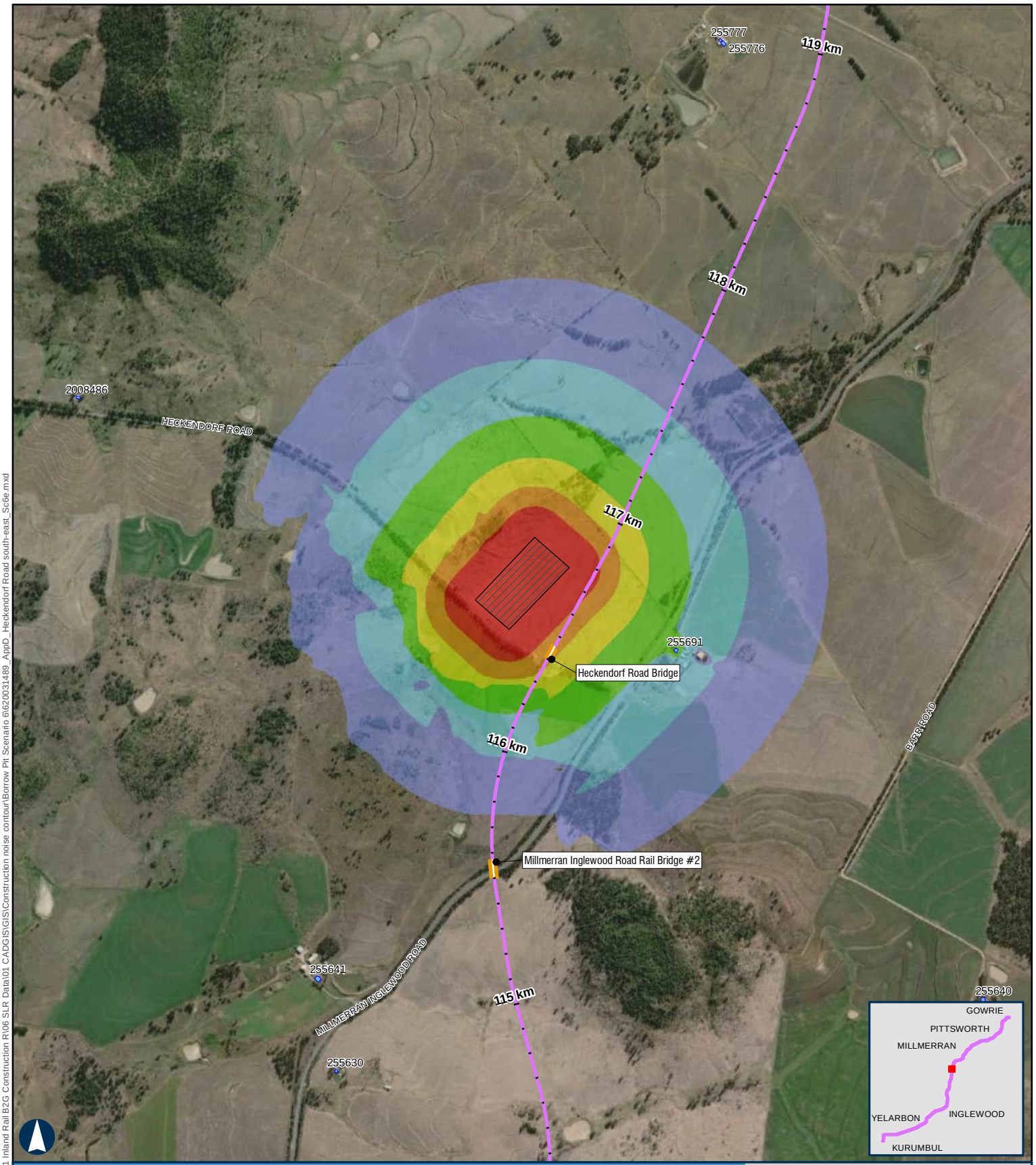

BORDER TO GOWRIE

Scenario 6e - Heckendorf Road (South-East) Borrow Pit - Combined Operations - Daytime

APPENDIX D

500 m

Coordinate System: GDA 1994 MGA Zone 56

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- Level Crossings
- Flying Fox Camp
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels (dBA)

- <= 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75

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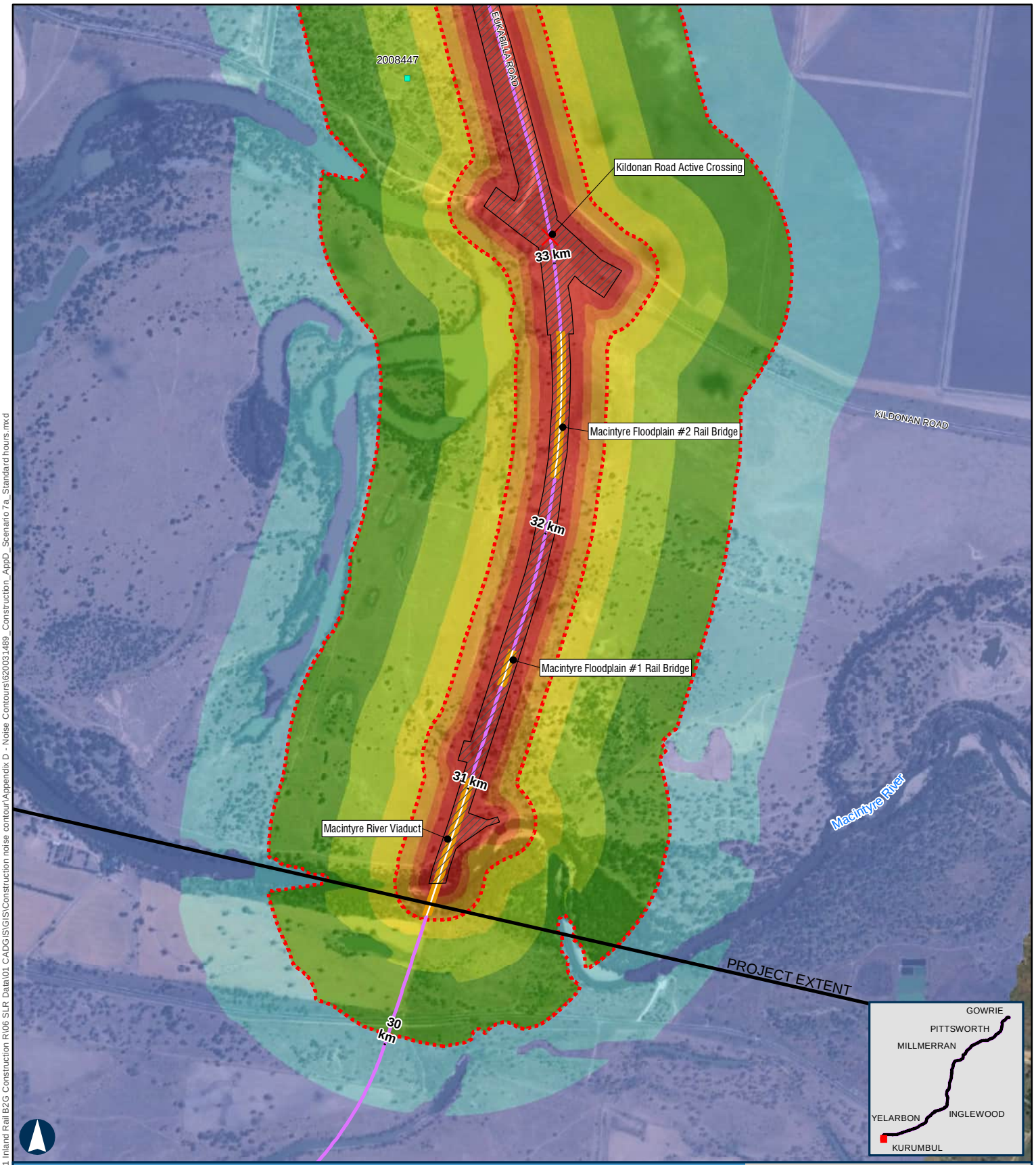

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 1 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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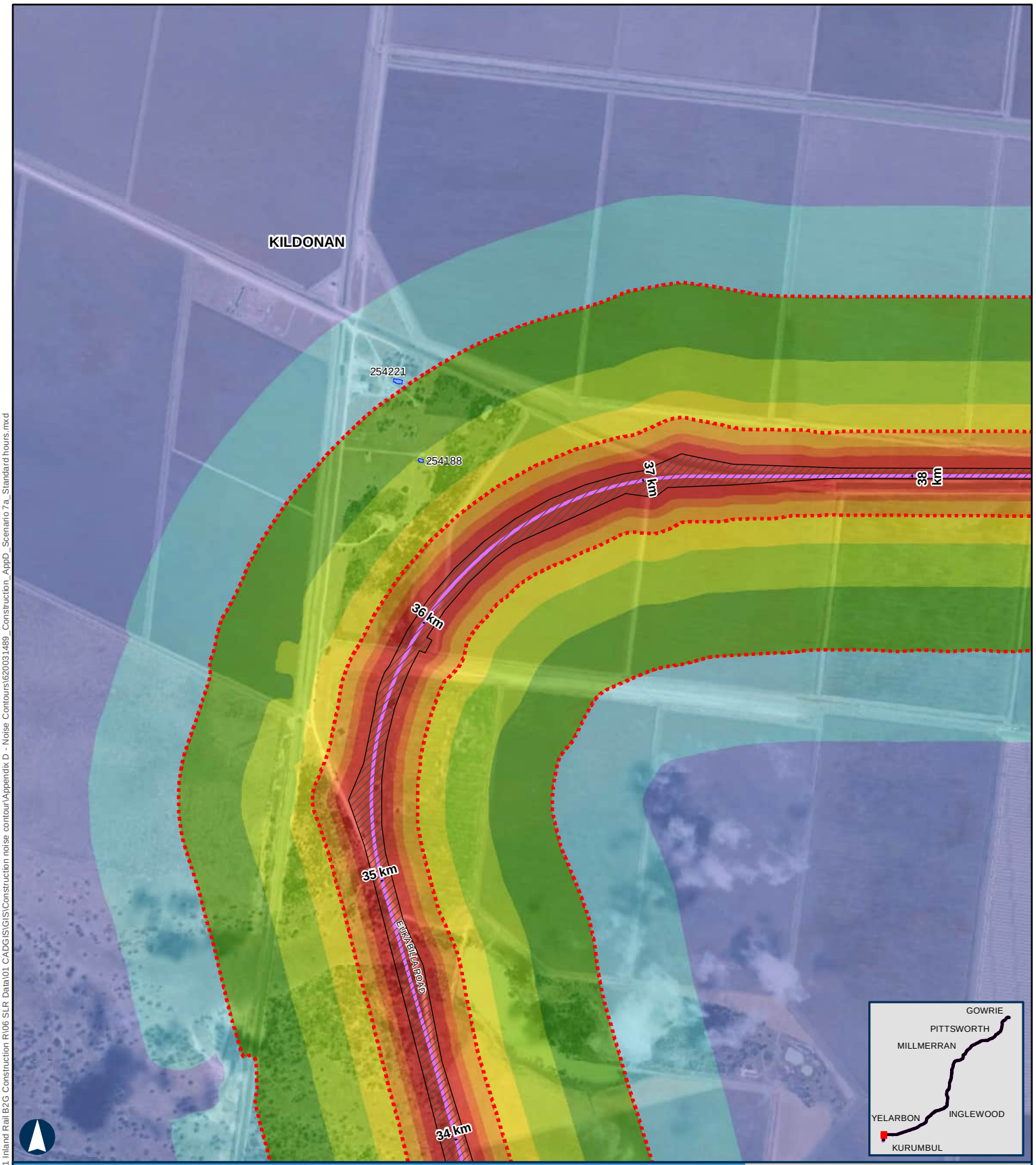

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 2 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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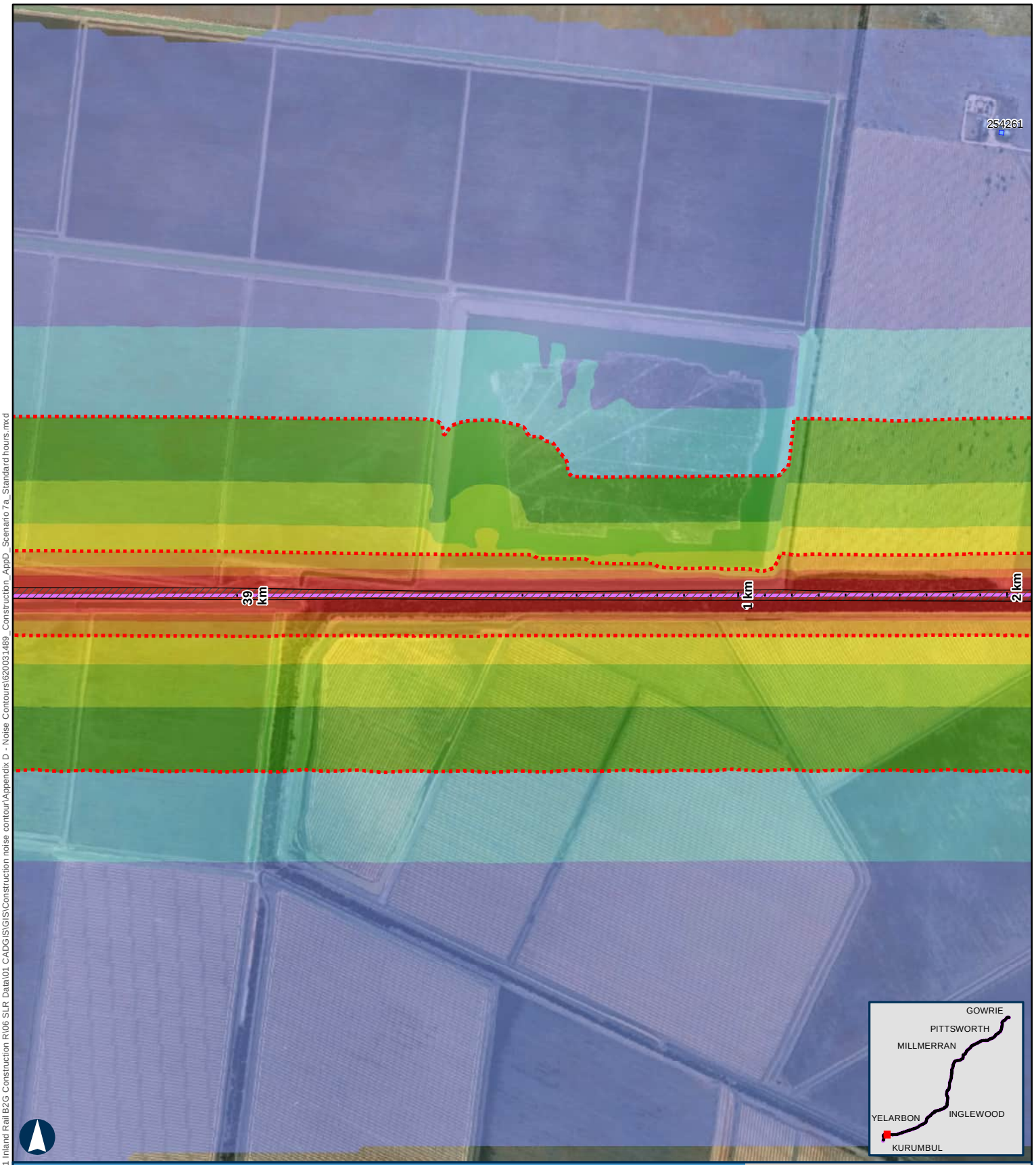

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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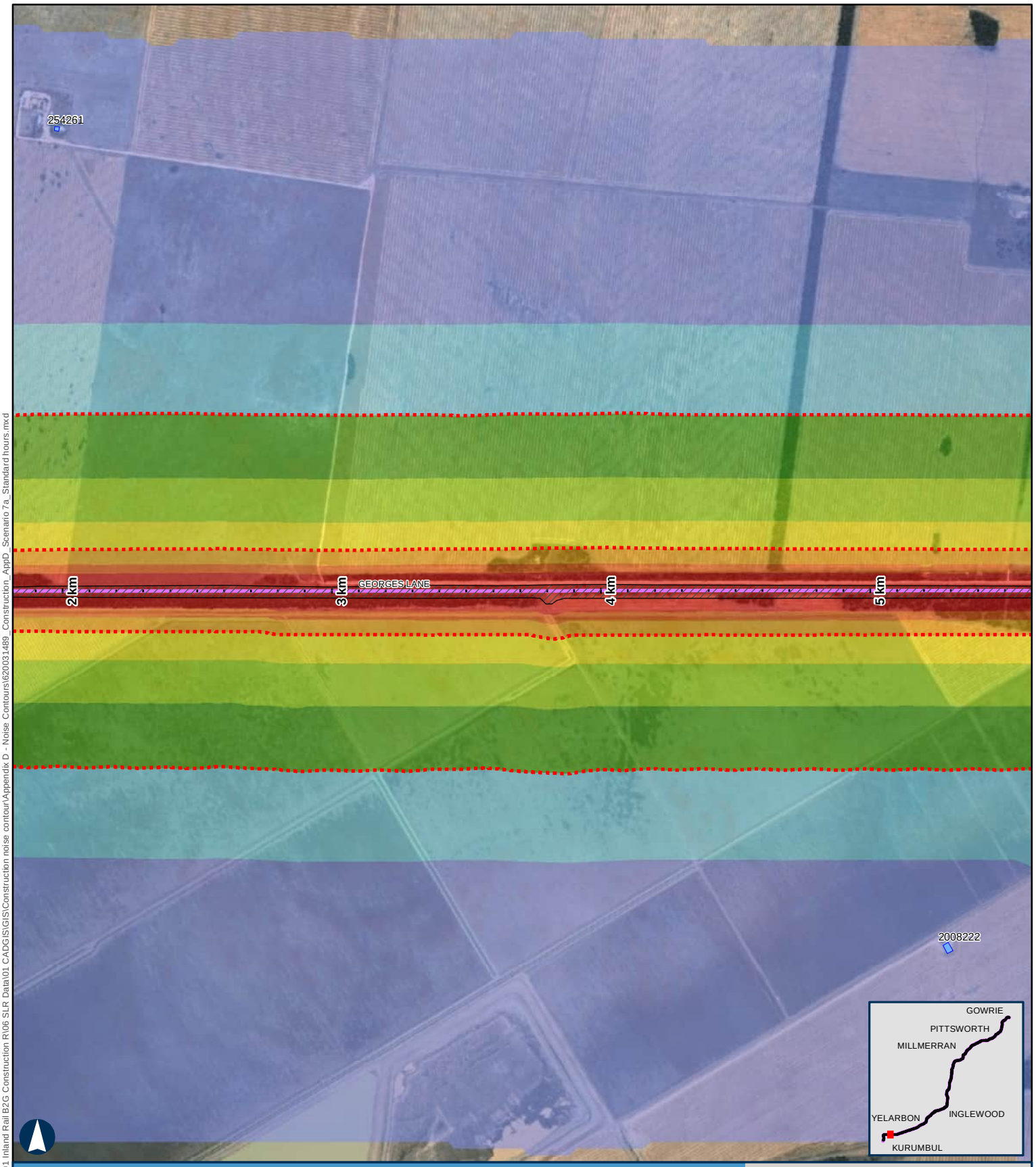

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 4 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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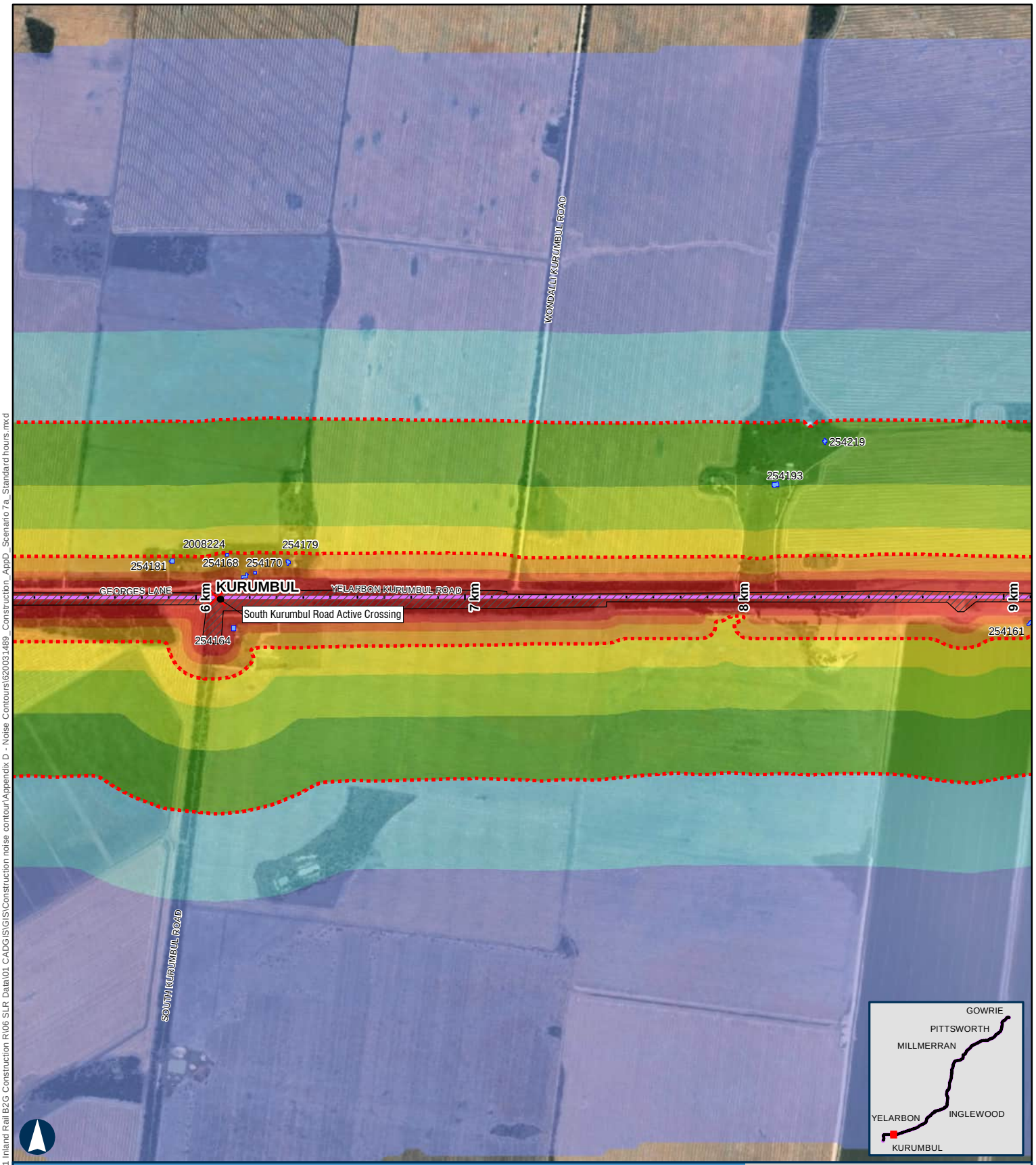

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 5 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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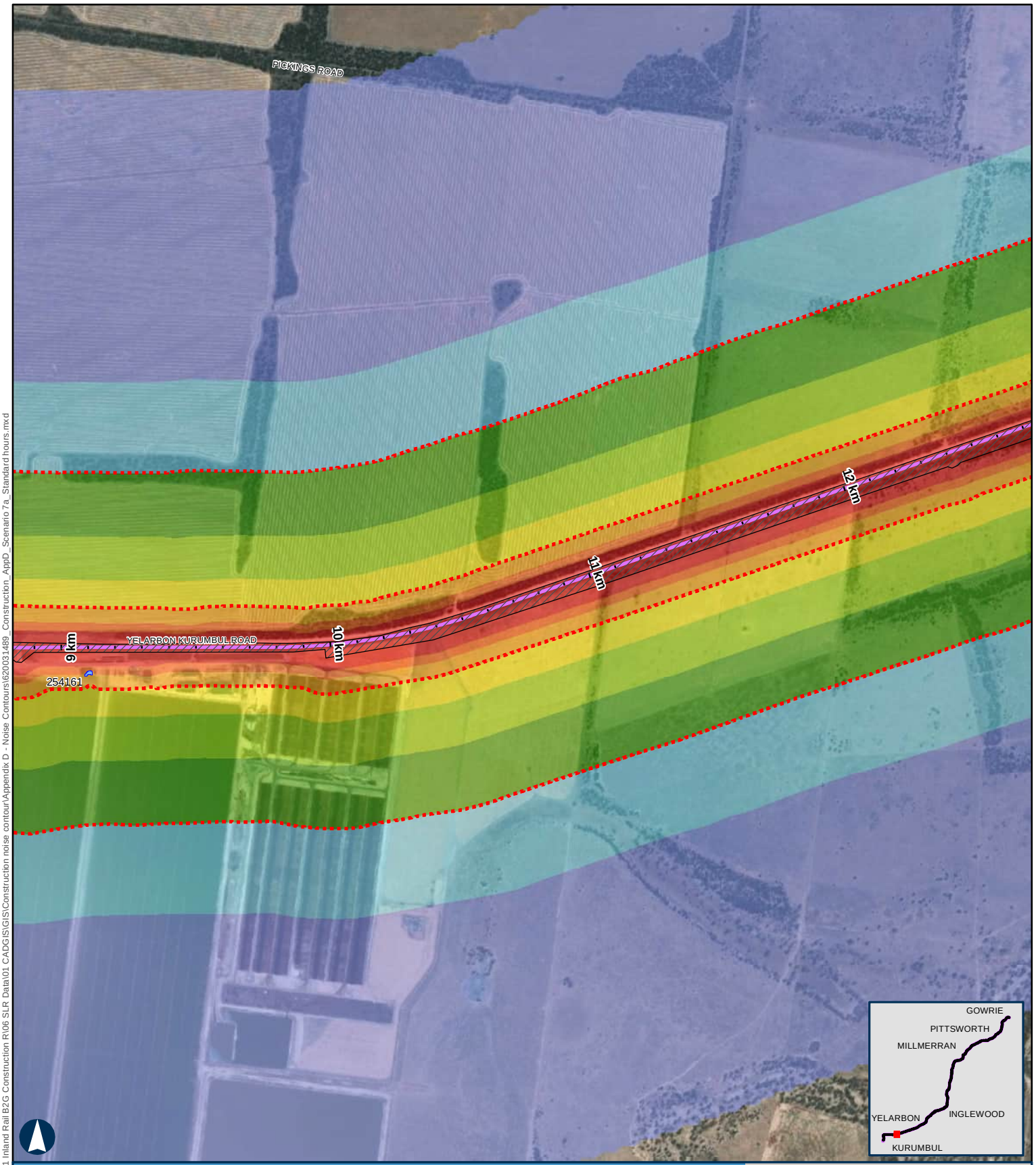

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 6 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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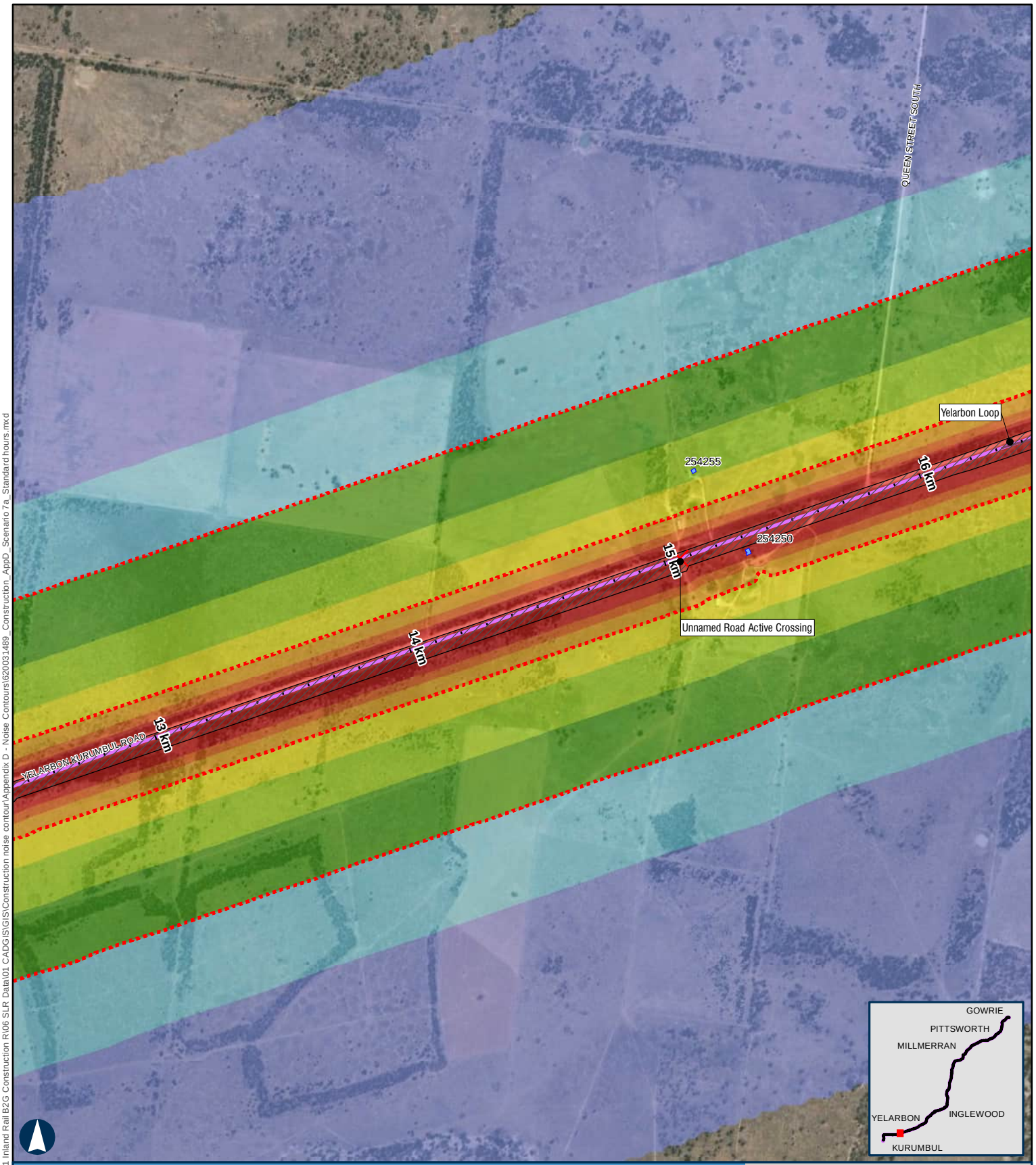

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 7 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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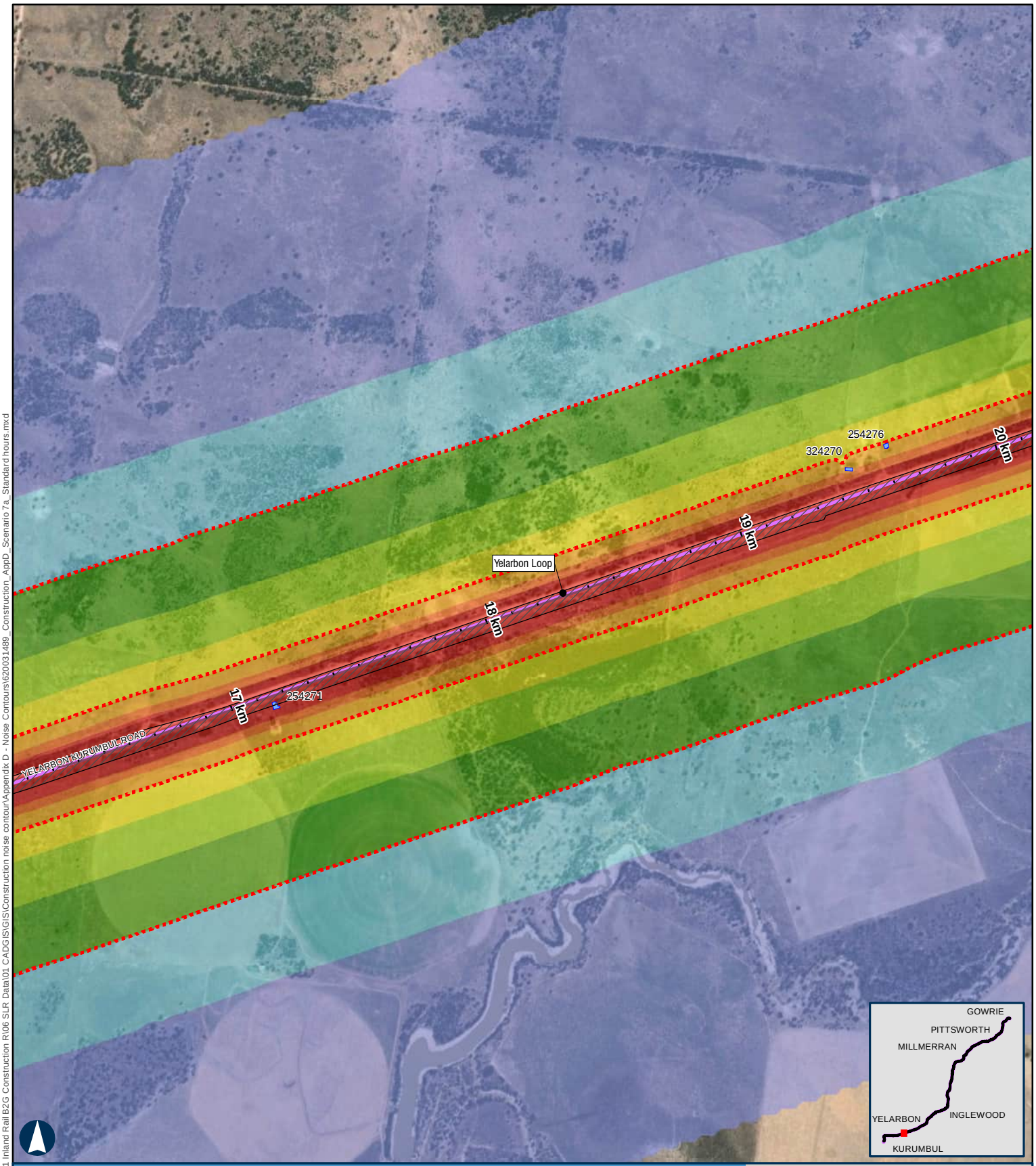

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 8 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

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- Koala Habitat Area

Sensitive Receptor Type
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- Commercial
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- Future Developments

Noise Levels
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- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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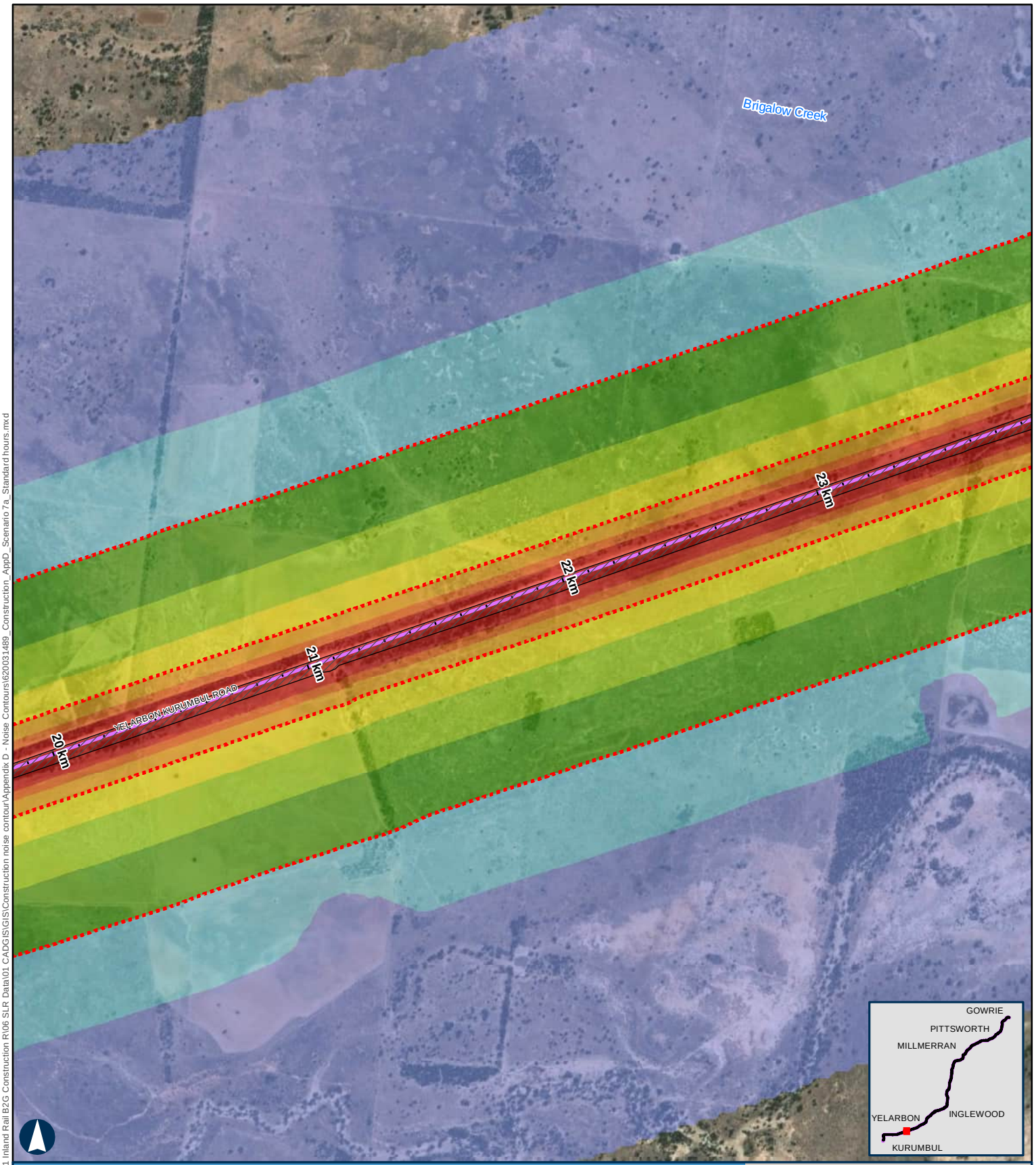

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 9 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Koala Habitat Area

Sensitive Receptor Type
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Noise Levels
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- 70-75 dBA
- >75 dBA

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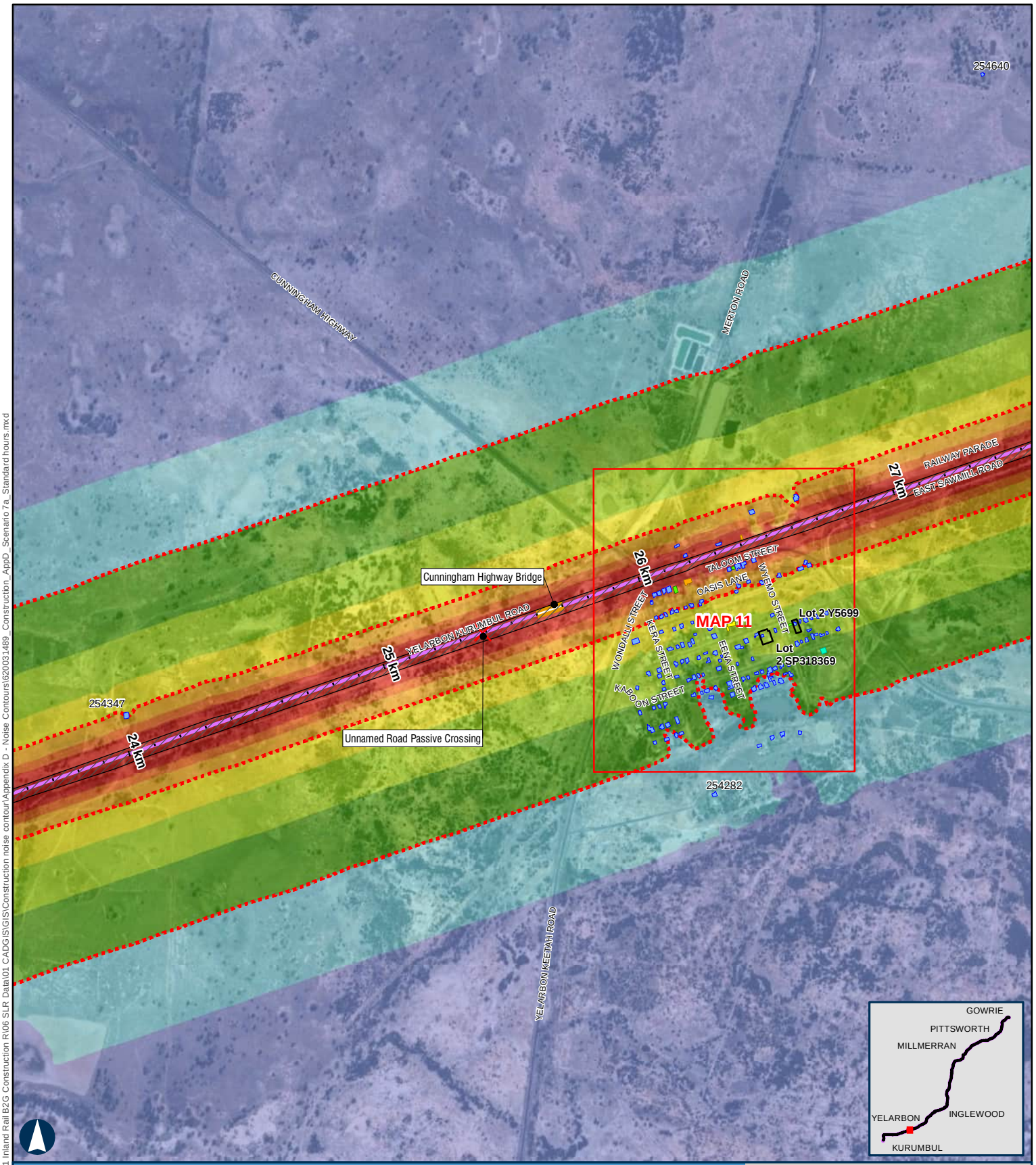

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 10 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Koala Habitat Area

Sensitive Receptor Type

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- Future Developments

Noise Levels

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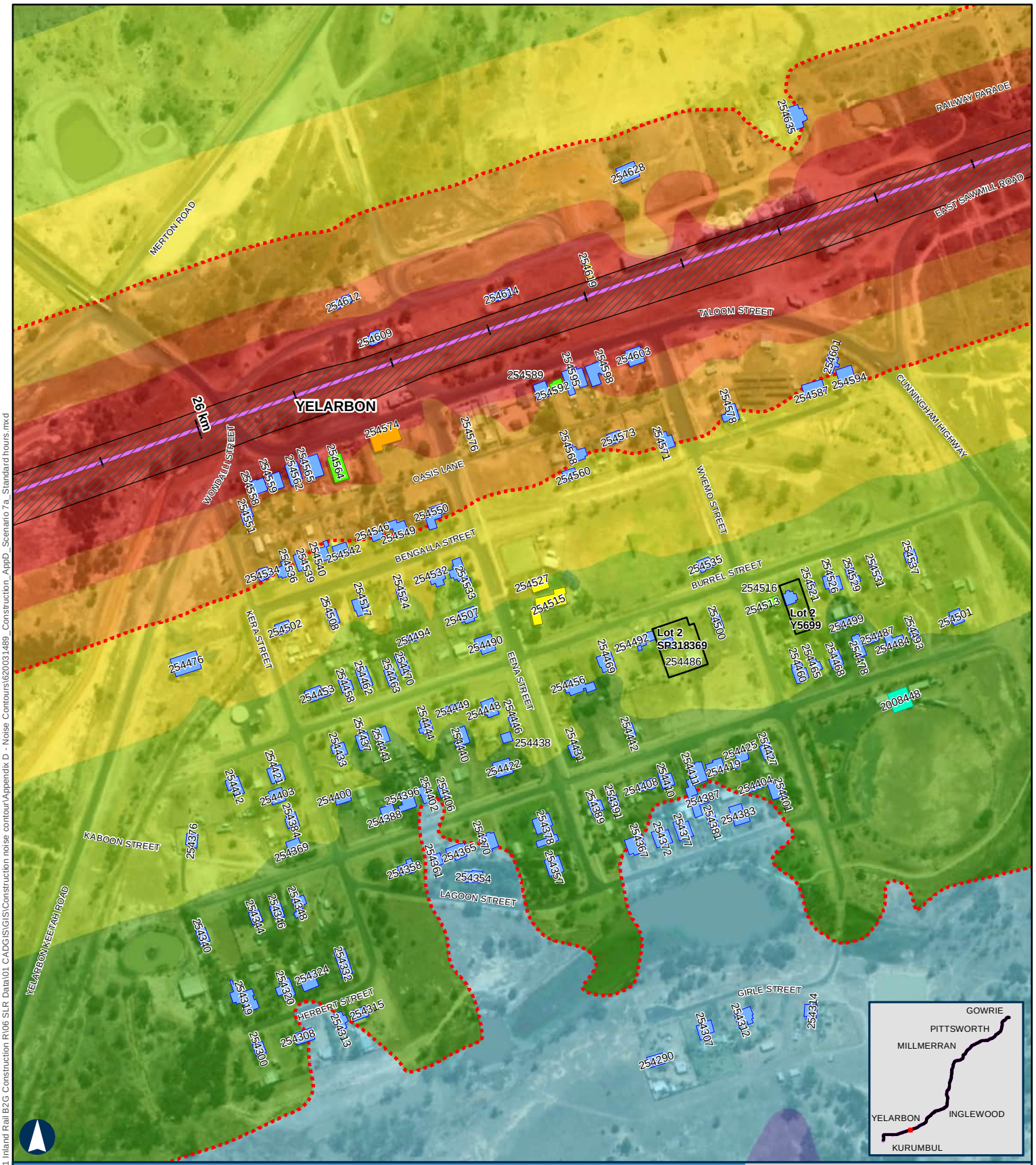

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 11 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 11-Nov-2024
Author: JG

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- Criteria (50 and 65 dBA)
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- Koala Habitat Area

Sensitive Receptor Type

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- Future Developments

Noise Levels

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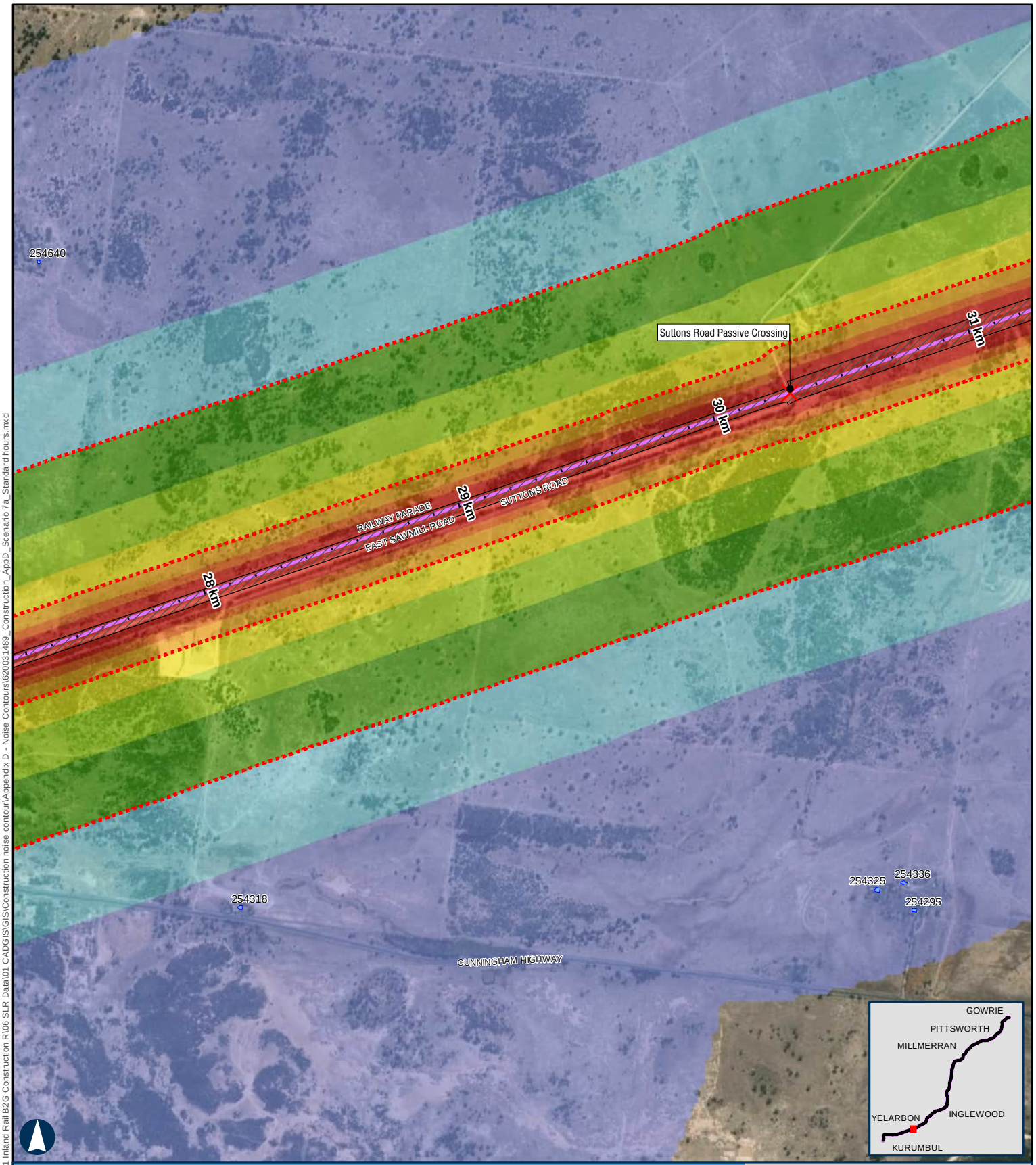

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 12 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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Sensitive Receptor Type
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Noise Levels
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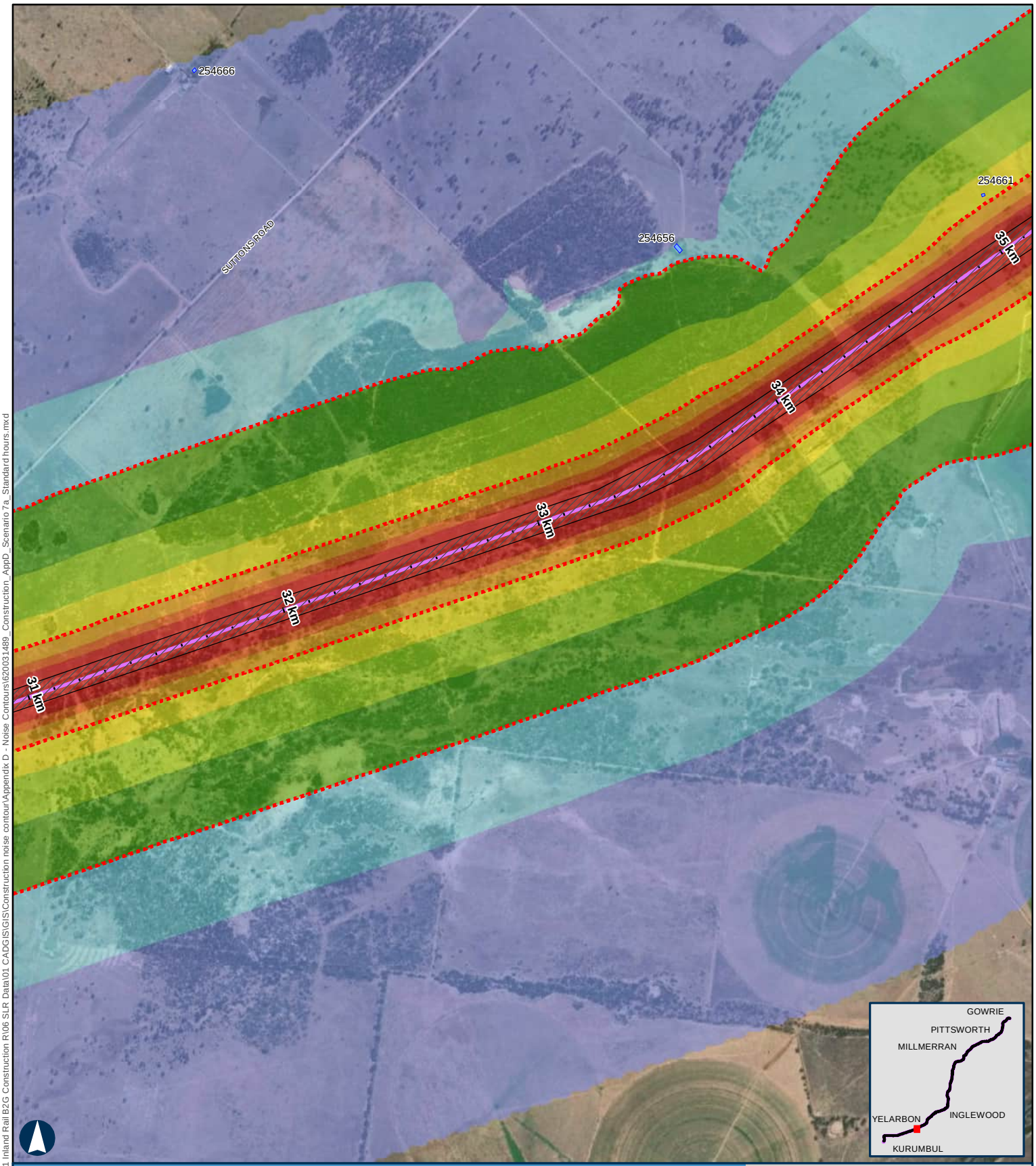

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 13 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type
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Noise Levels
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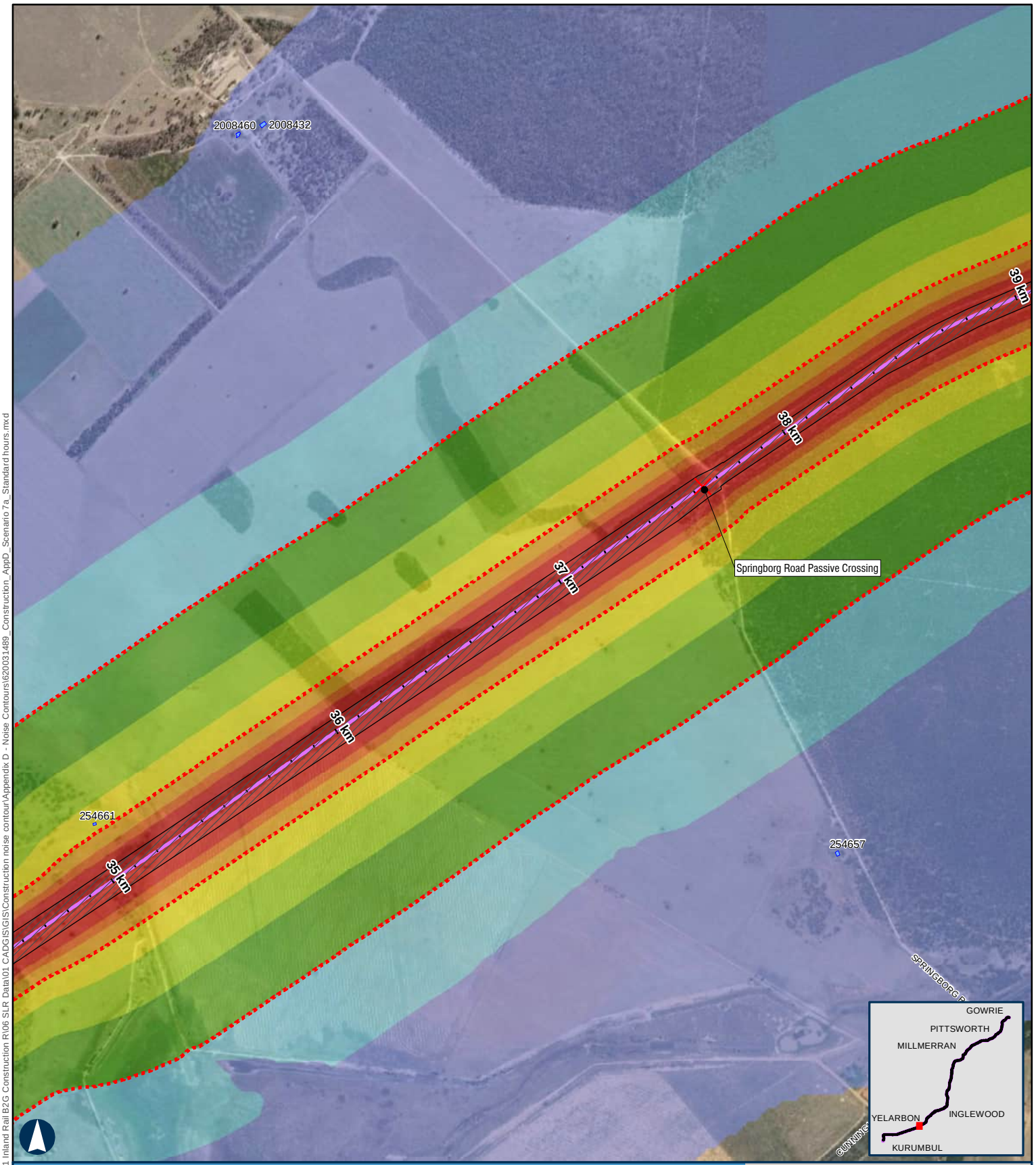

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 14 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

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Sensitive Receptor Type
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Noise Levels
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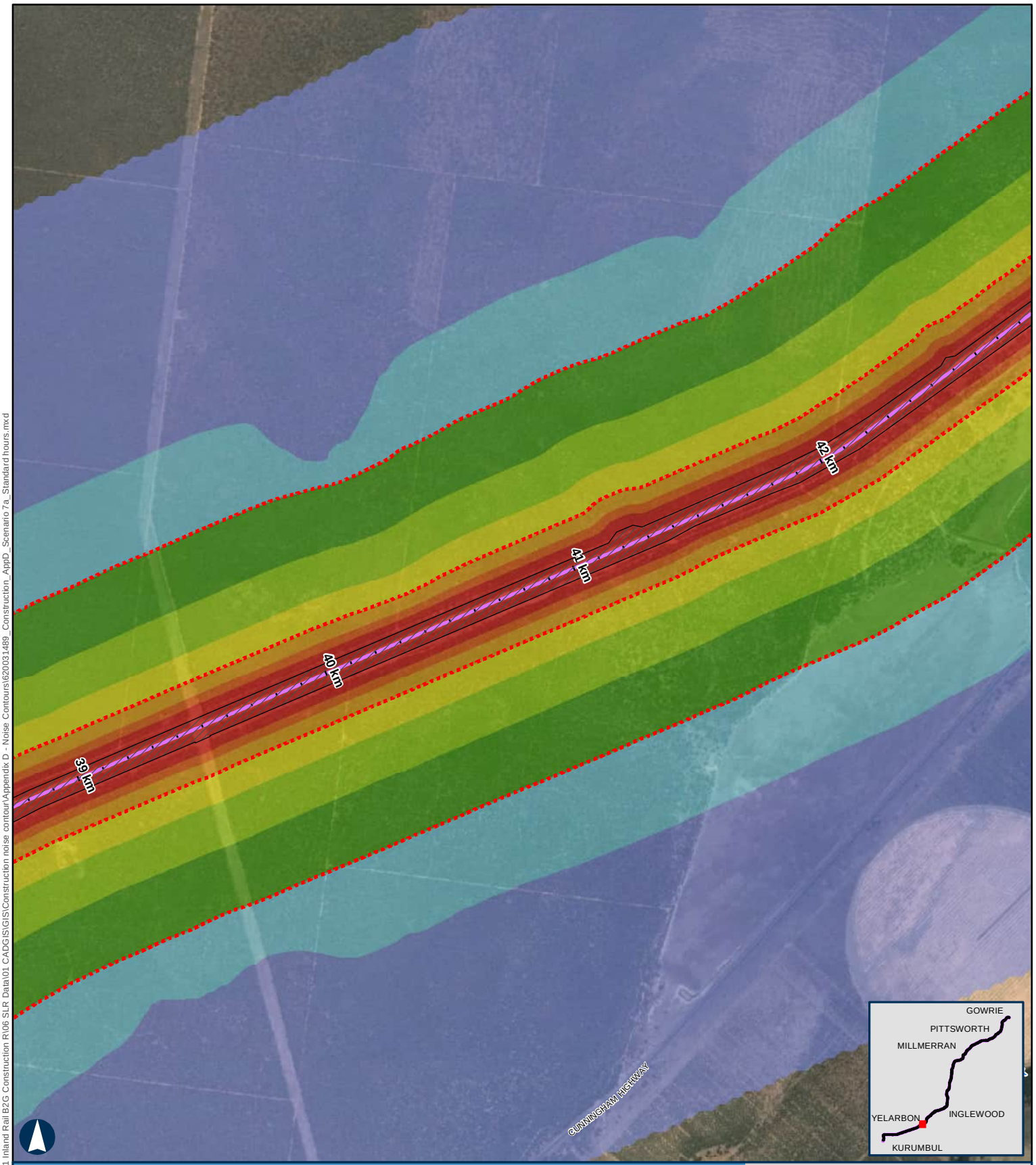

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 15 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
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- Criteria (50 and 65 dBA)
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- Crossing Loops
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
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- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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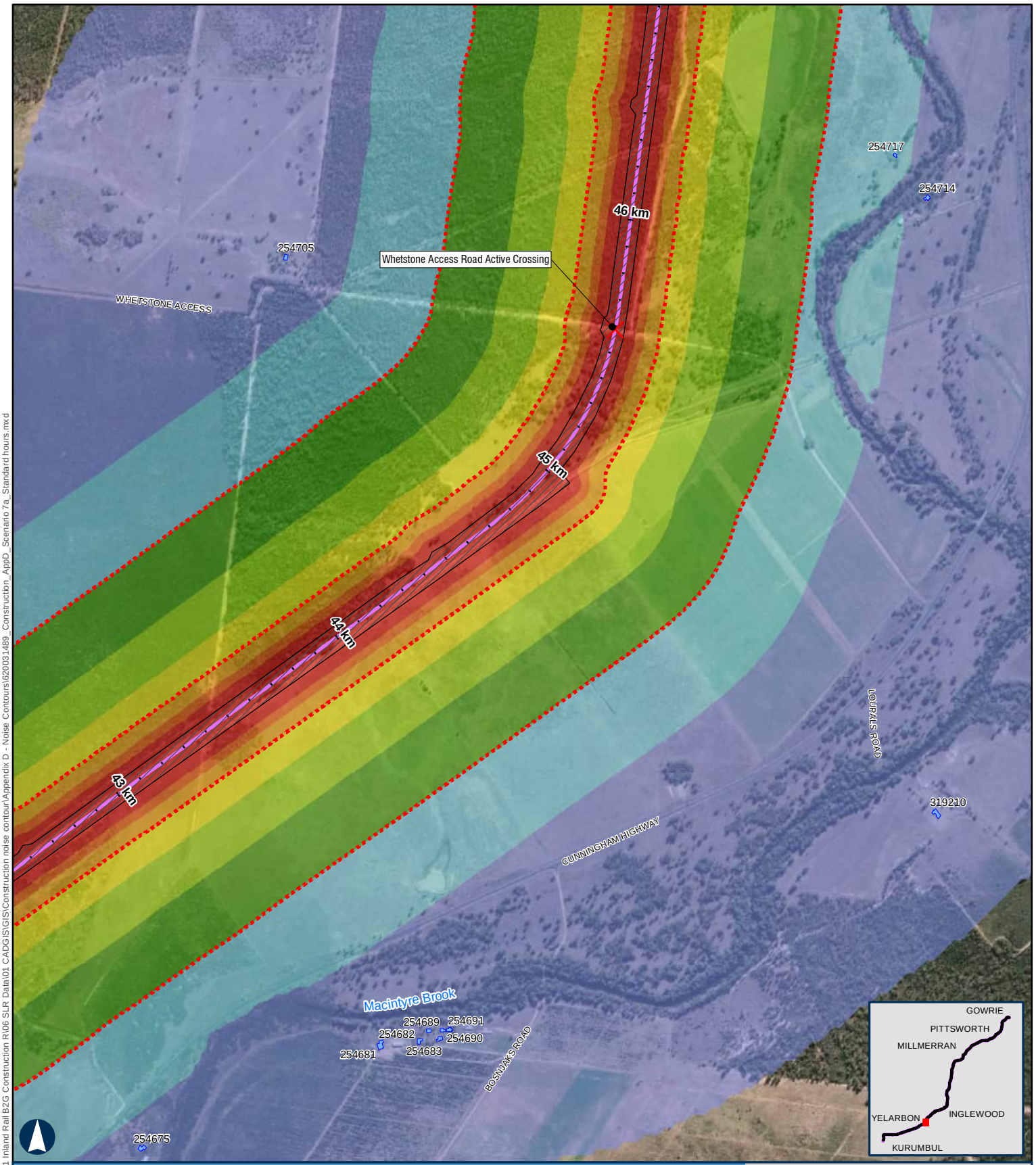

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 16 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Work Area
- Koala Habitat Area

Sensitive Receptor Type

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- Future Developments

Noise Levels

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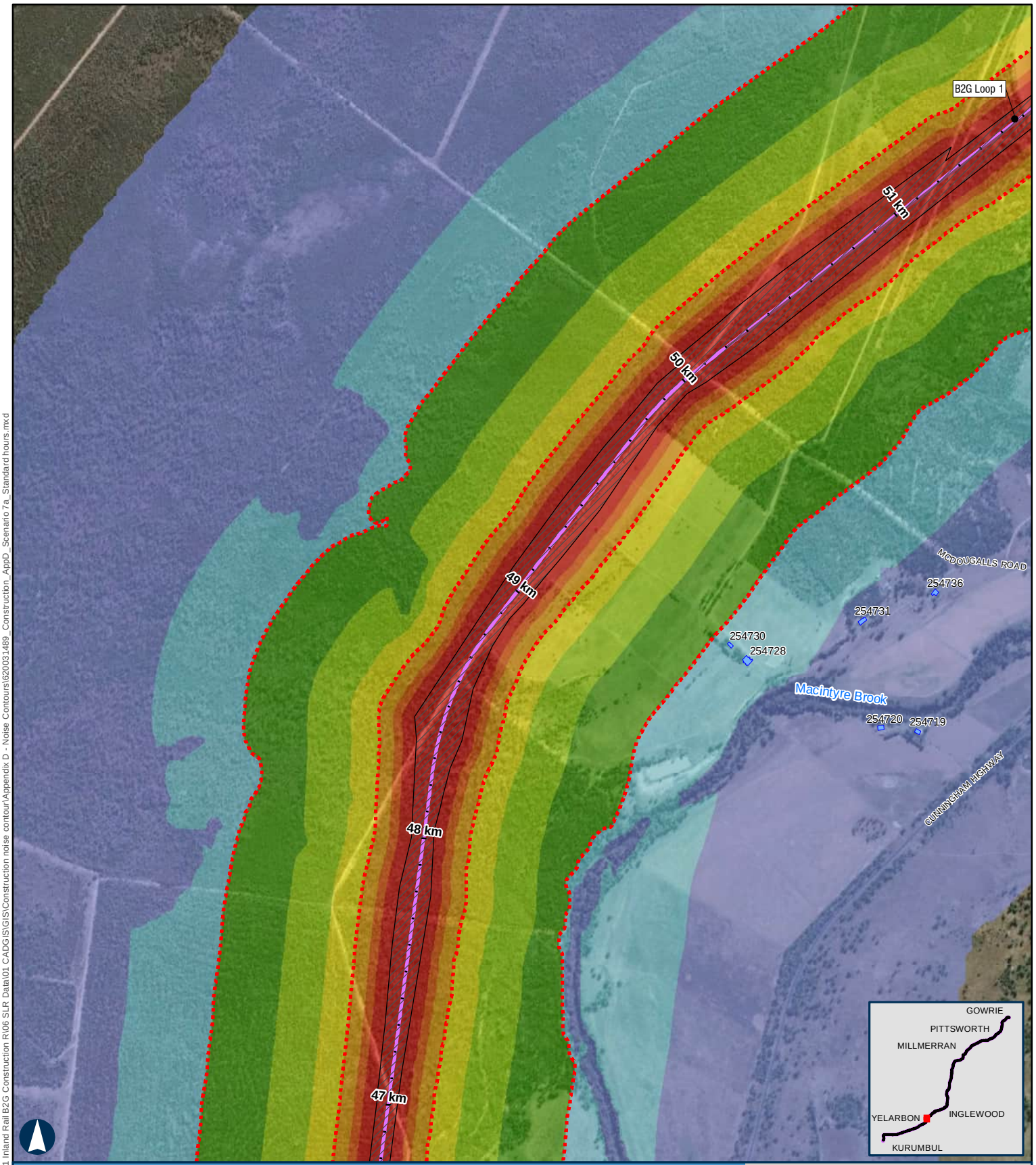

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 17 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type

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Noise Levels

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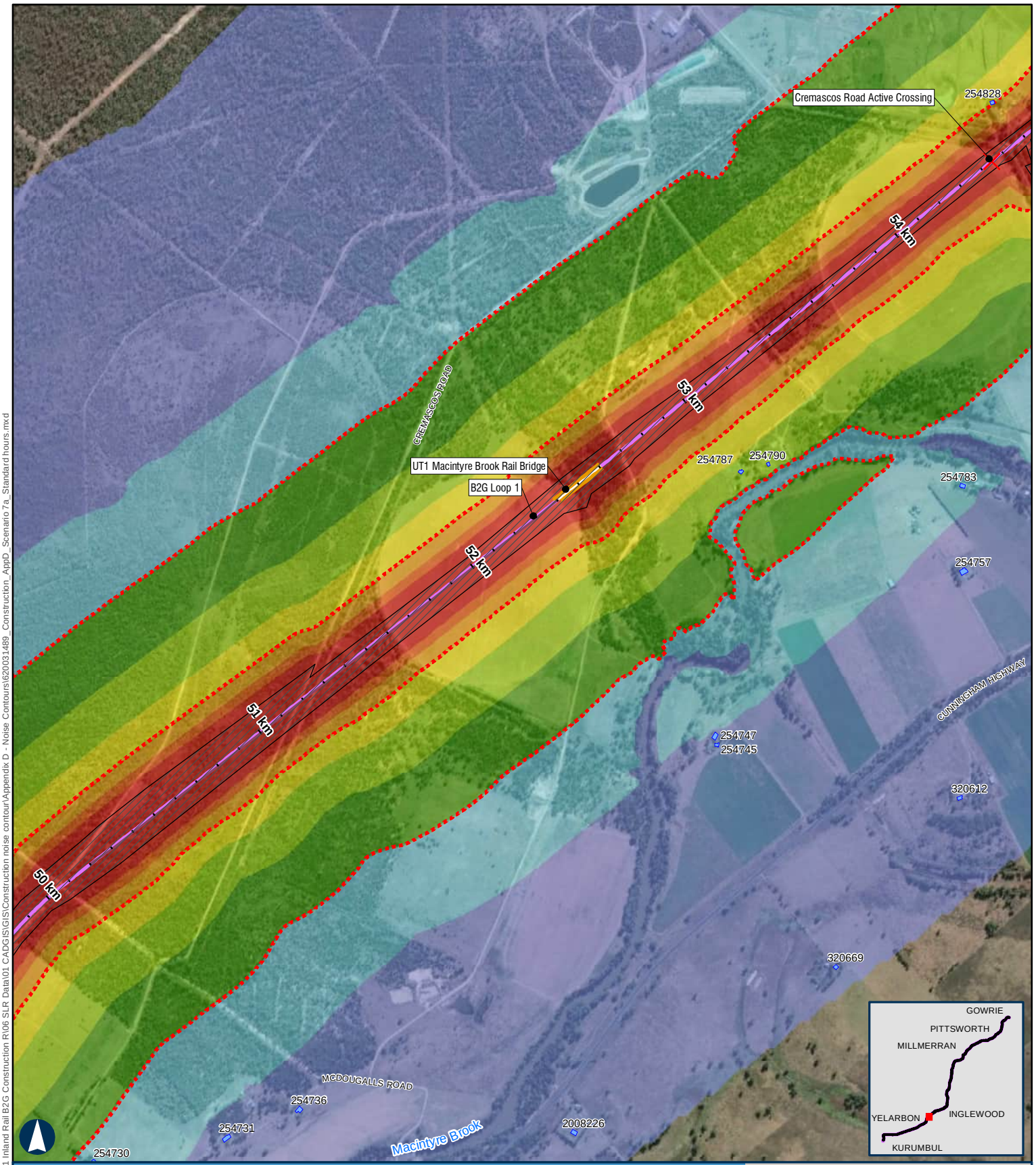

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 18 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

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Noise Levels
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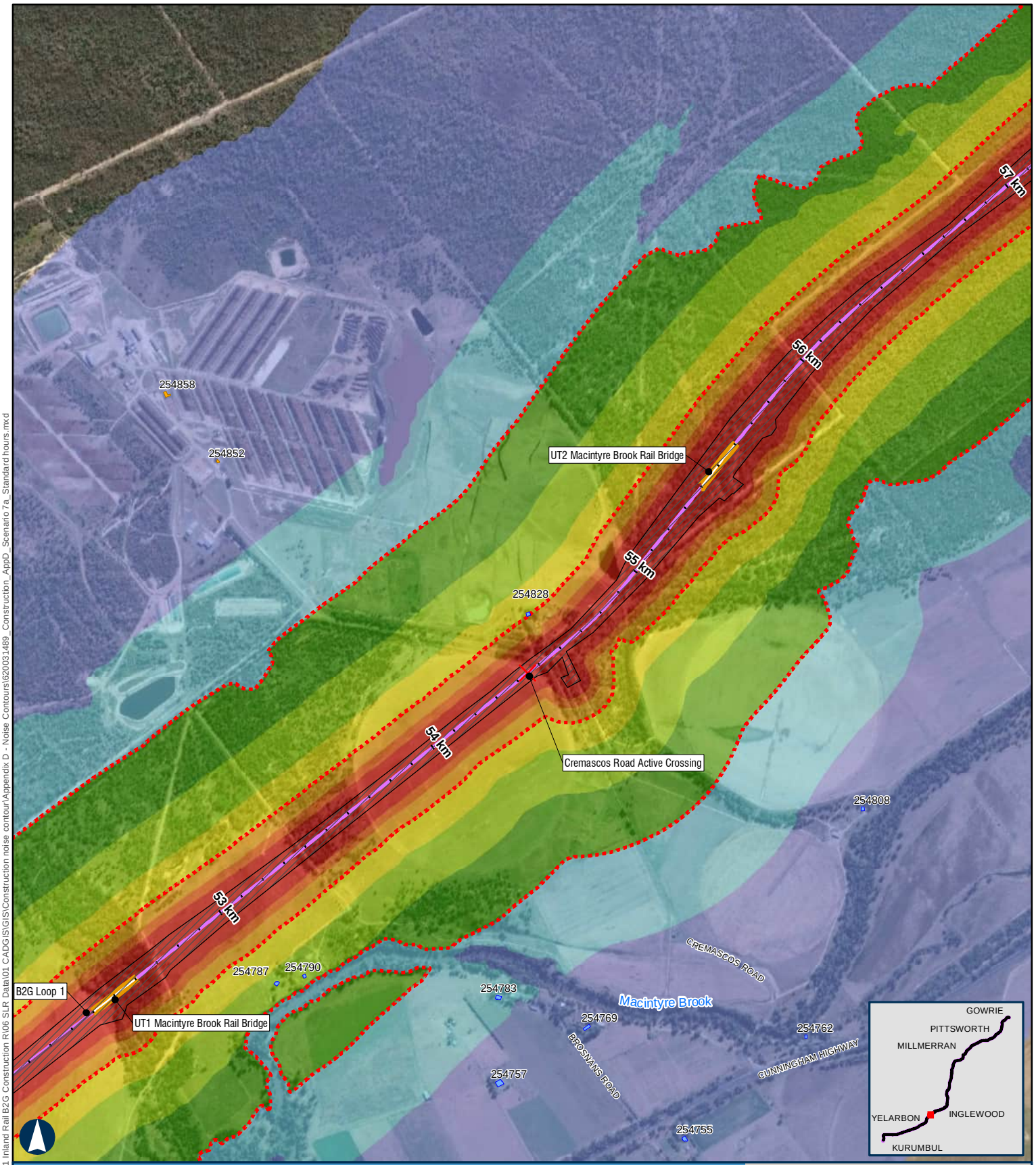

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 19 OF 67

100 m

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Sensitive Receptor Type

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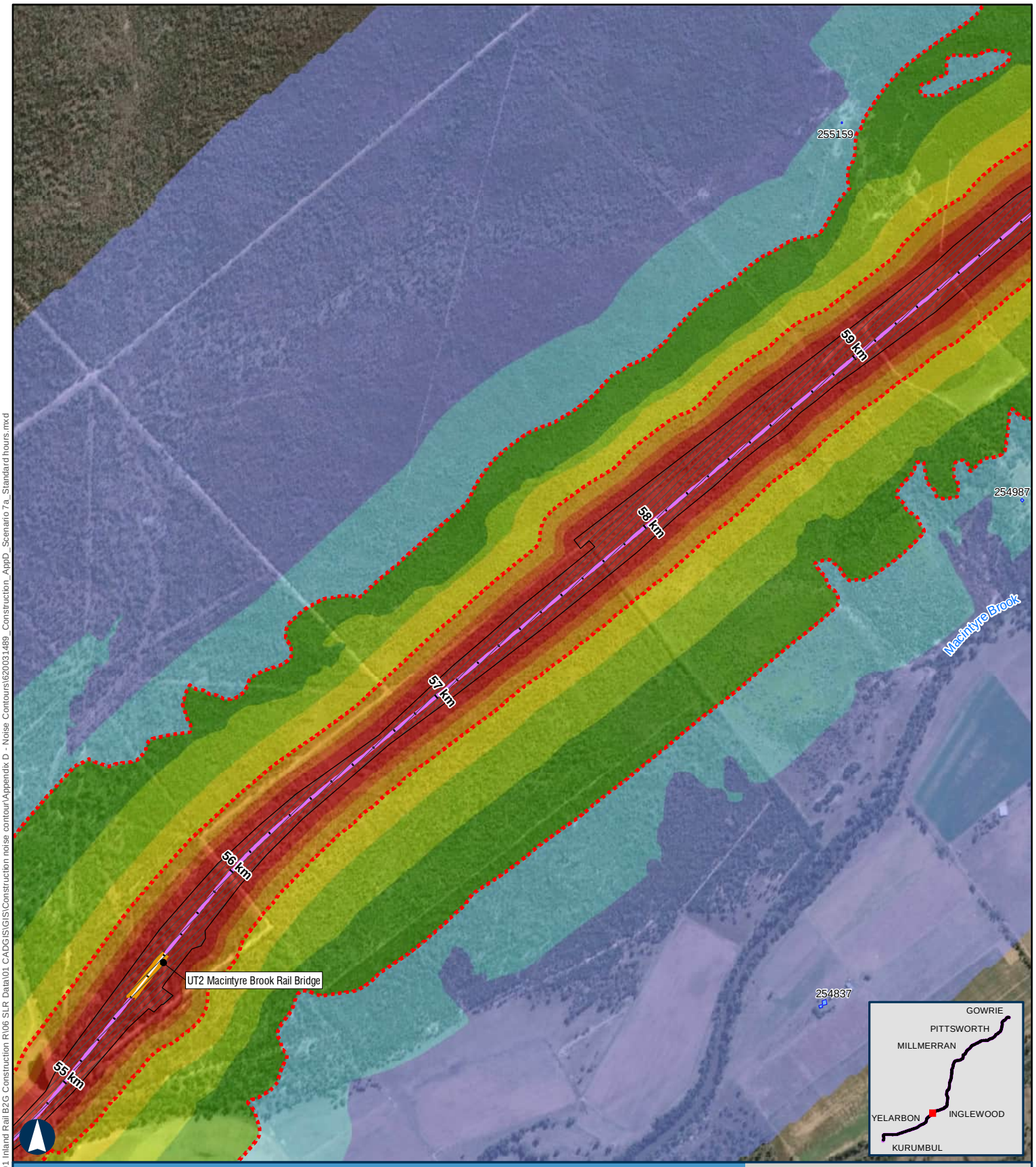

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 20 OF 67

100 m

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Author: JG

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- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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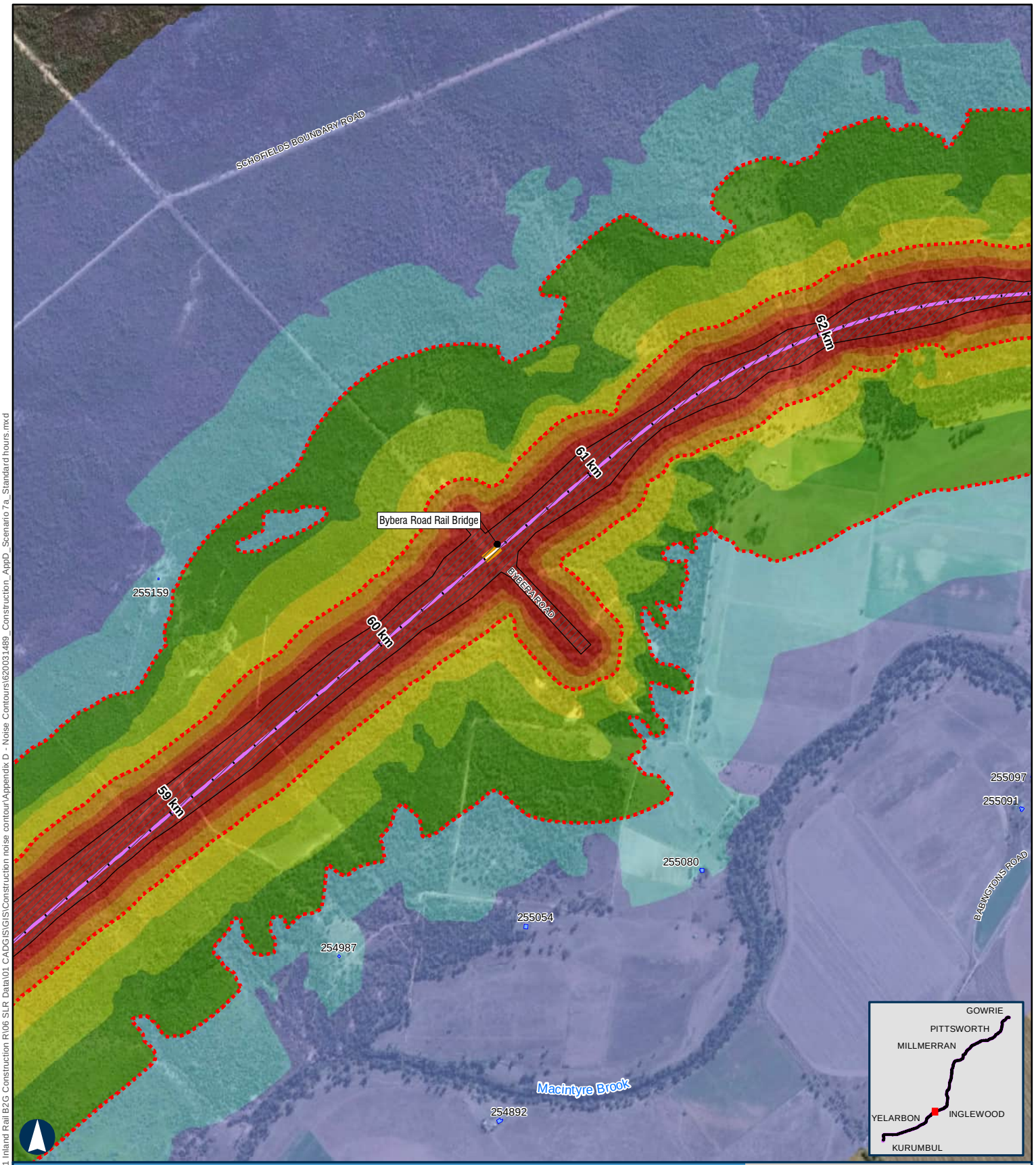

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 21 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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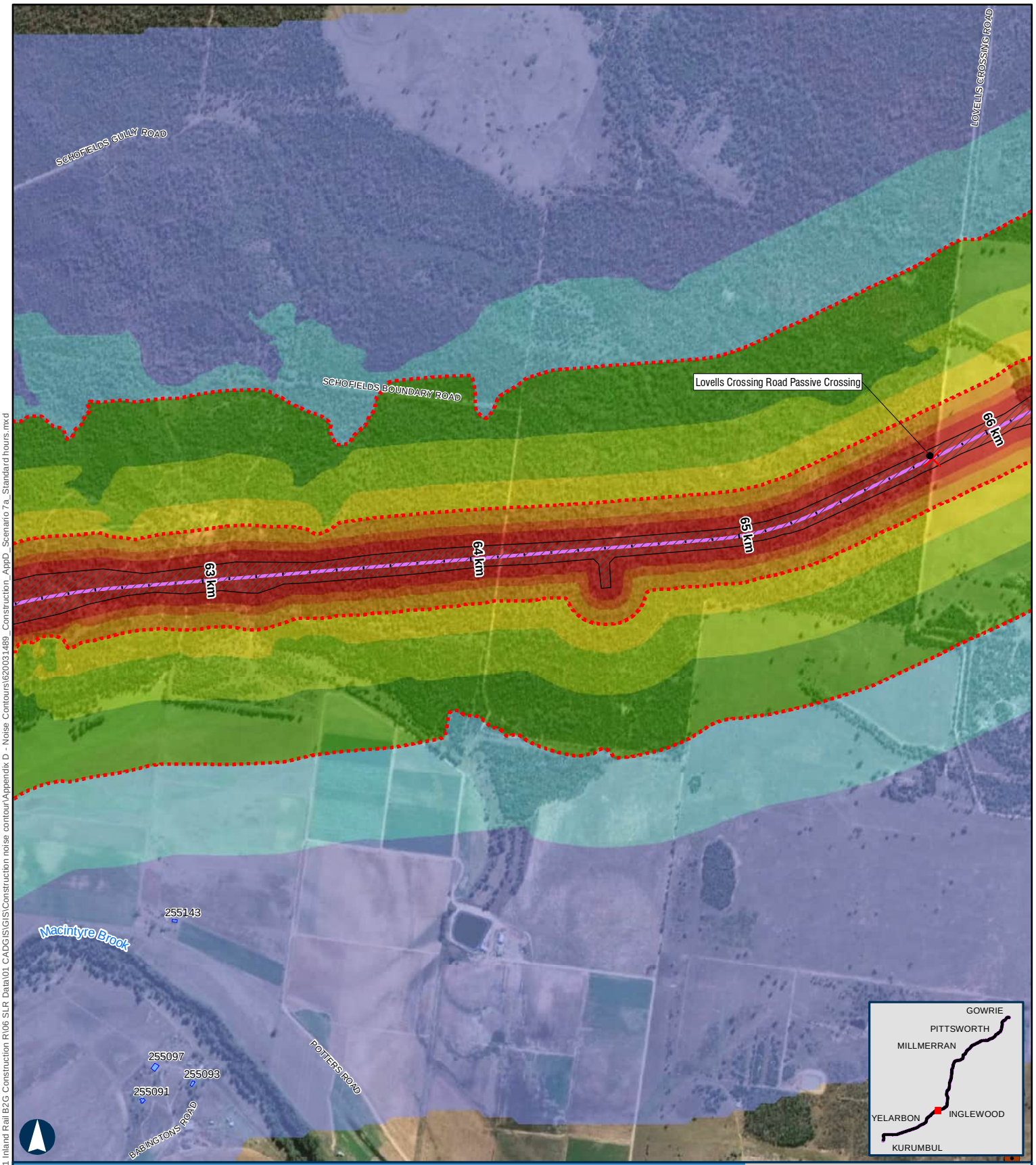

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 22 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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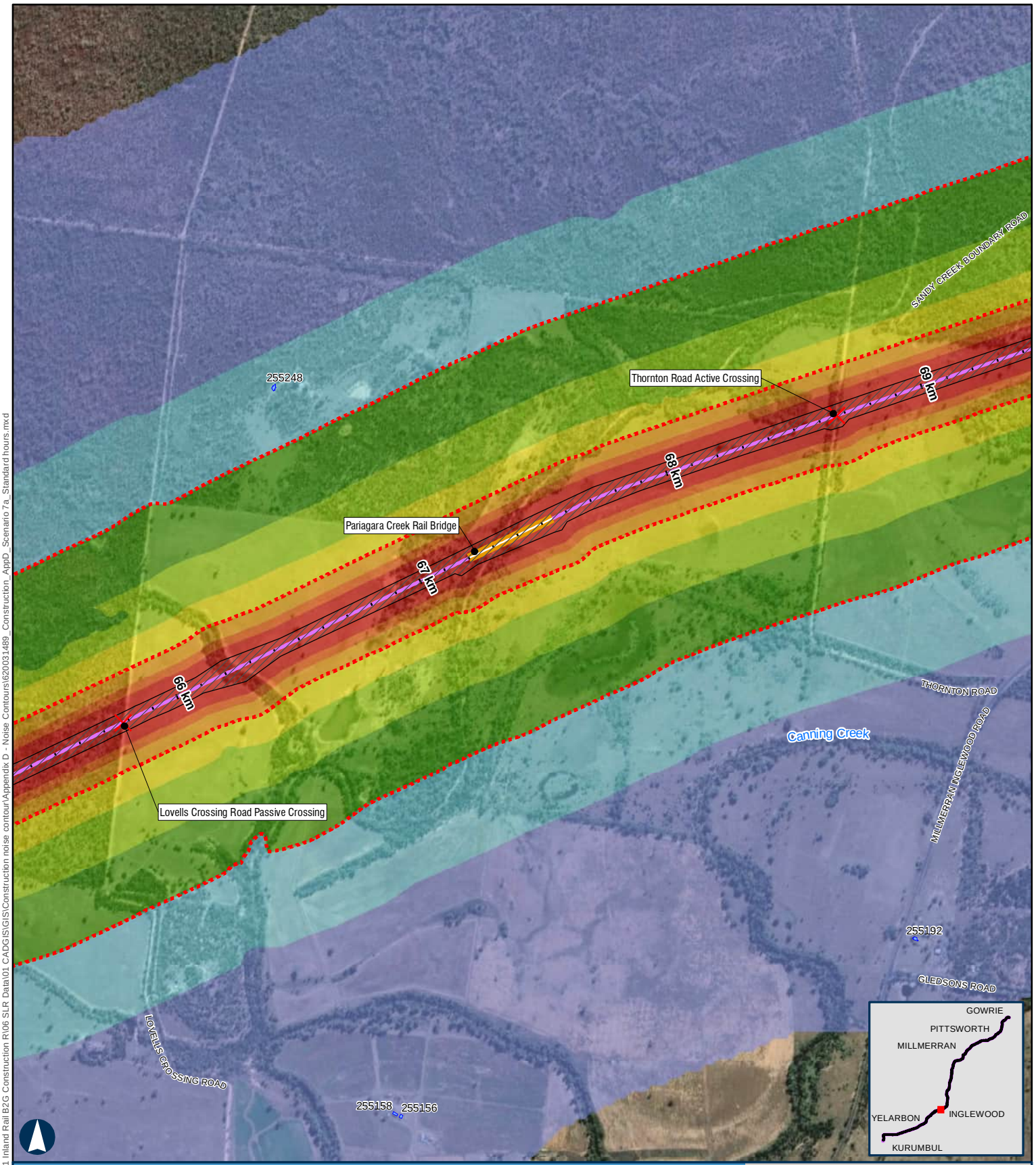

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 23 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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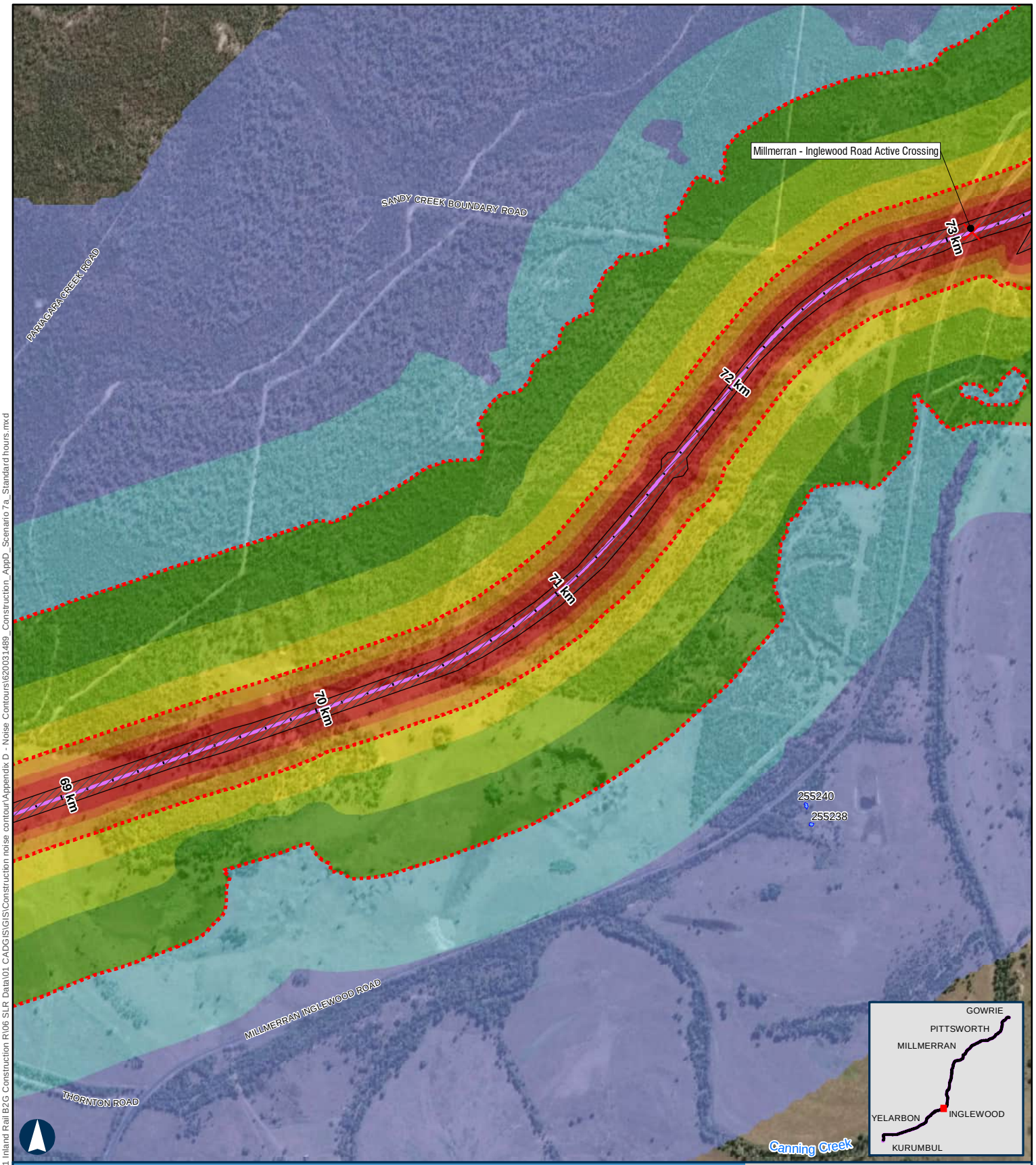

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 24 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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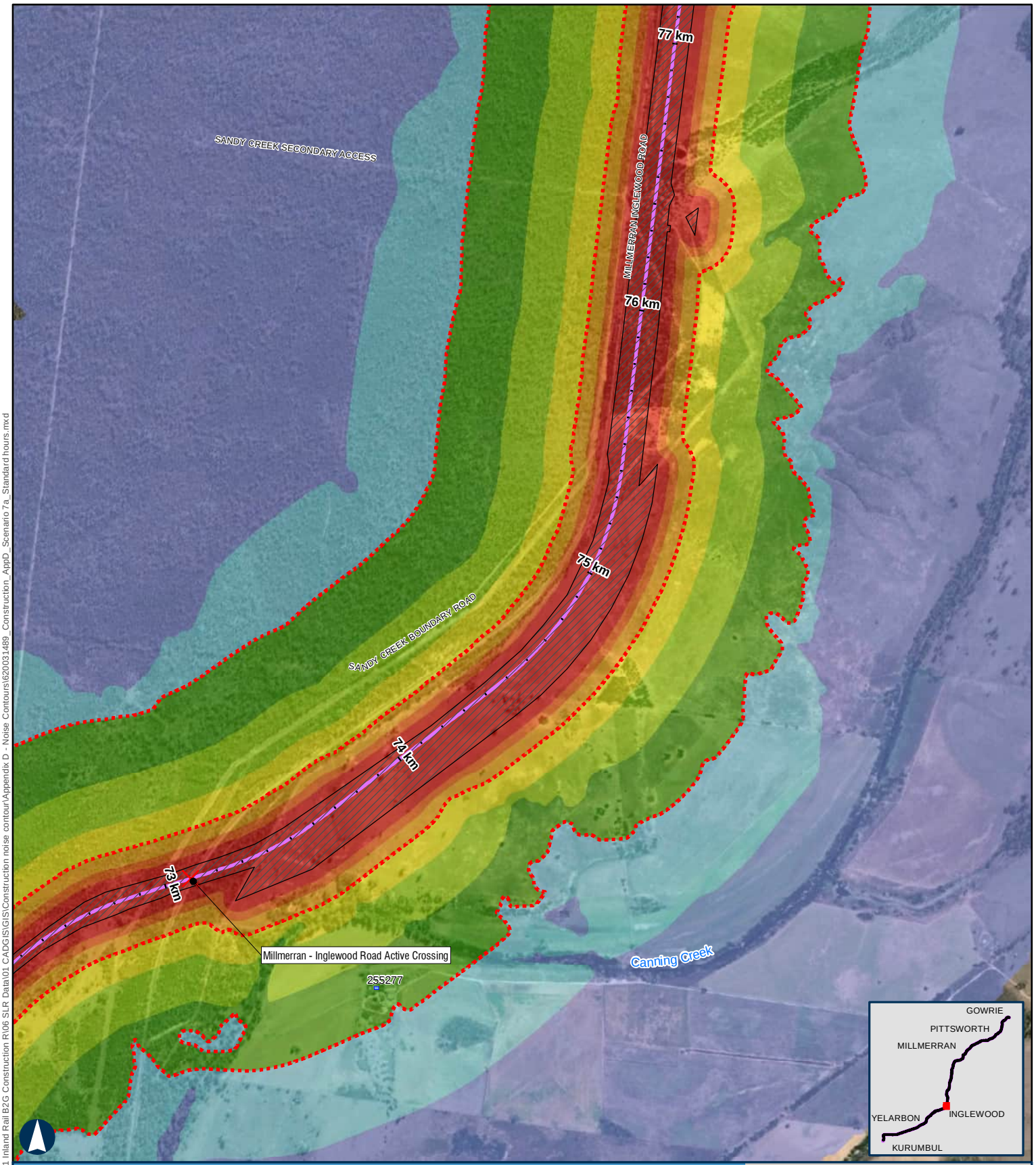

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 25 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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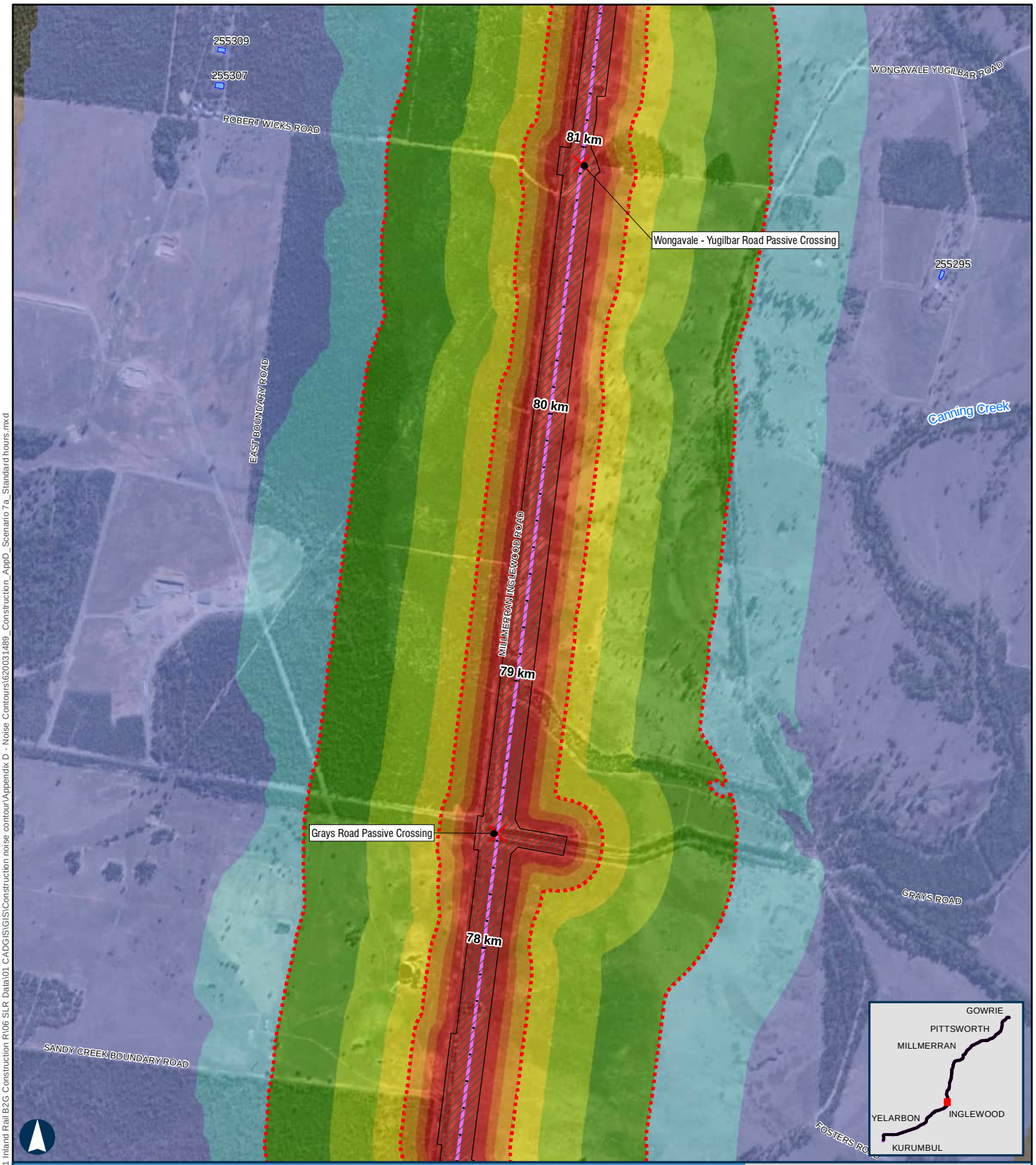

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 26 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Criteria (50 and 65 dBA)
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- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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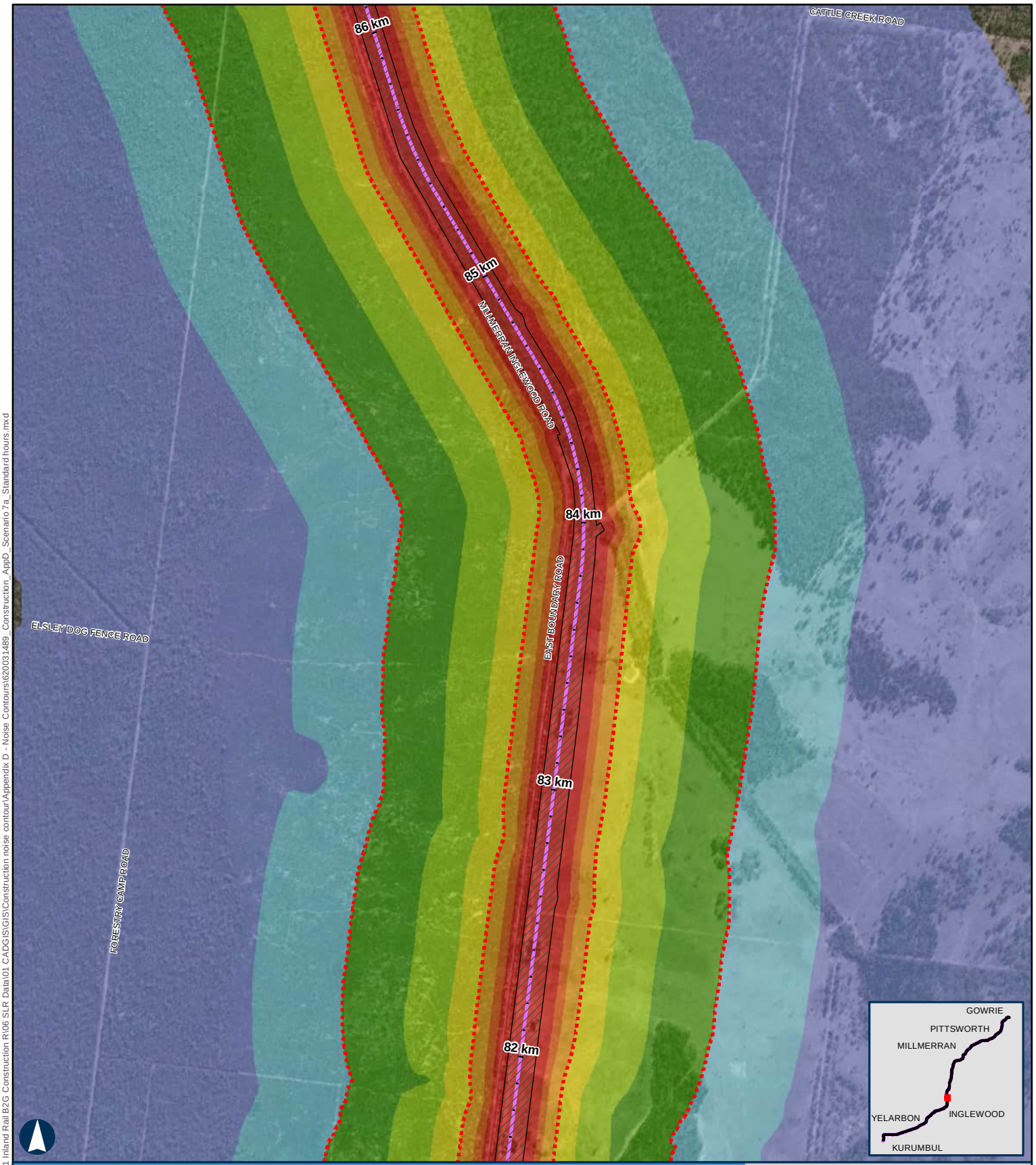

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 27 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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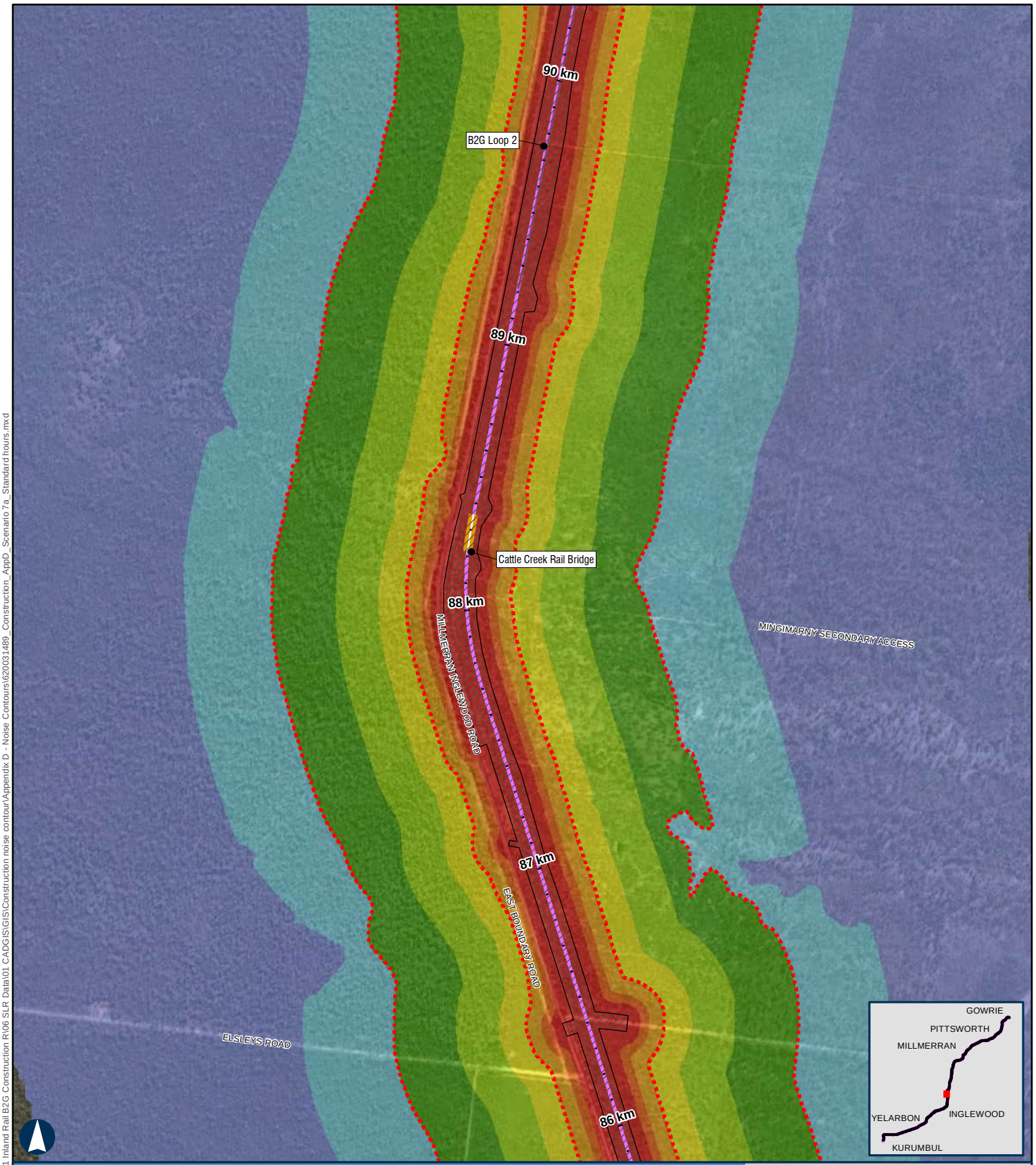

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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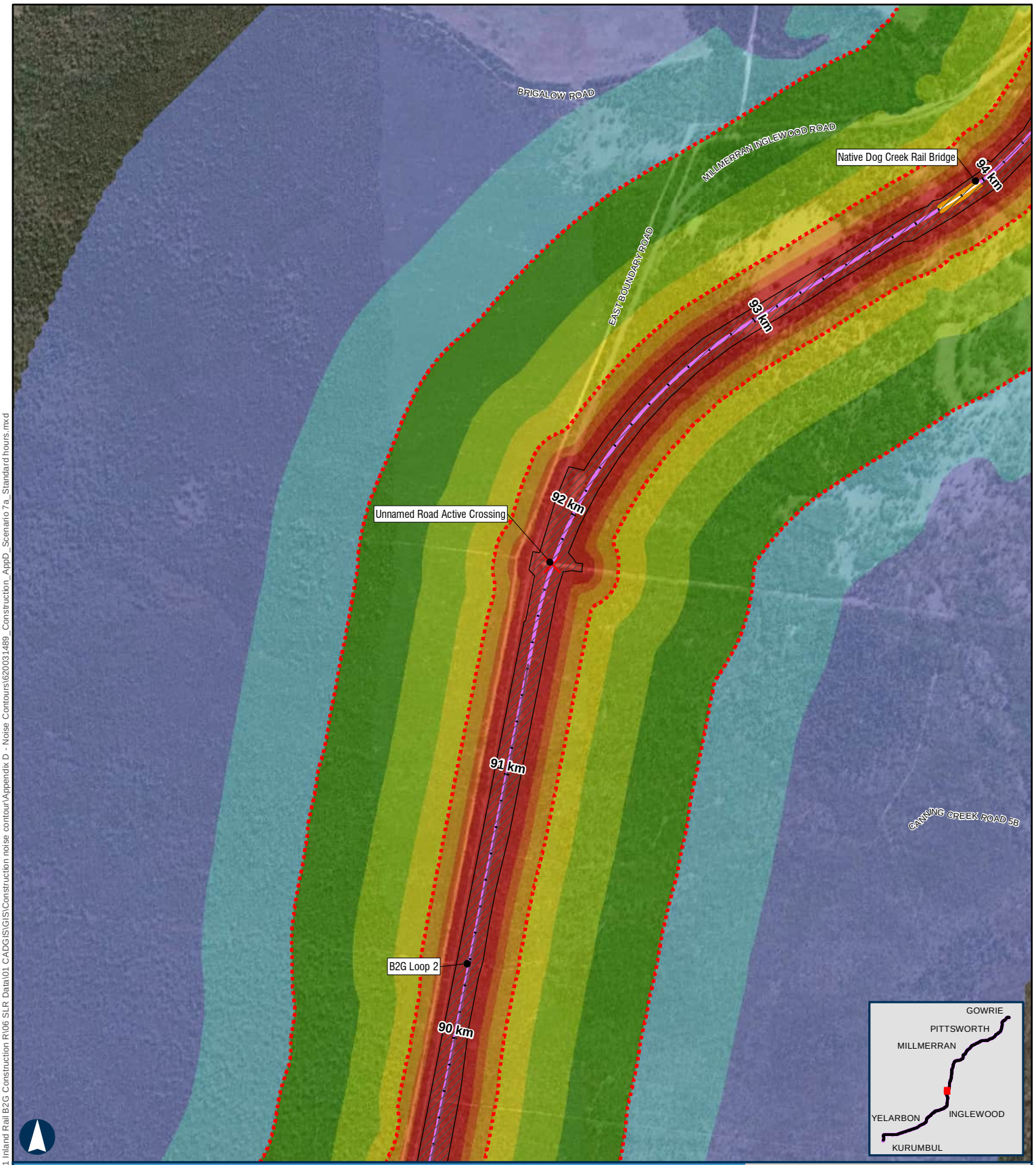

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 29 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
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- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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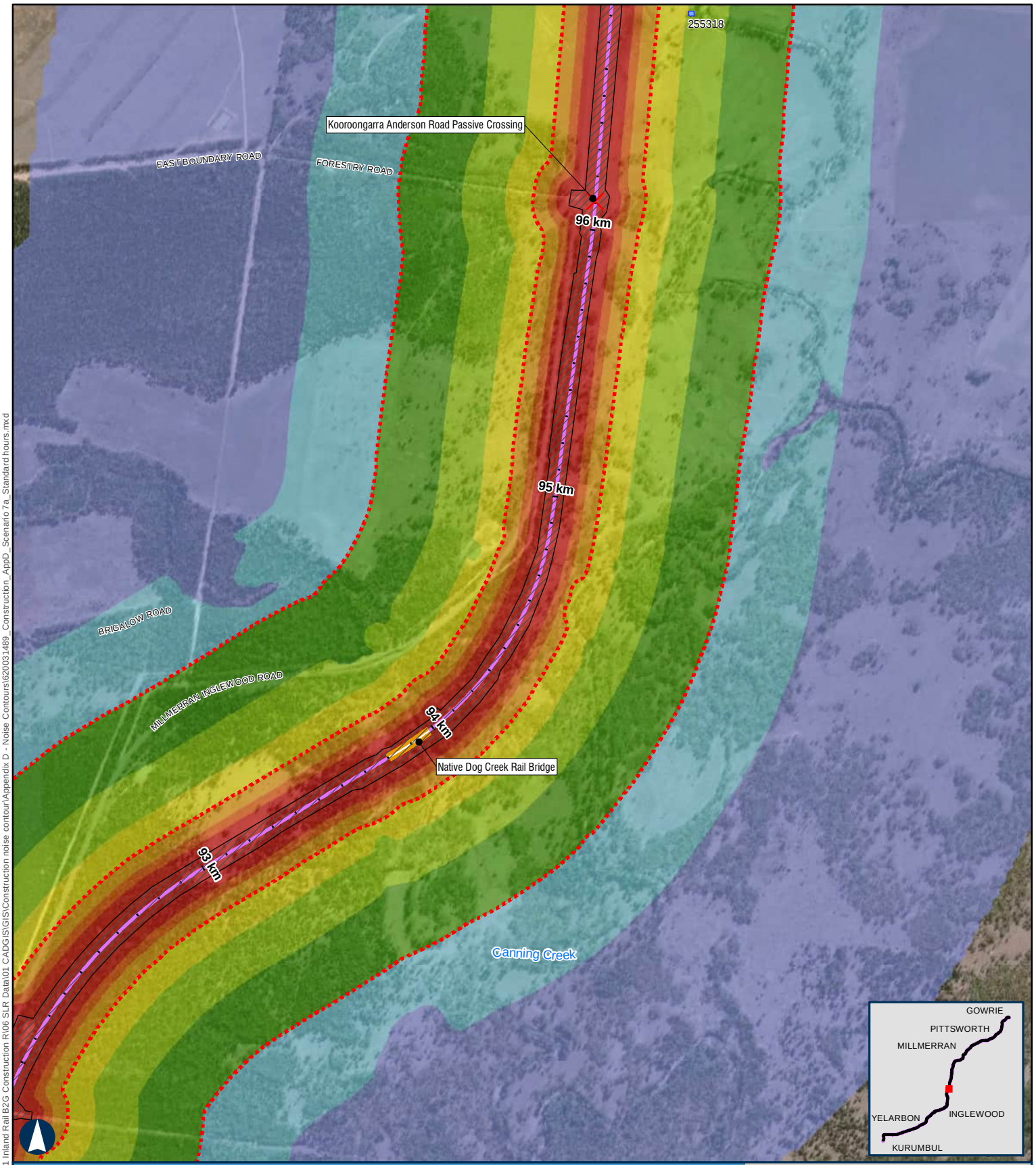

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 30 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Community
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- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
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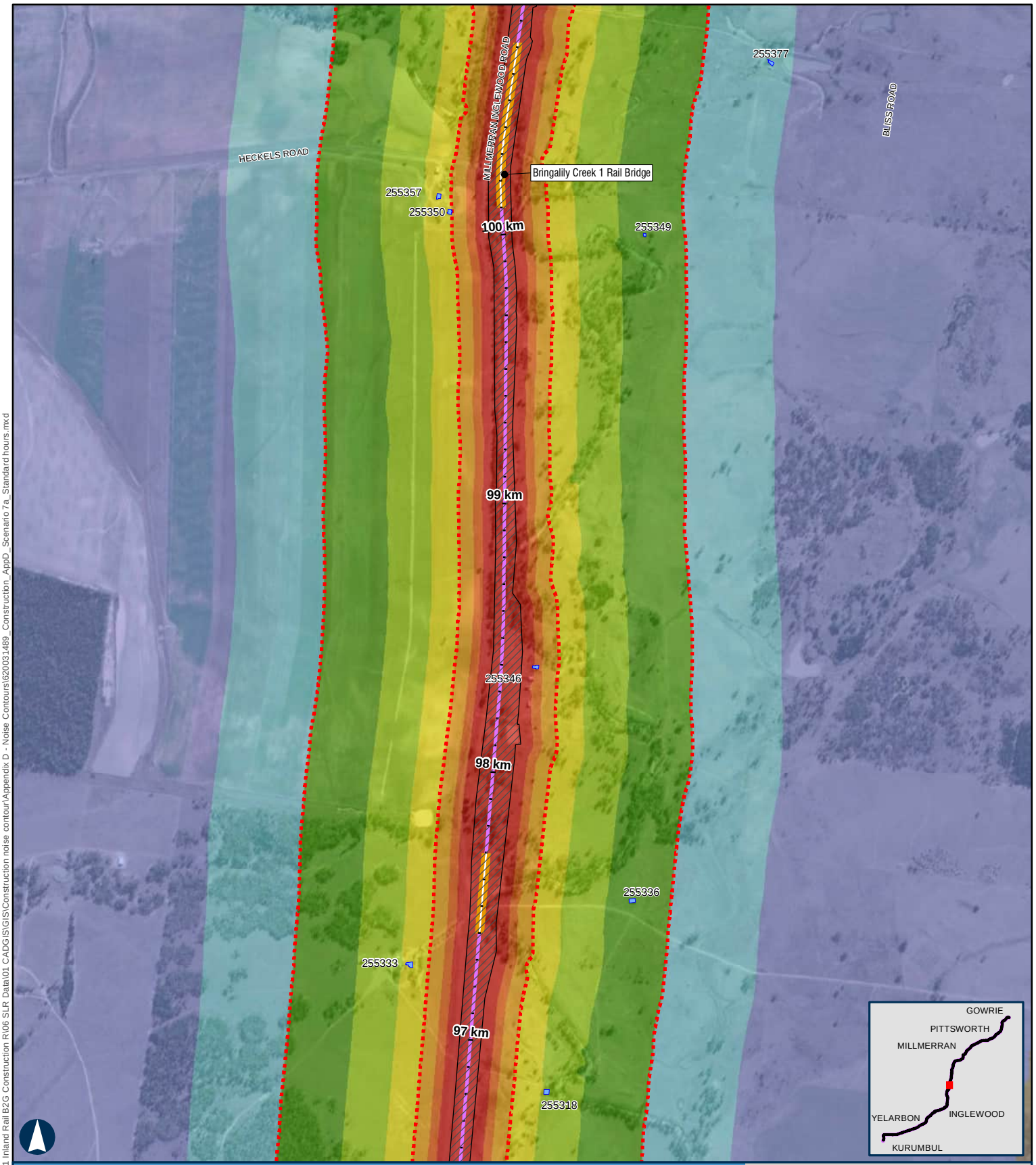

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 31 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type
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Noise Levels
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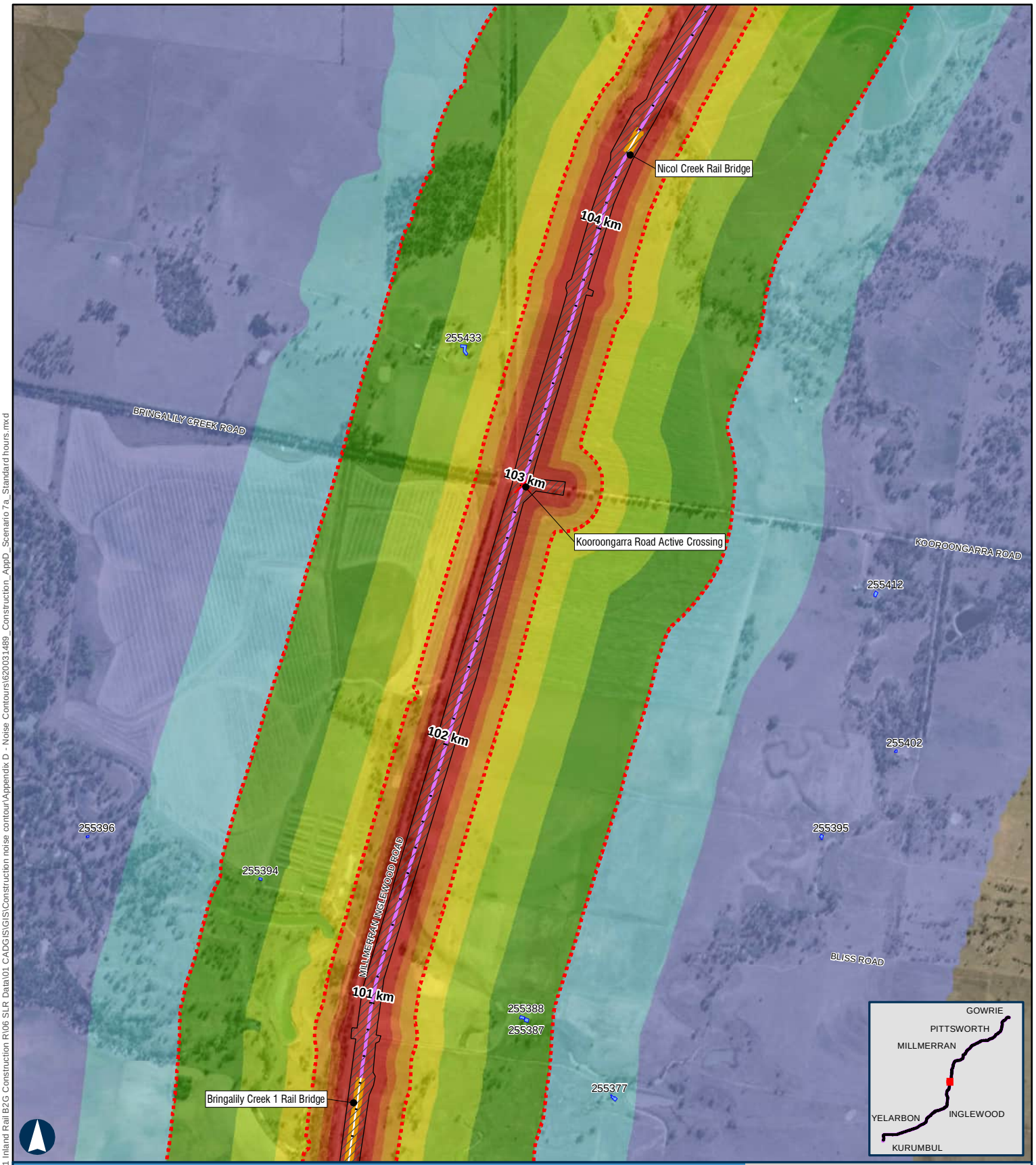

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 32 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type

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- Educational
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- Future Developments

Noise Levels

- <45 dBA
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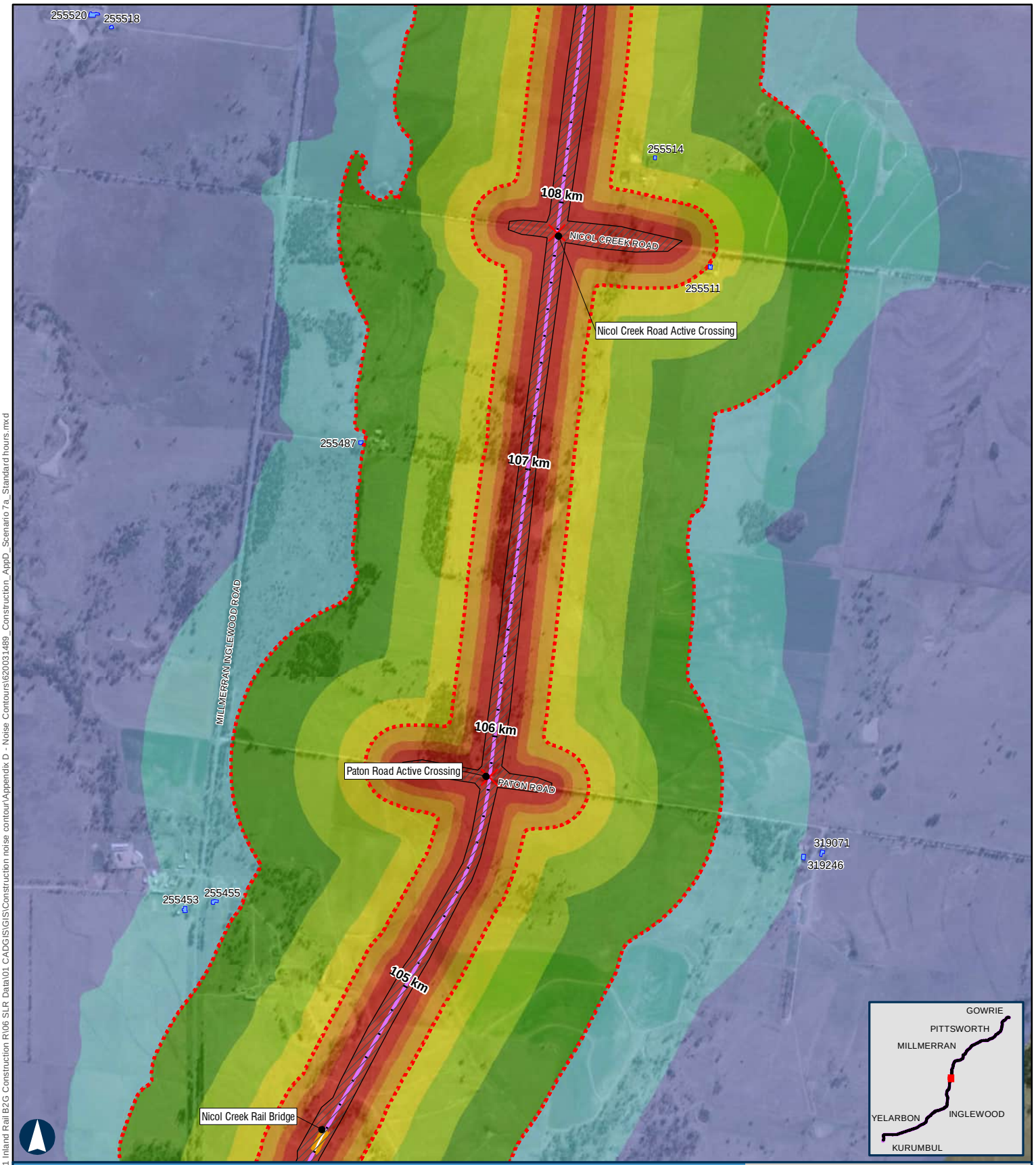

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 33 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
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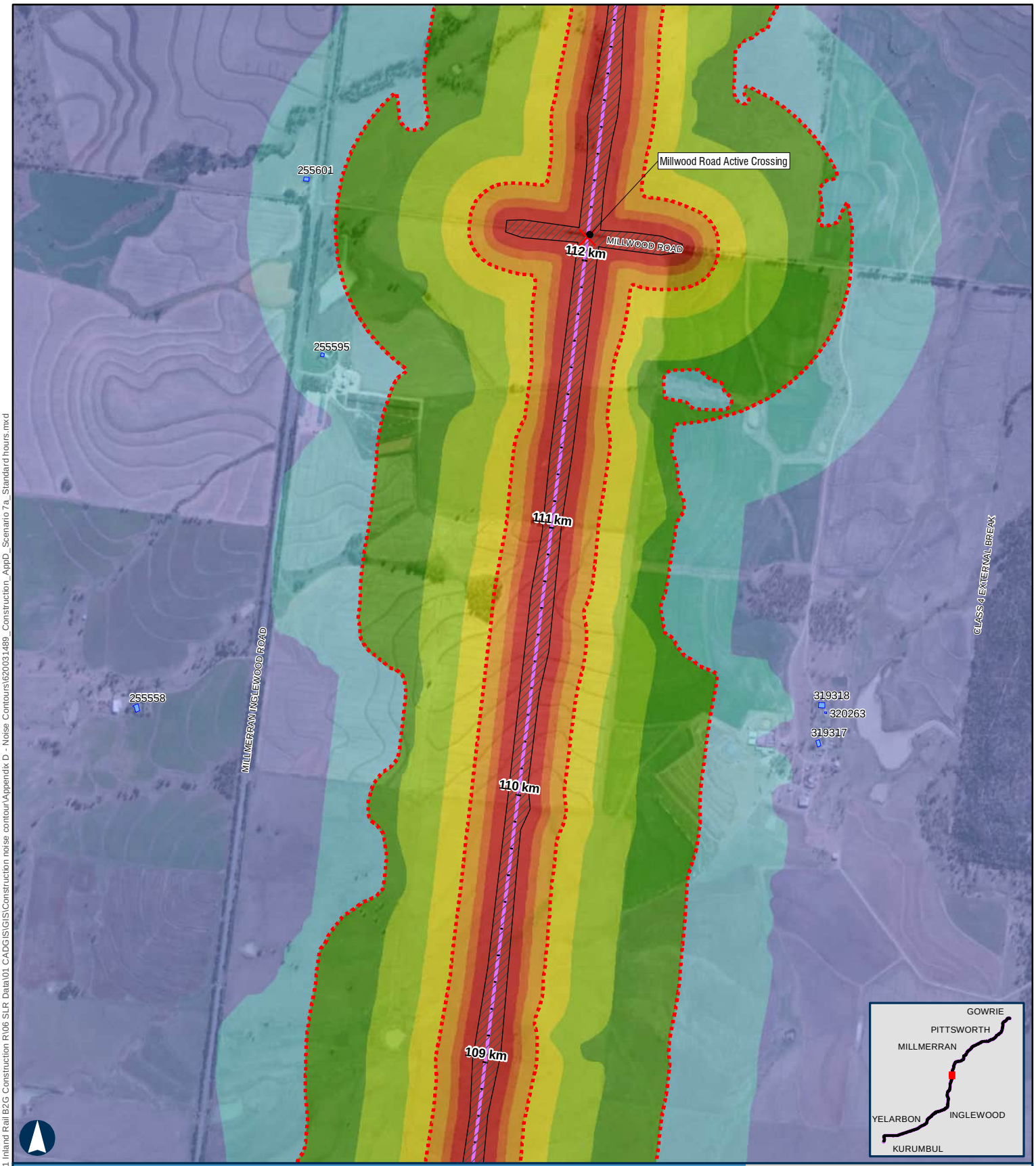

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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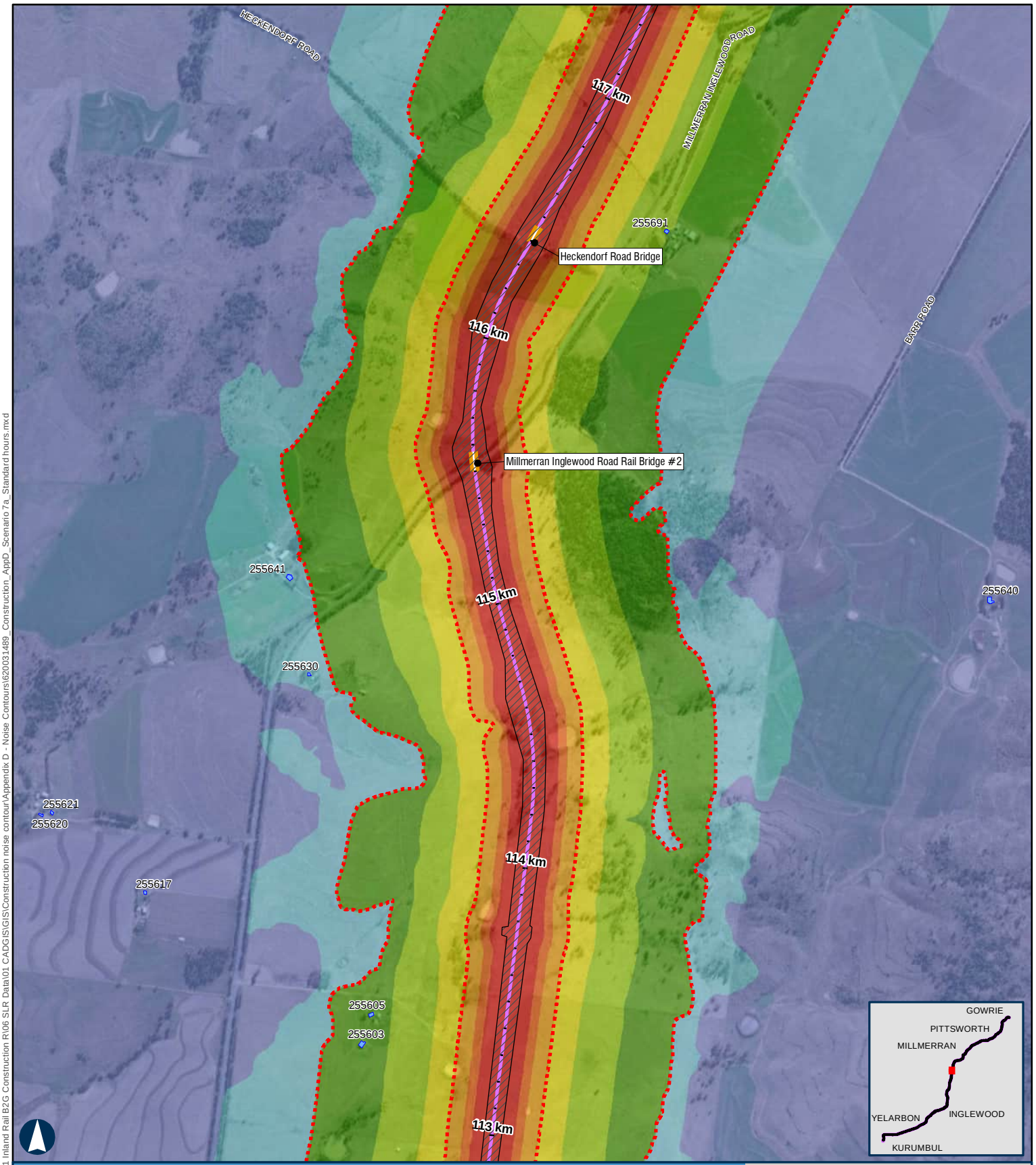

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 35 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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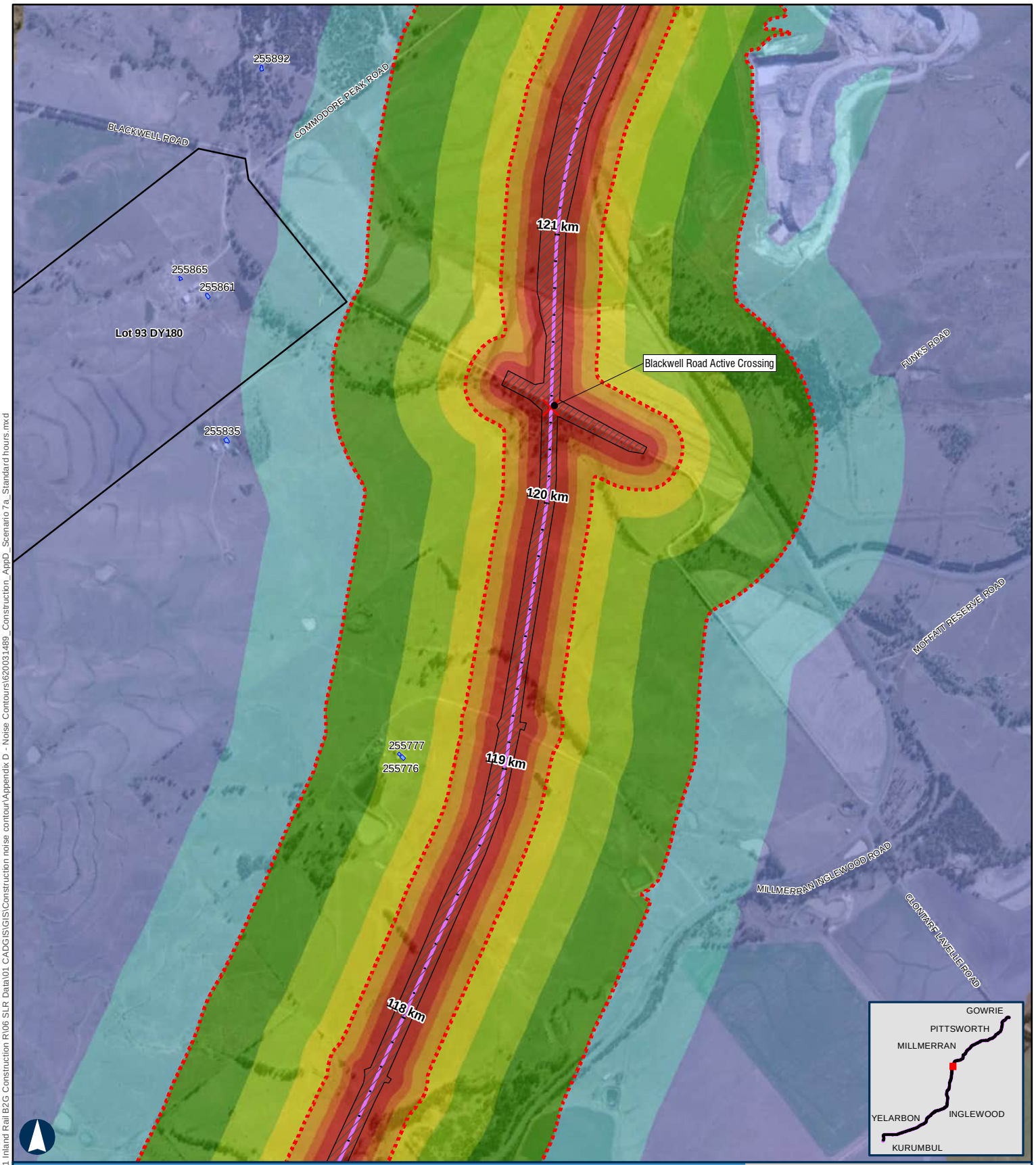

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 36 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type
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Noise Levels
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- 55-60 dBA
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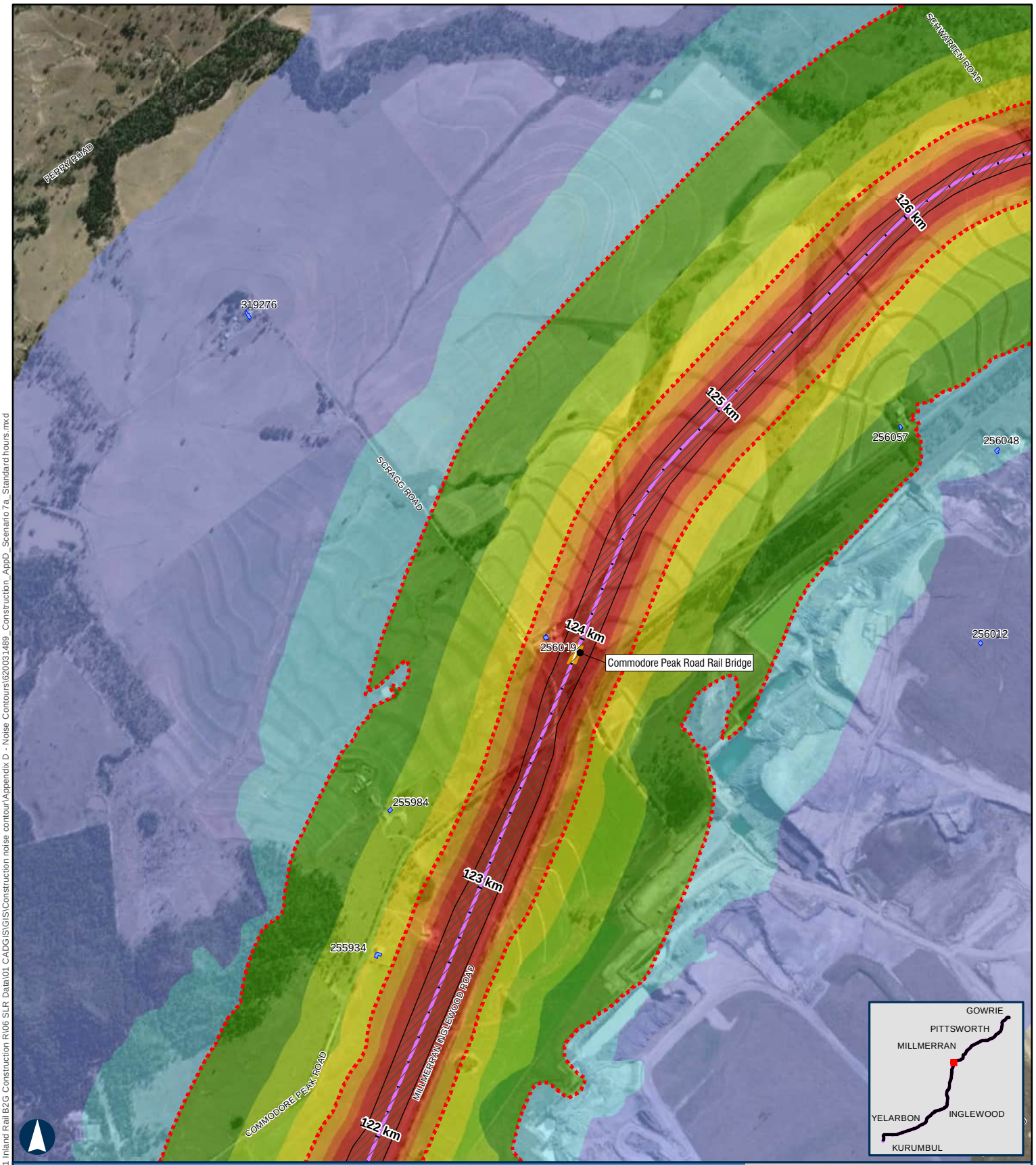

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 37 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Future Developments

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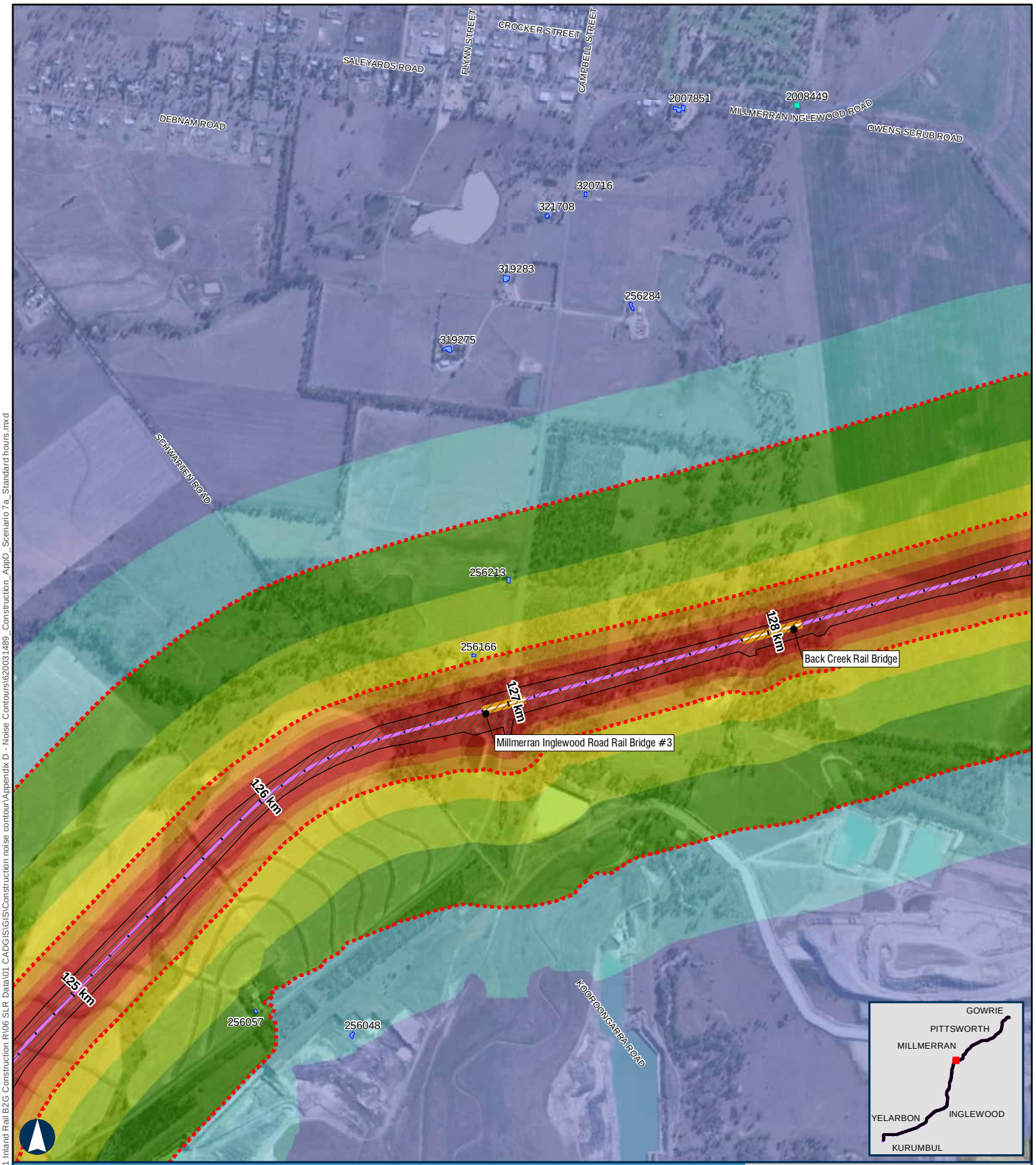

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 38 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
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- 50-55 dBA
- 55-60 dBA
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- >75 dBA

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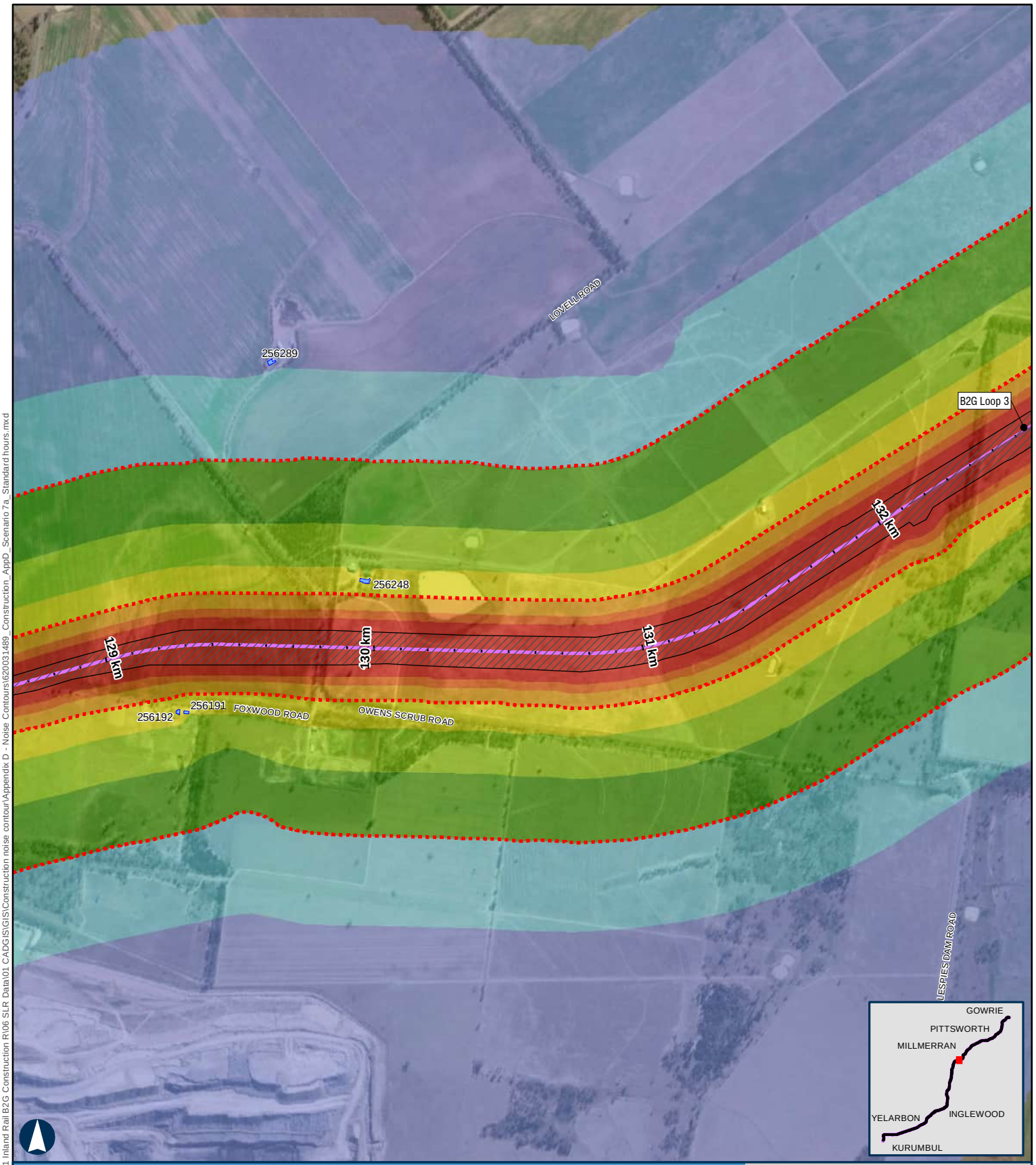

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 39 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
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Sensitive Receptor Type

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- Community
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- Future Developments

Noise Levels

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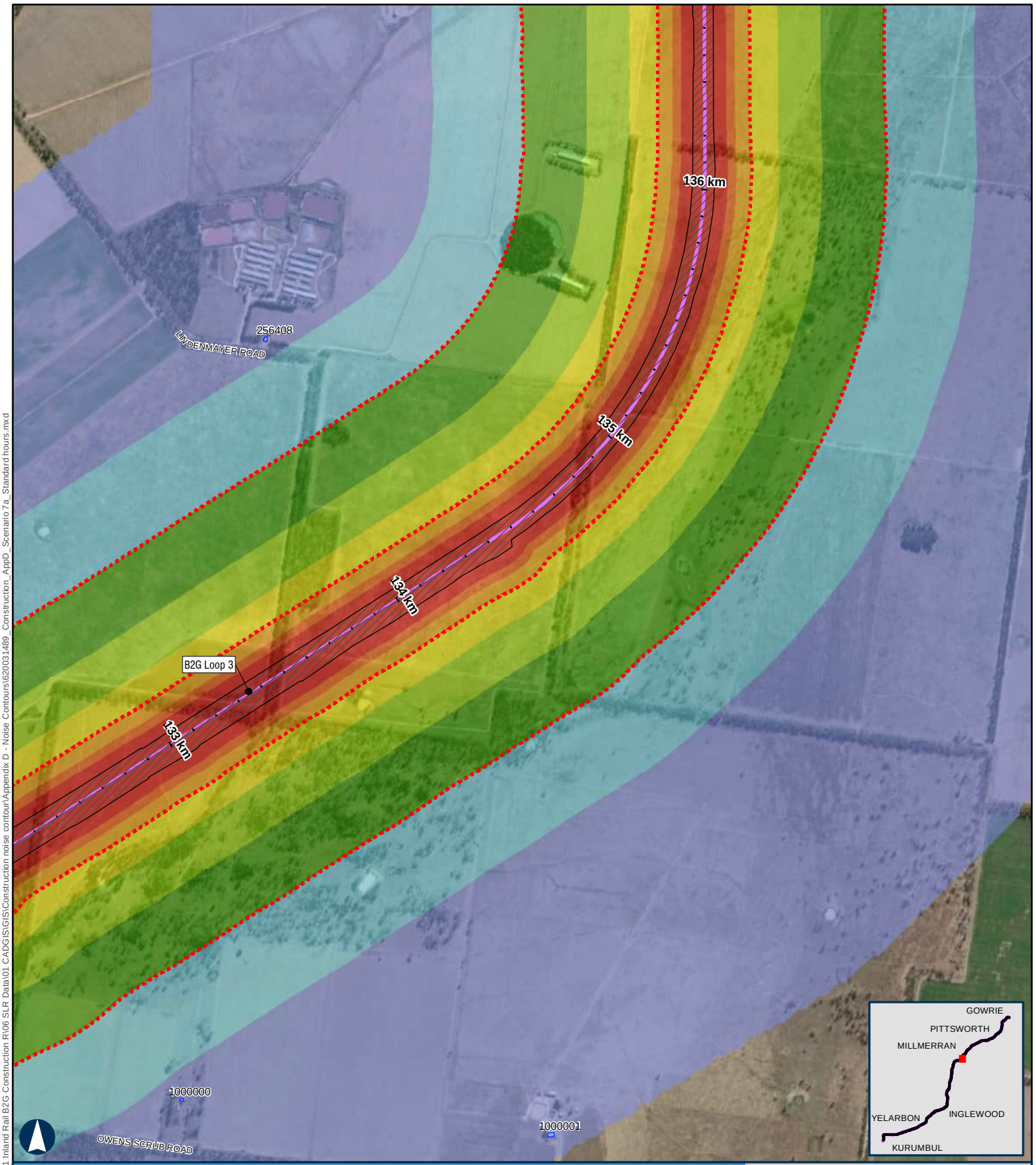

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 40 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

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Sensitive Receptor Type
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Noise Levels
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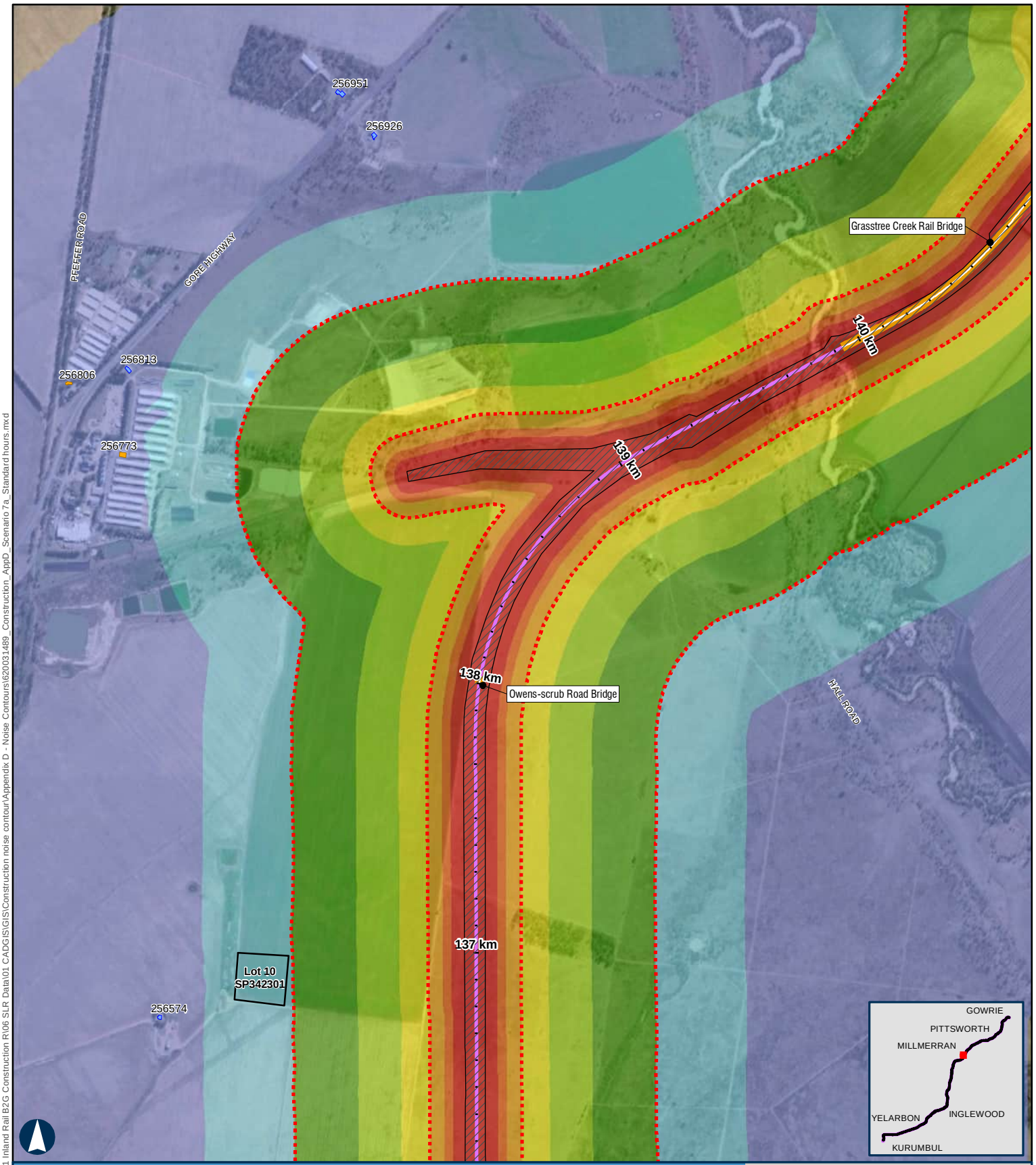

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Koala Habitat Area

Sensitive Receptor Type
- Residential
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- Future Developments

Noise Levels
- <45 dBA
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- 50-55 dBA
- 55-60 dBA
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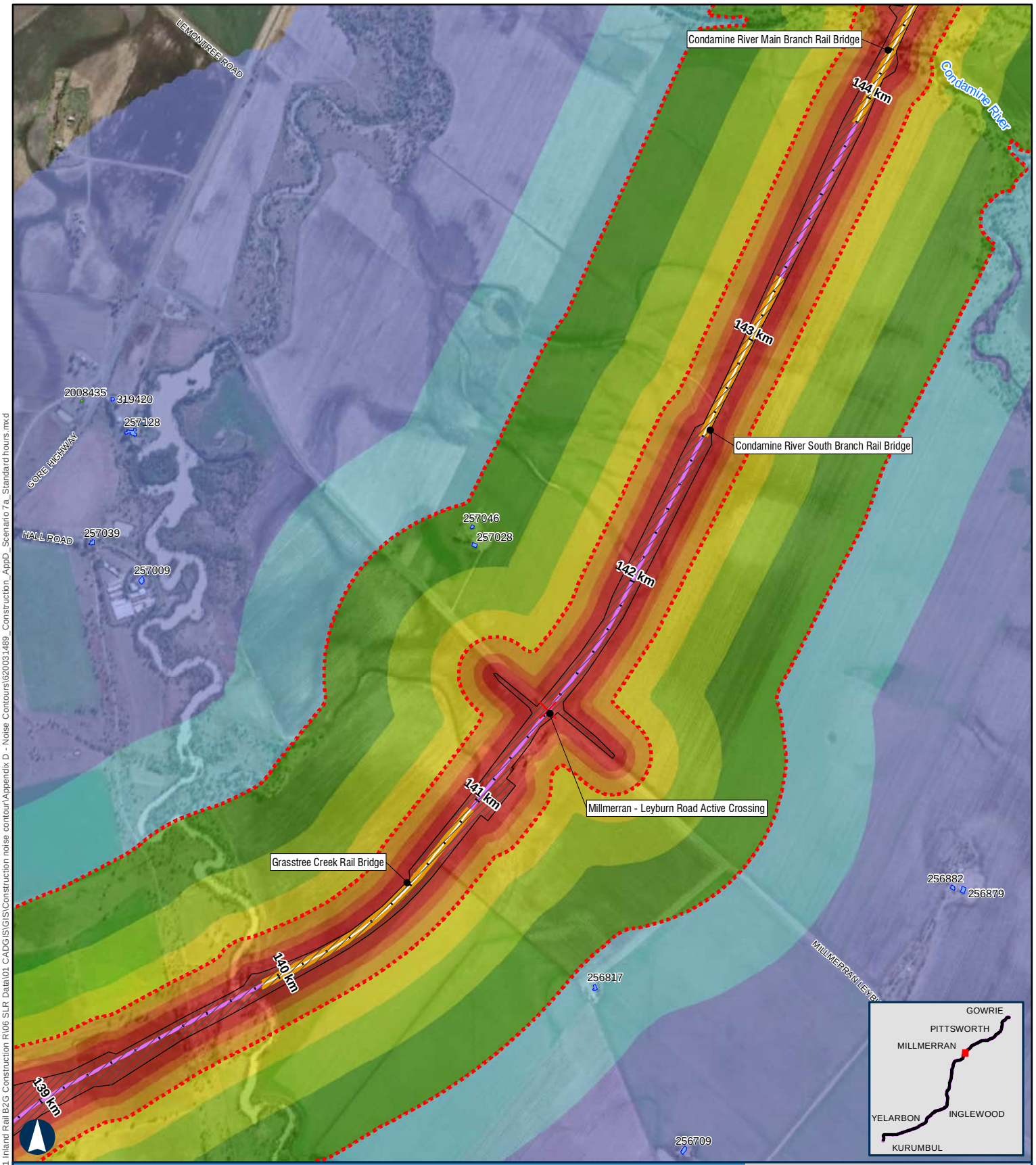

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 42 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
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- Parkland
- Future Developments

Noise Levels

- <45 dBA
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- 50-55 dBA
- 55-60 dBA
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- 70-75 dBA
- >75 dBA

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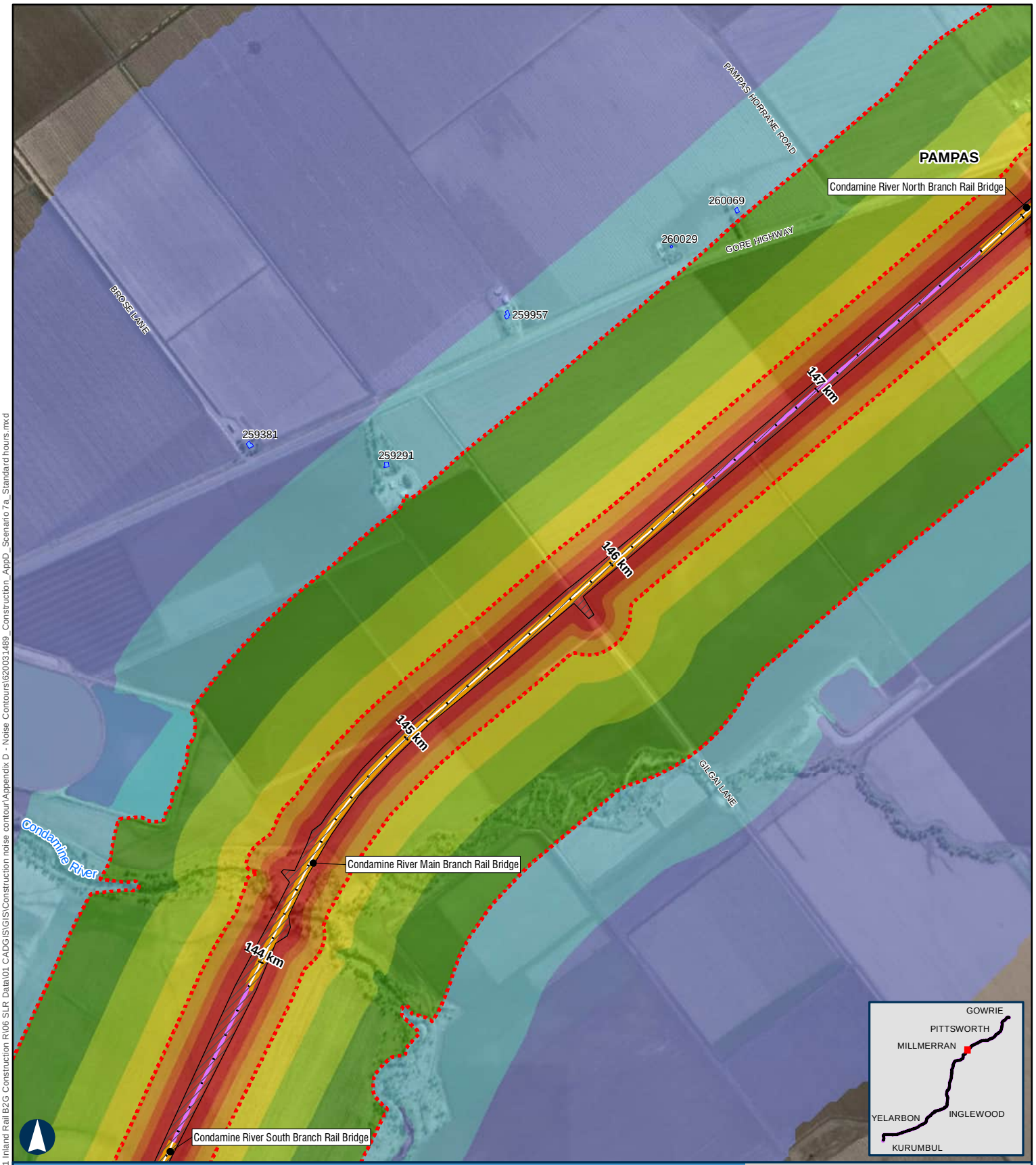

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 43 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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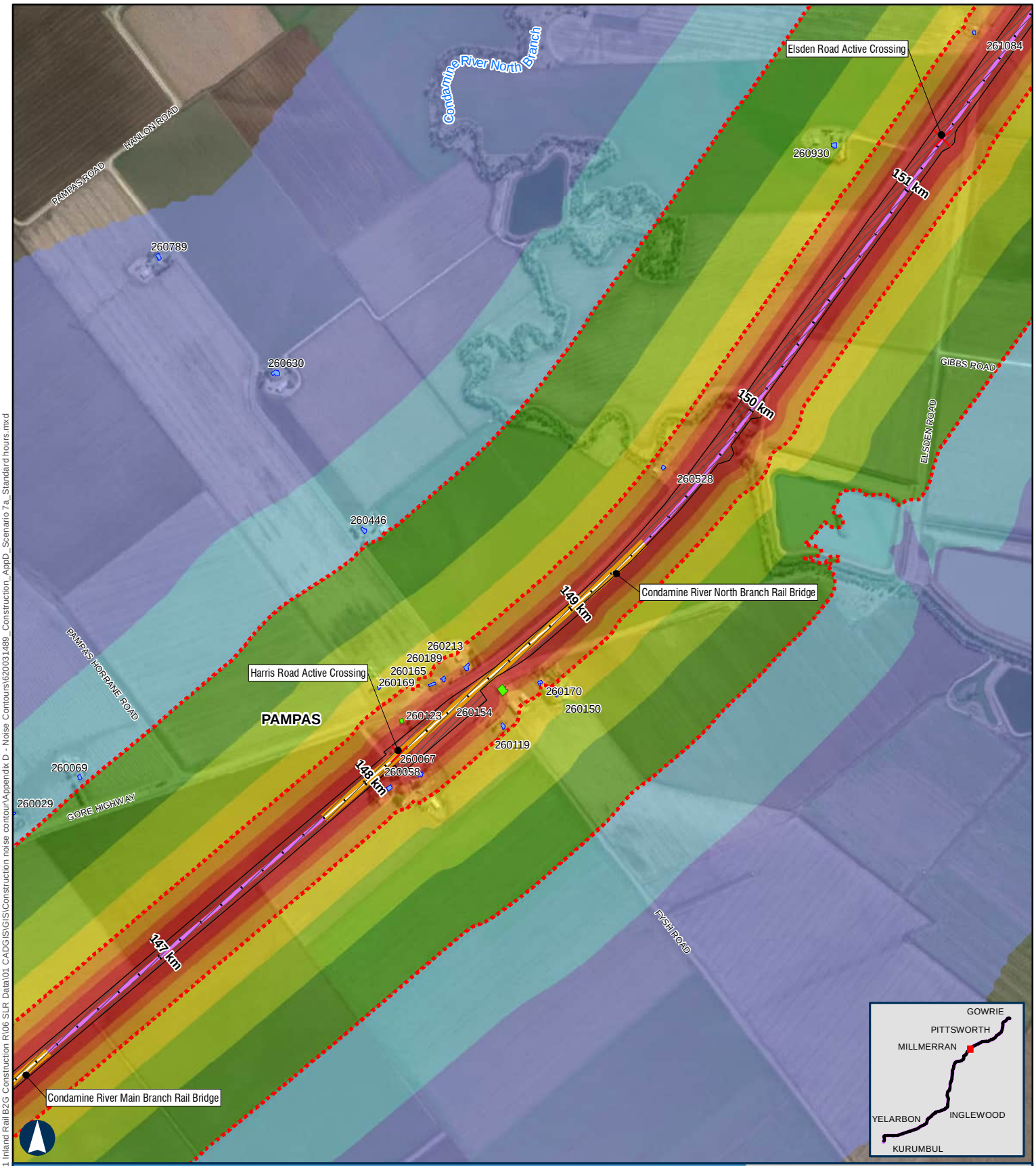

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 44 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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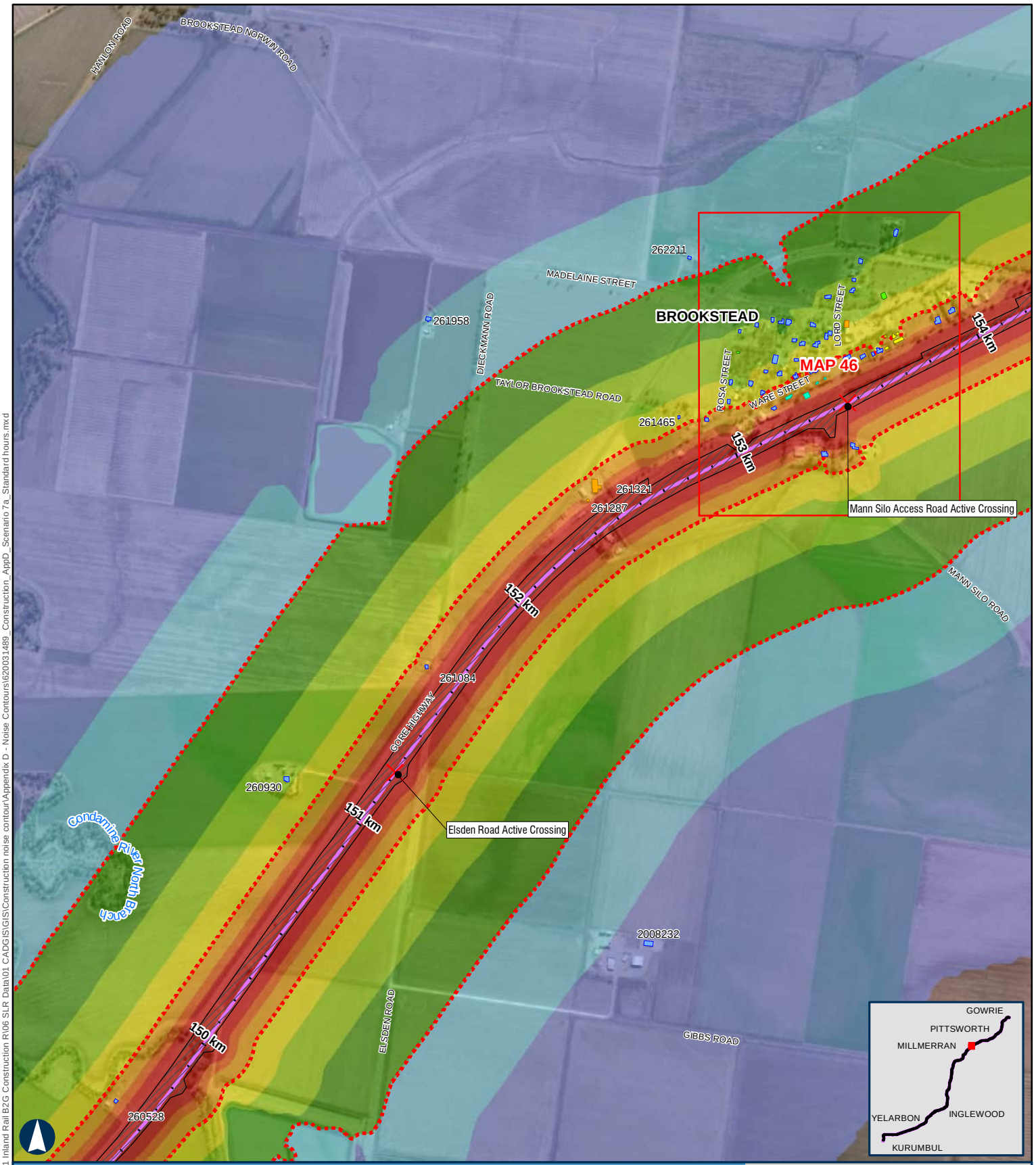

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 45 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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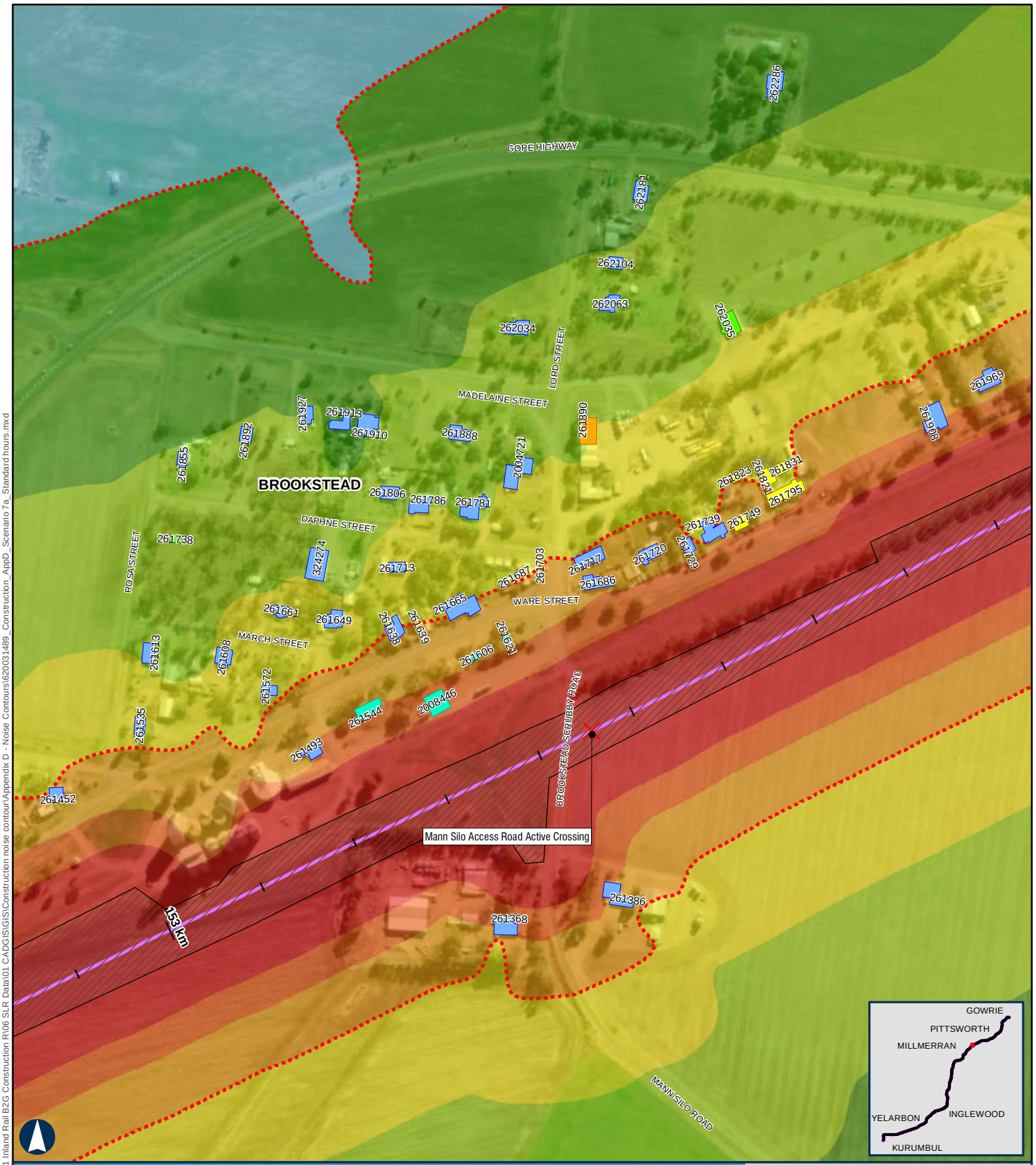

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 46 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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Sensitive Receptor Type
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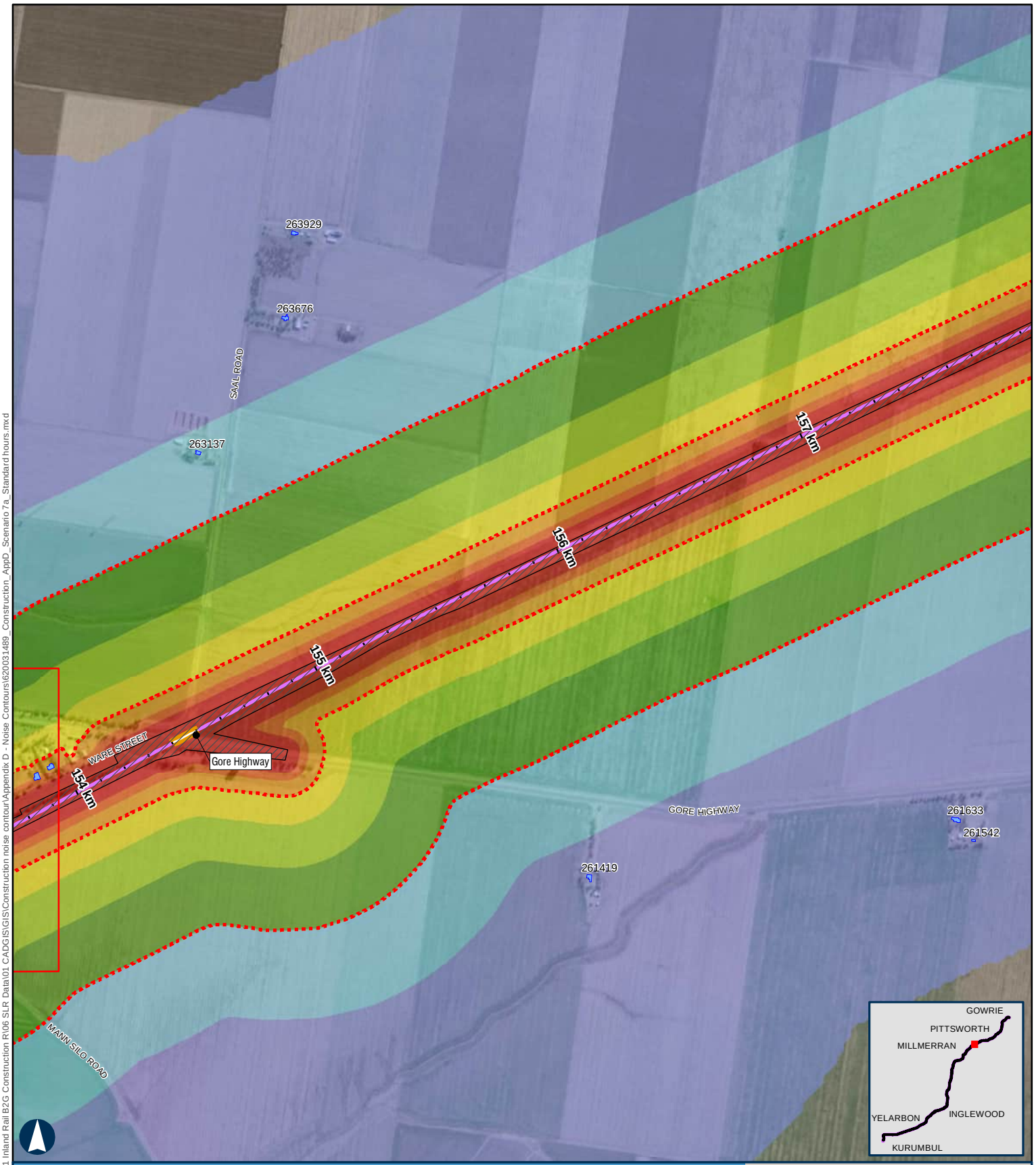

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 47 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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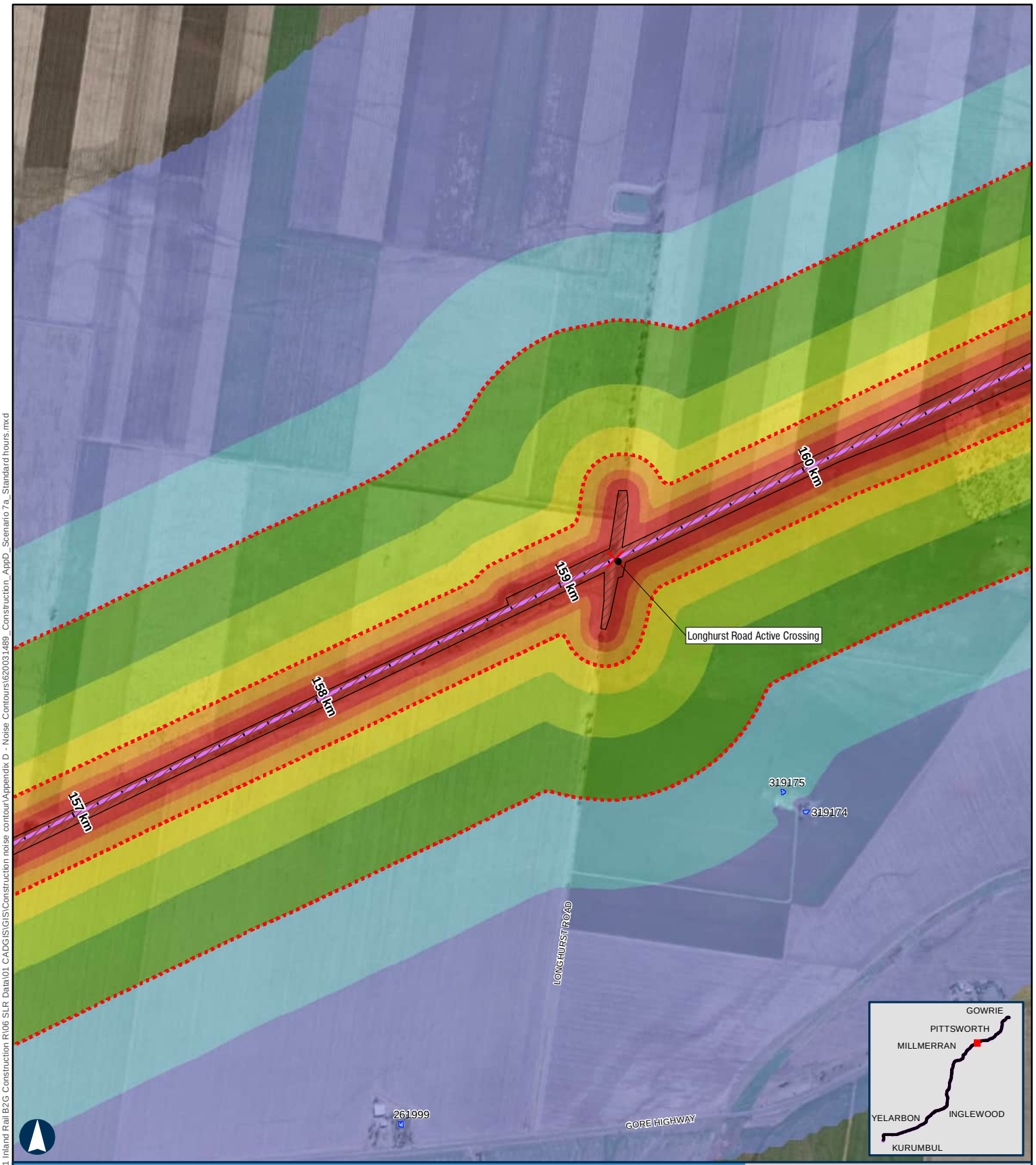

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 48 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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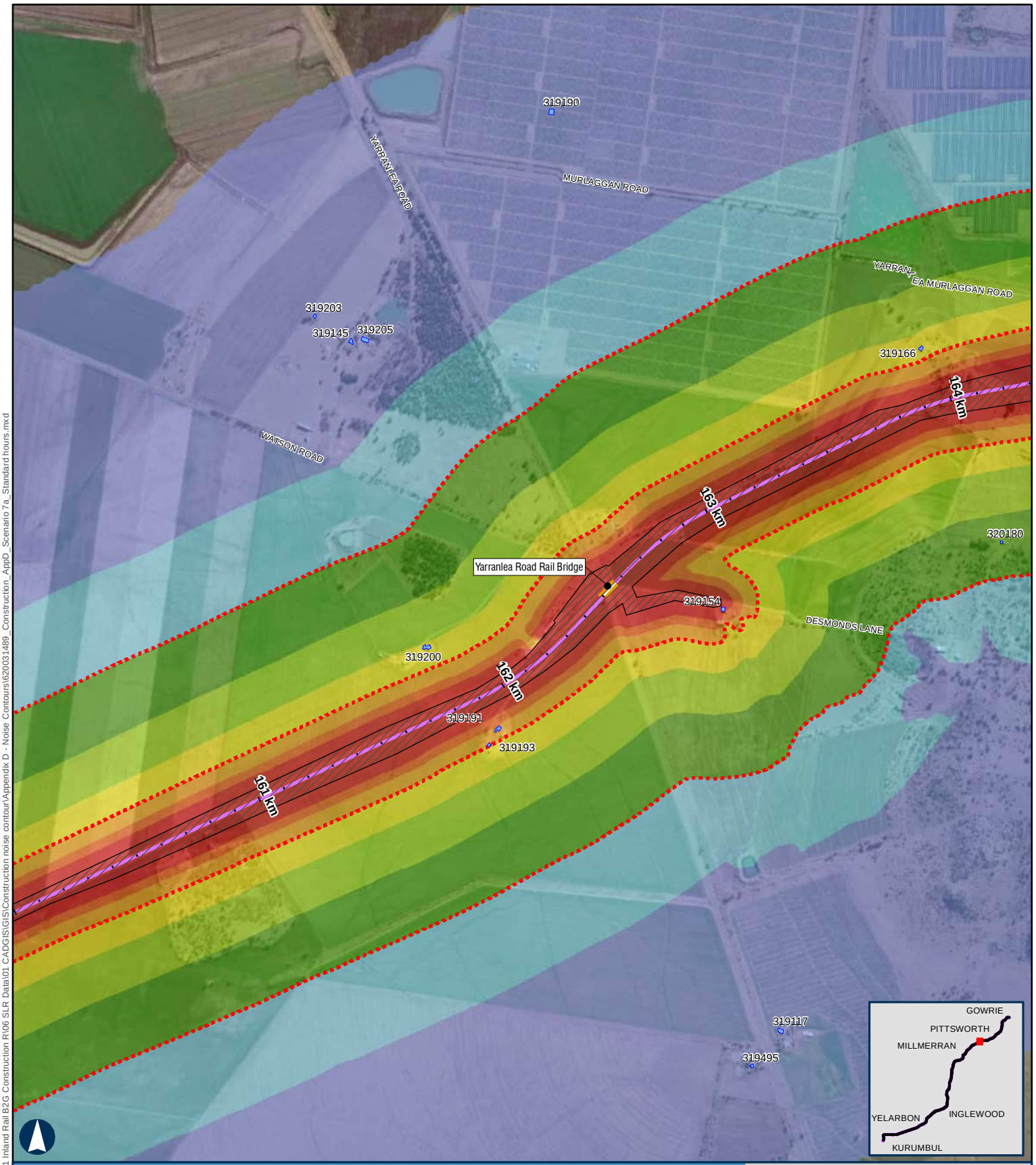

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 49 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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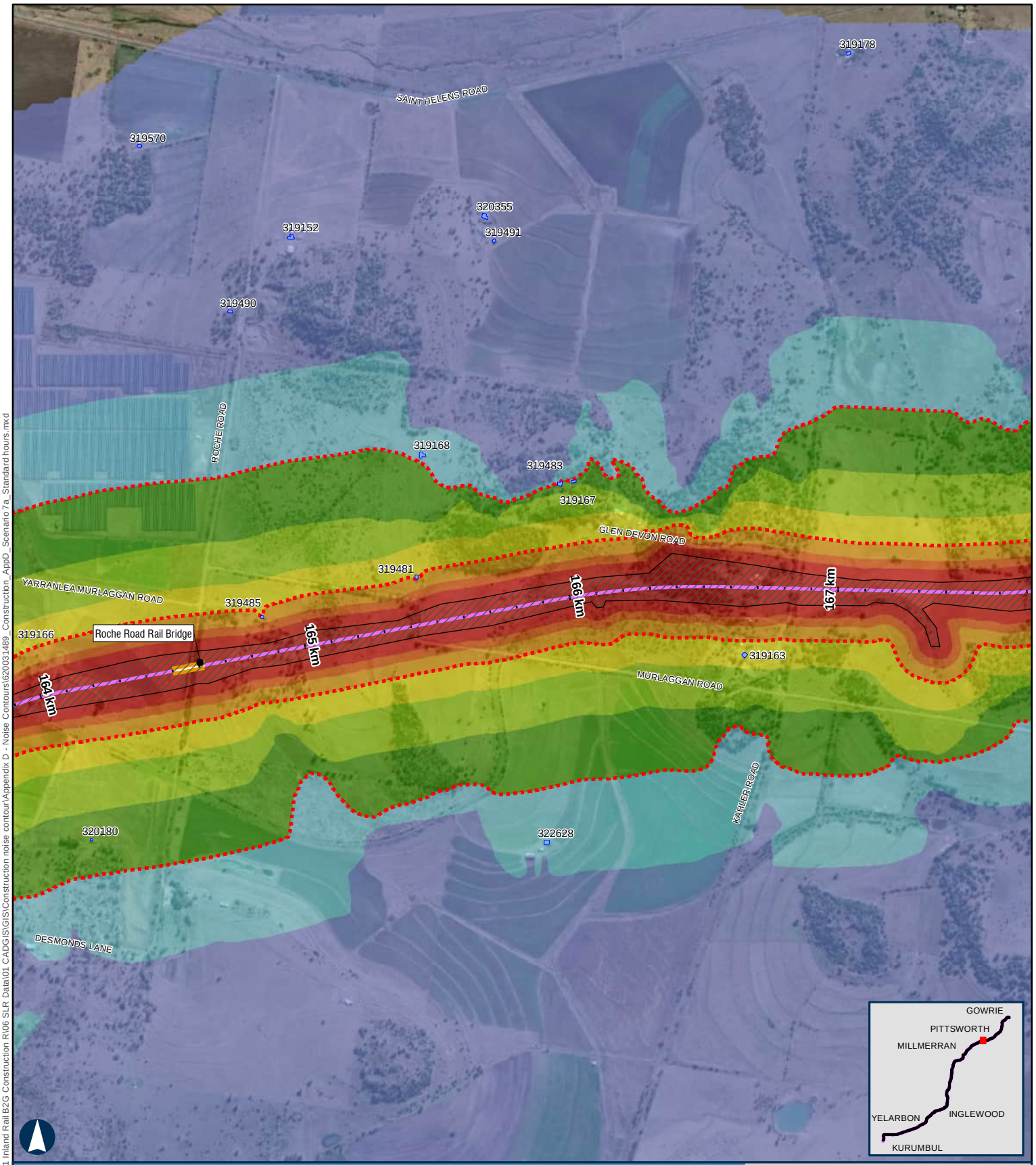

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 50 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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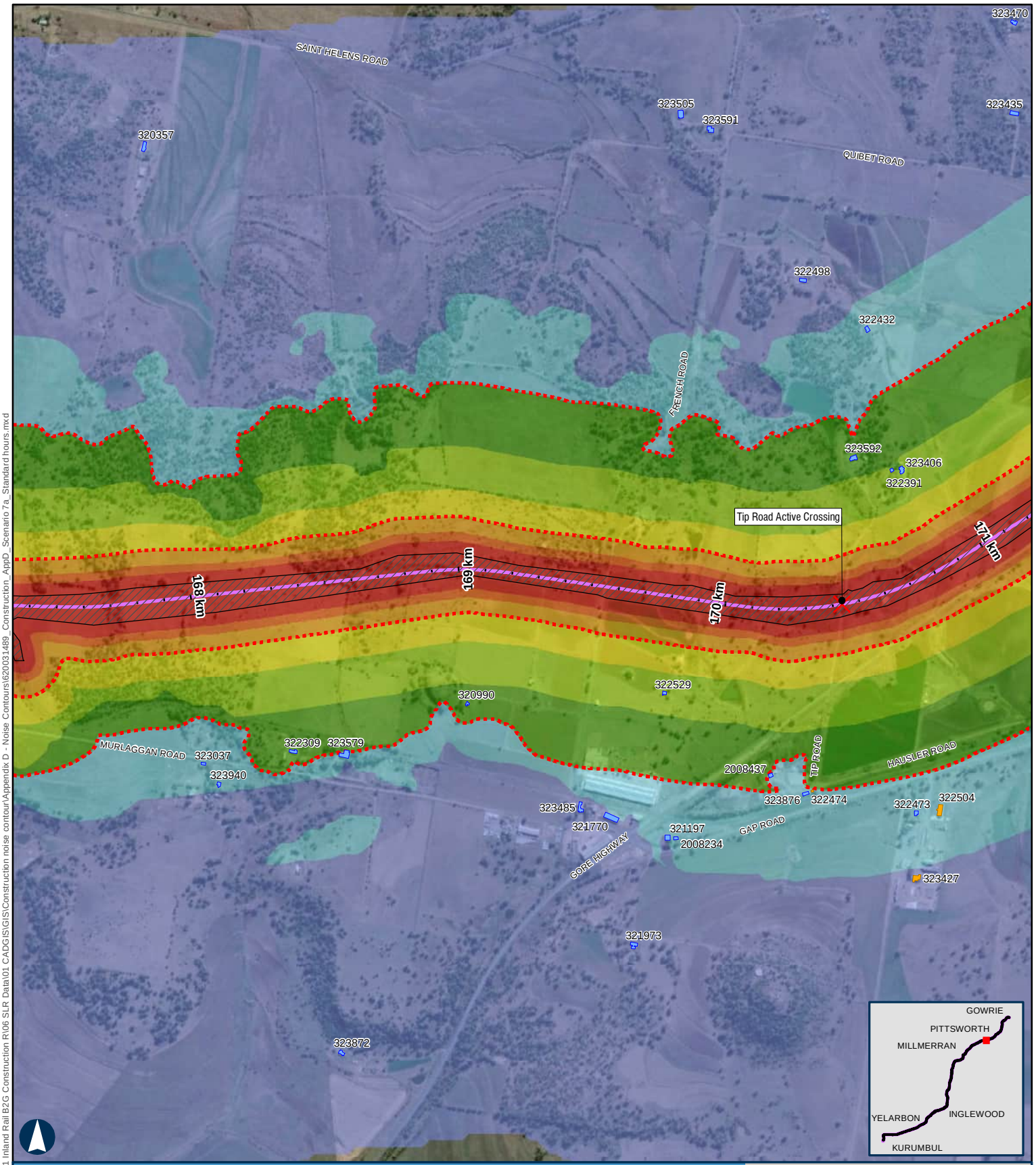

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 51 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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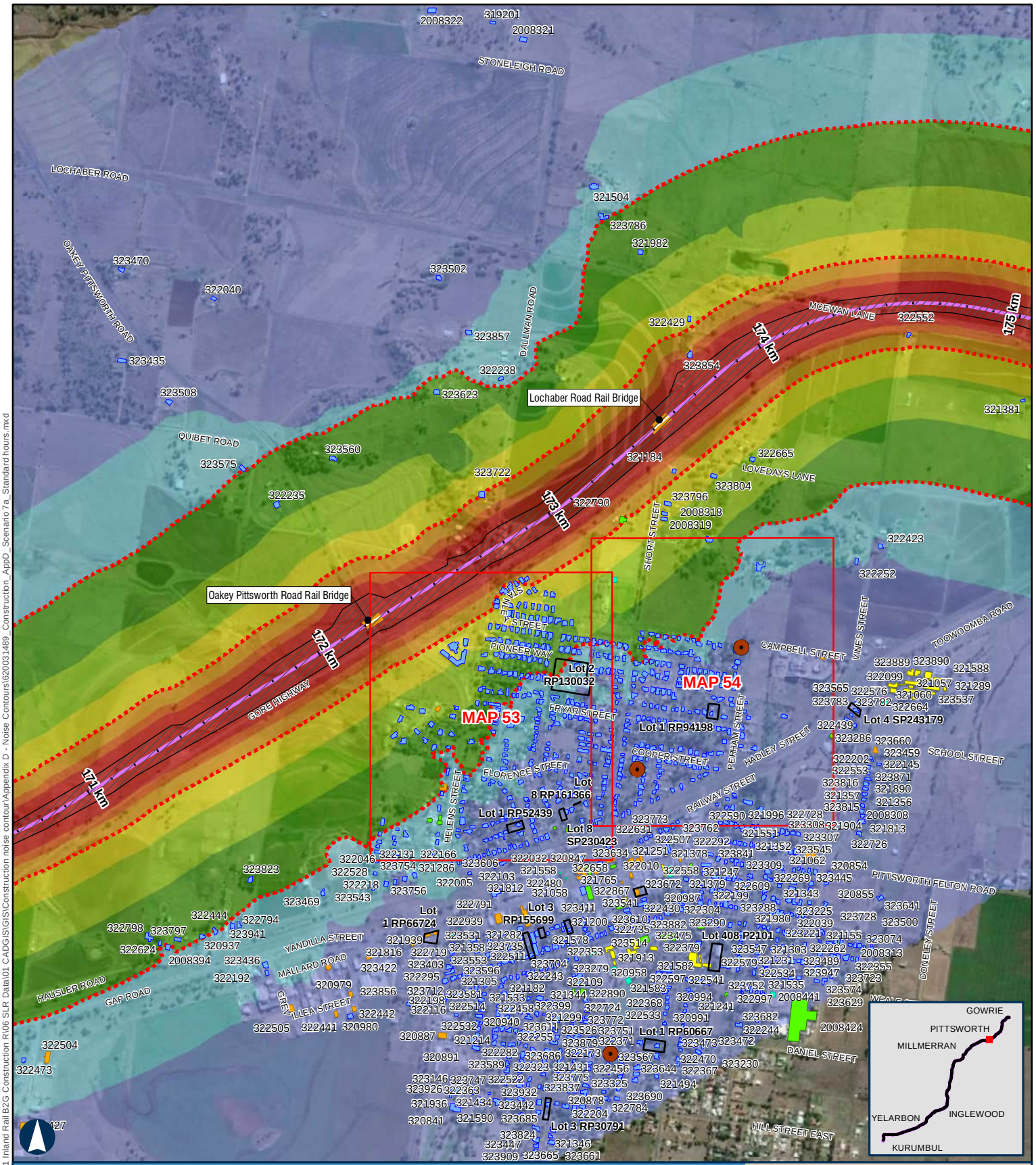

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 52 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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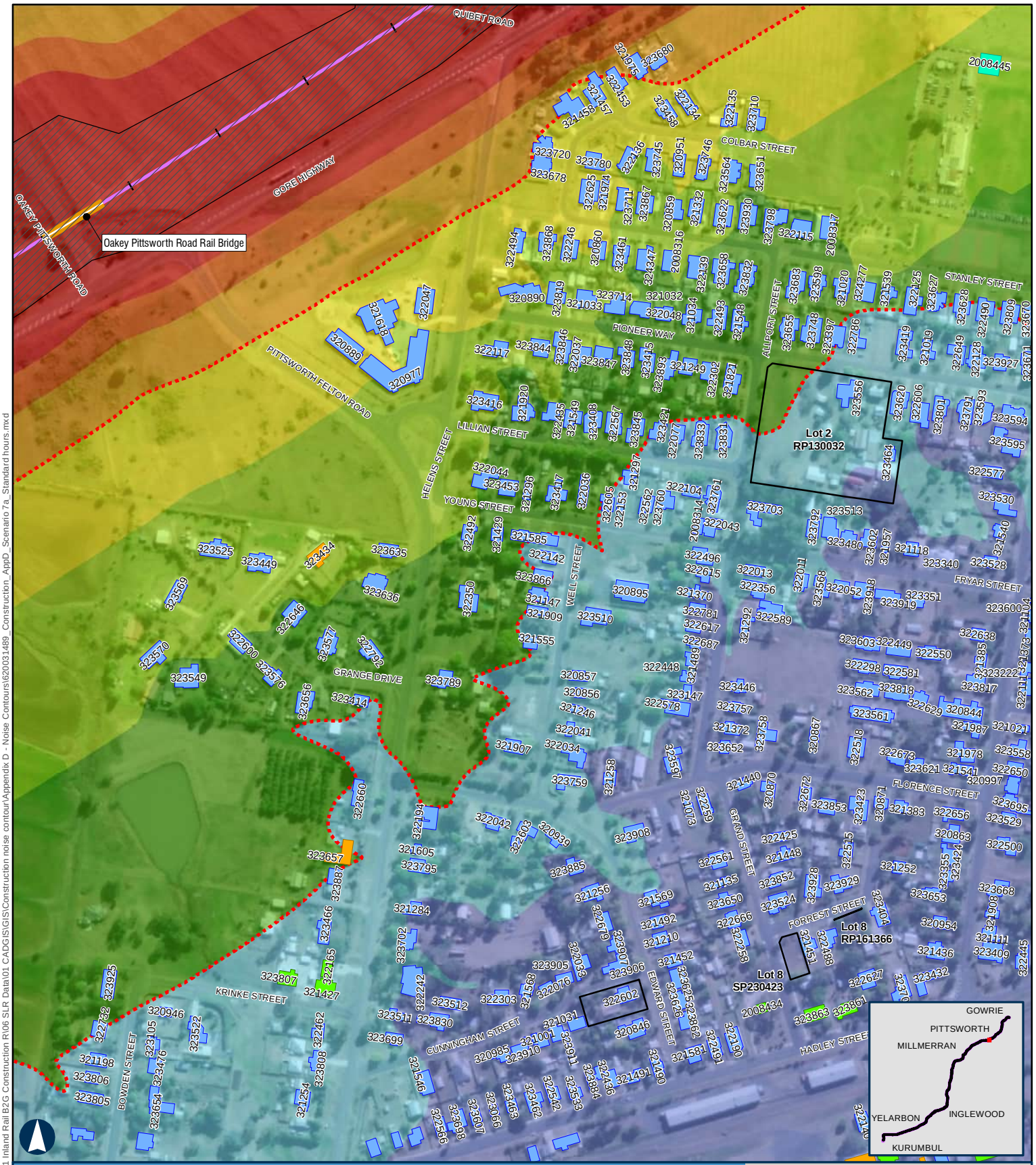

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 53 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 54 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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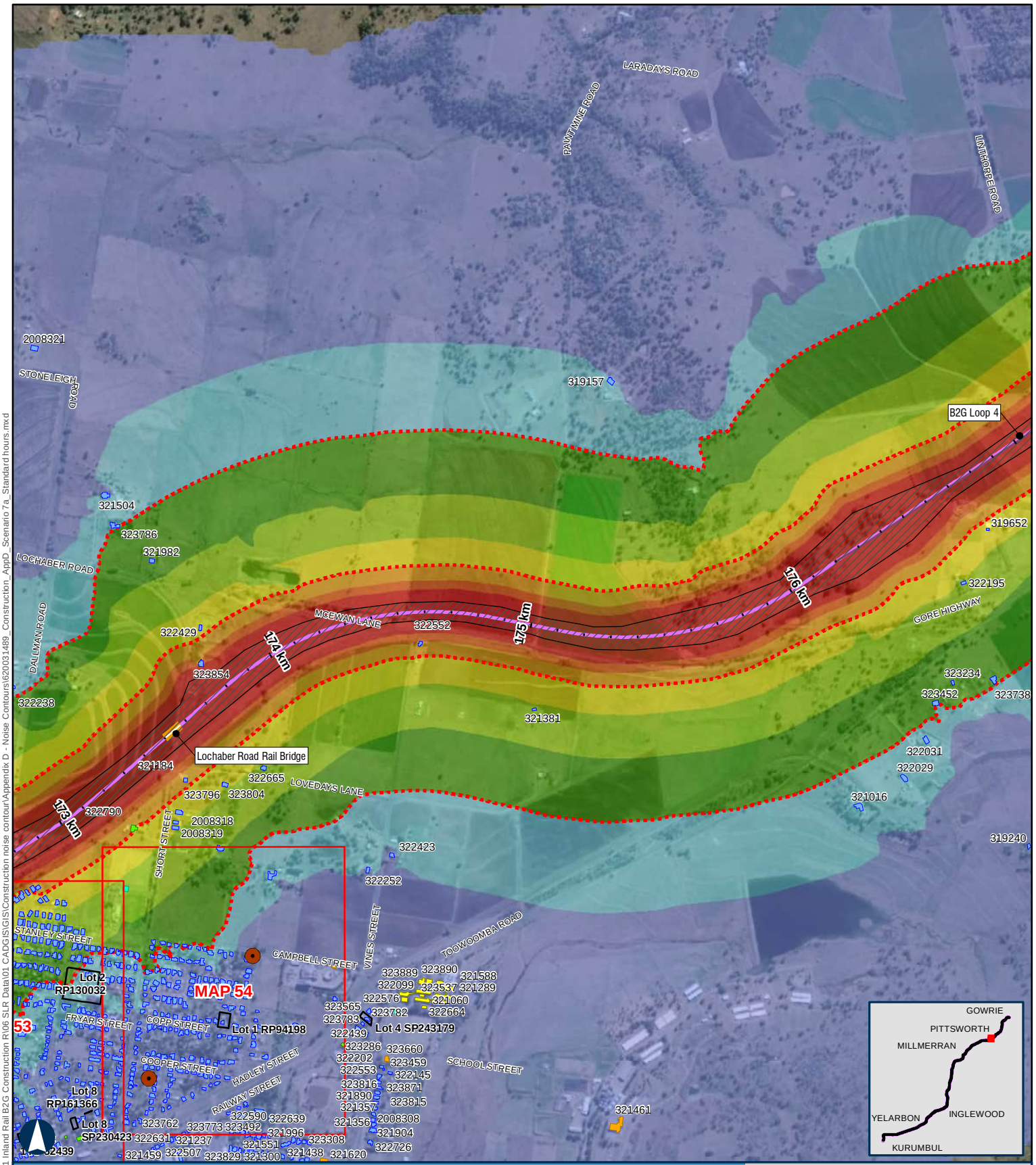

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 55 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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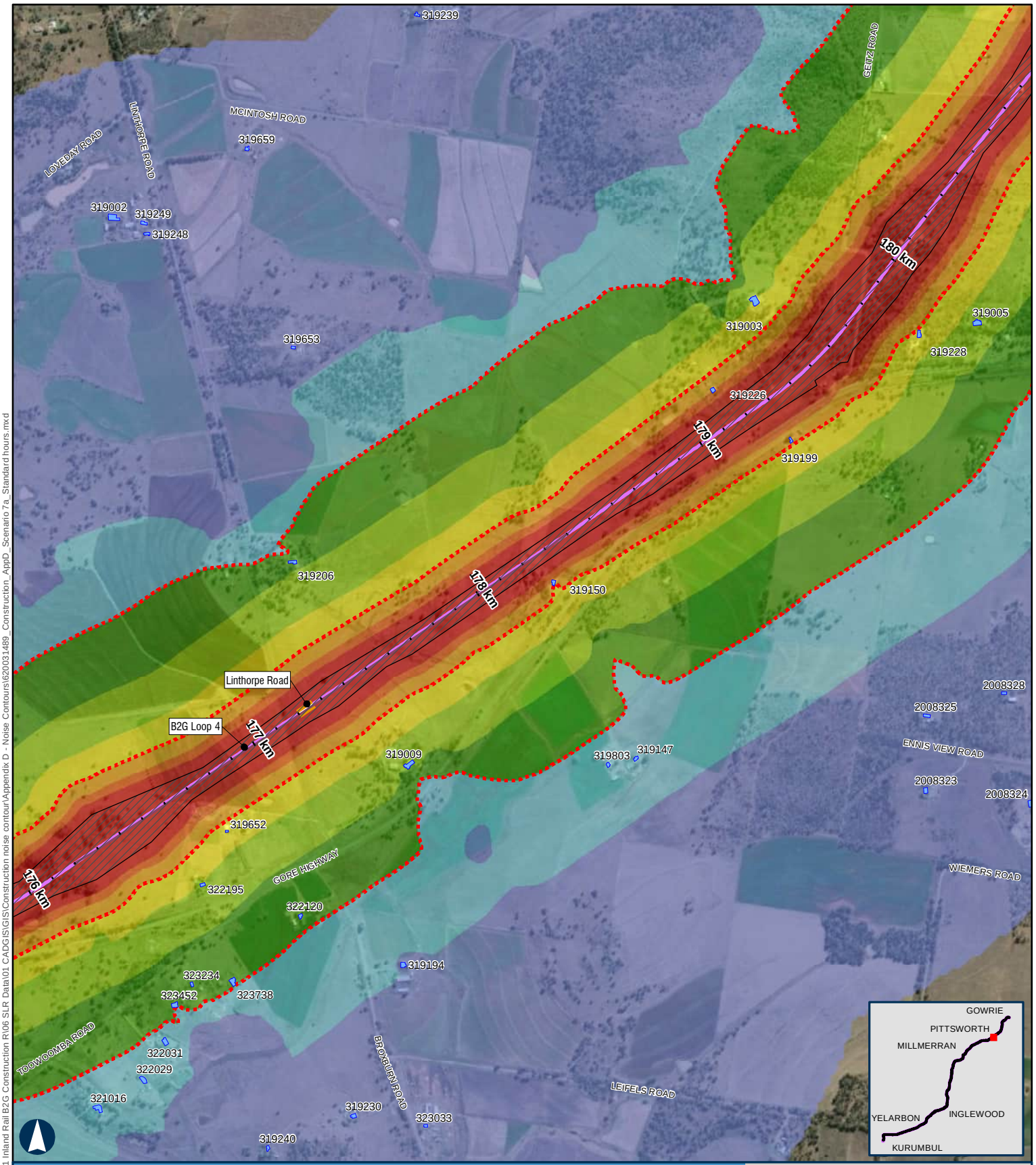

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 56 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
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- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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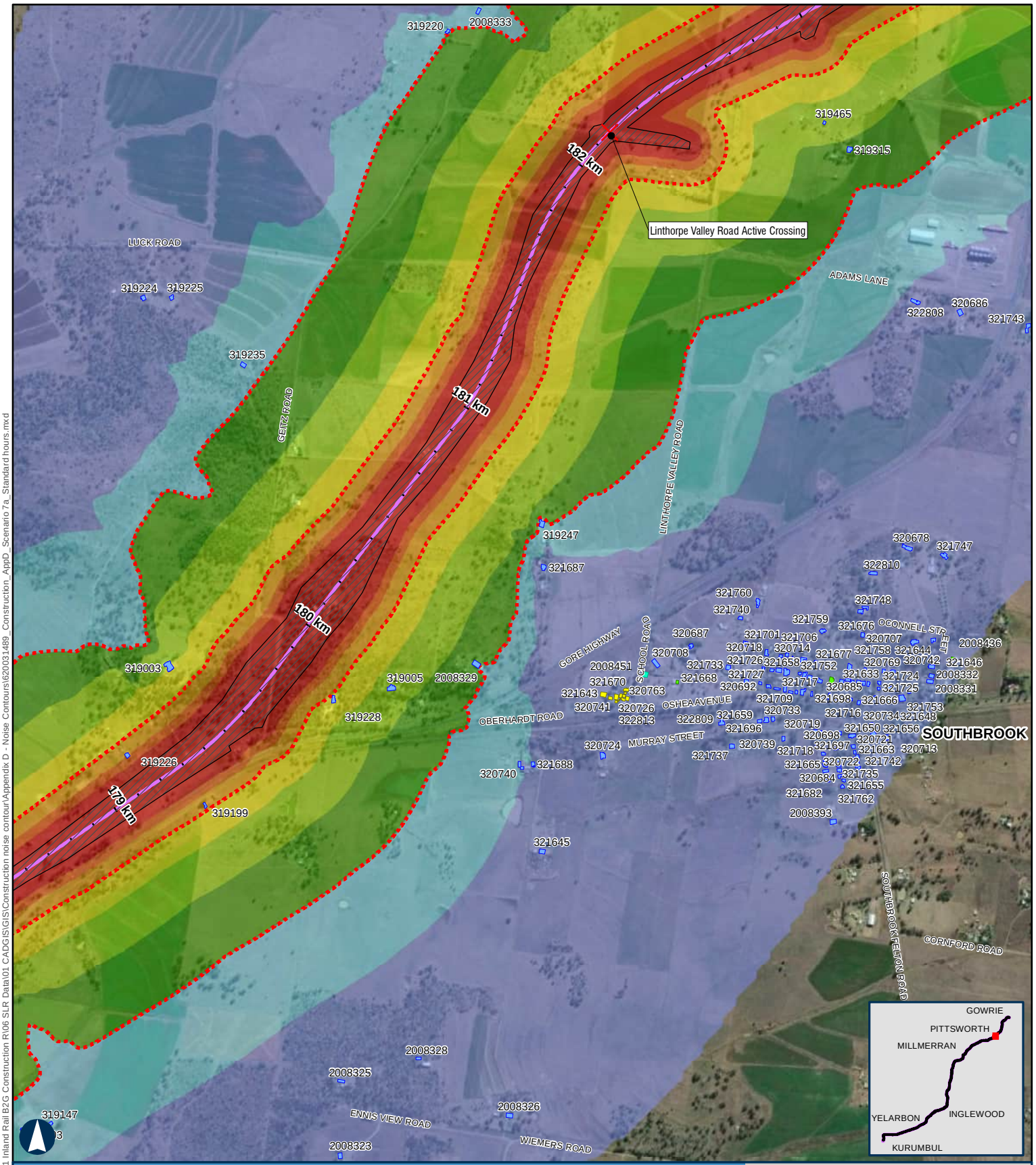

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 57 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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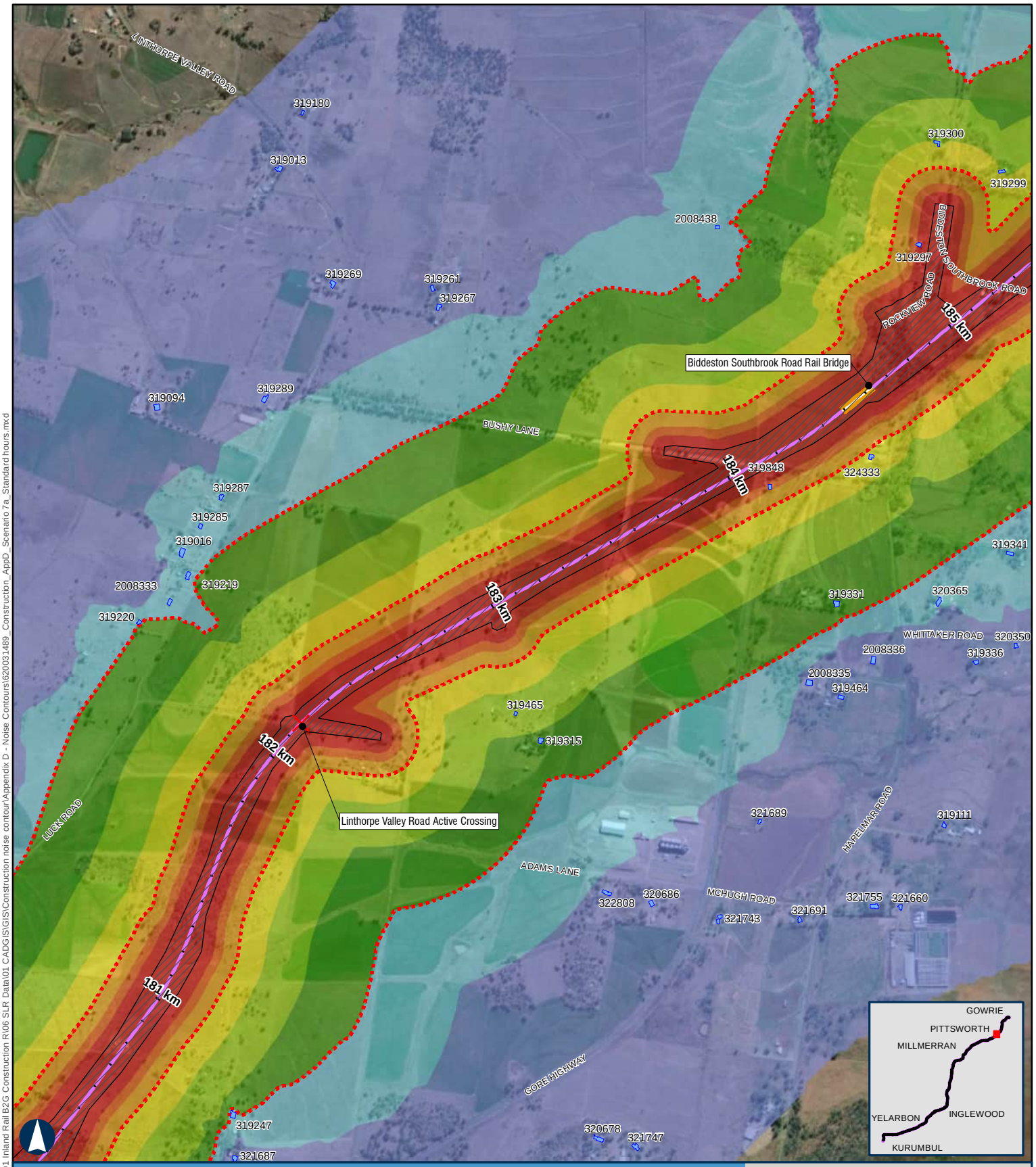

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 58 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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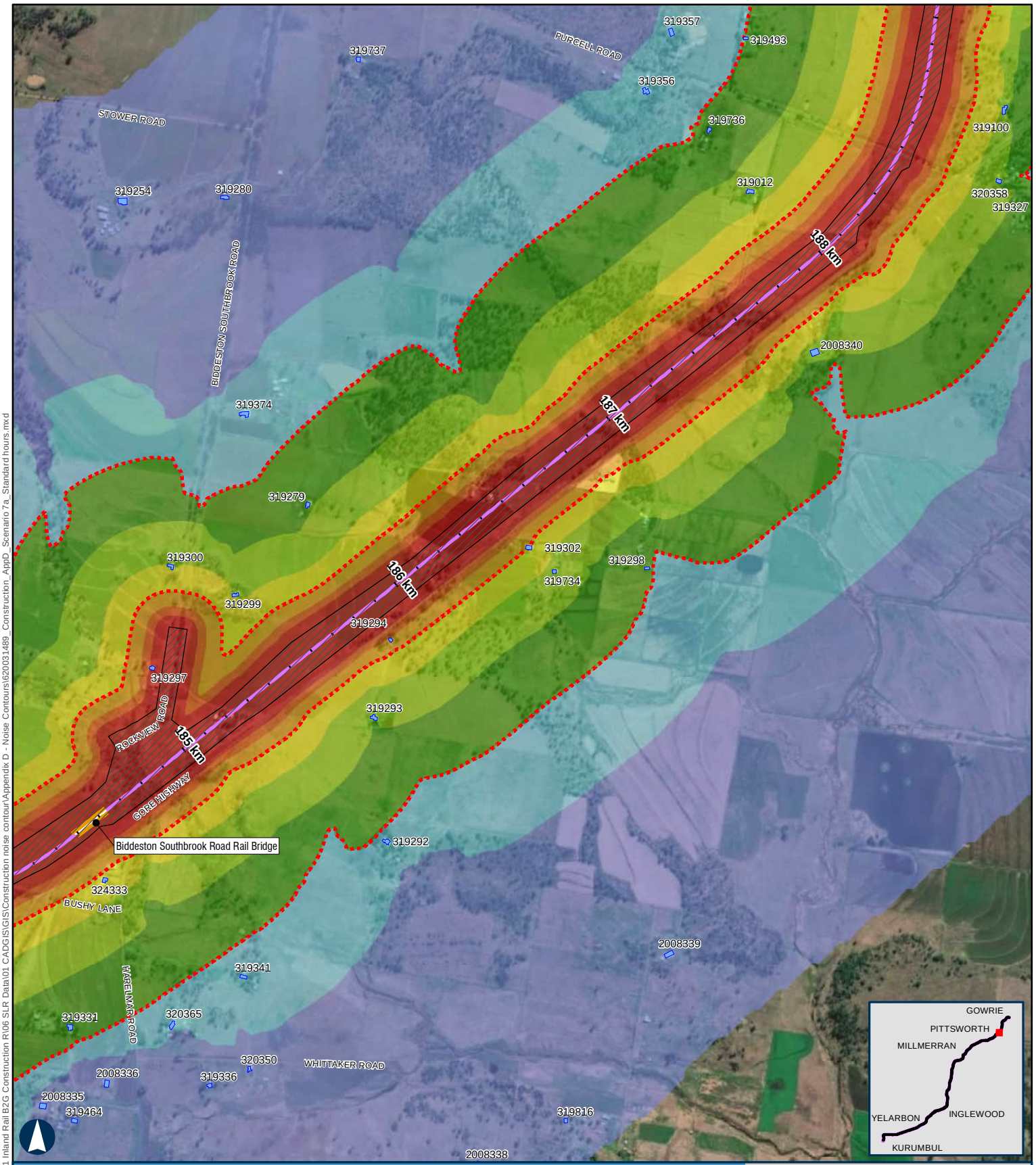

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 59 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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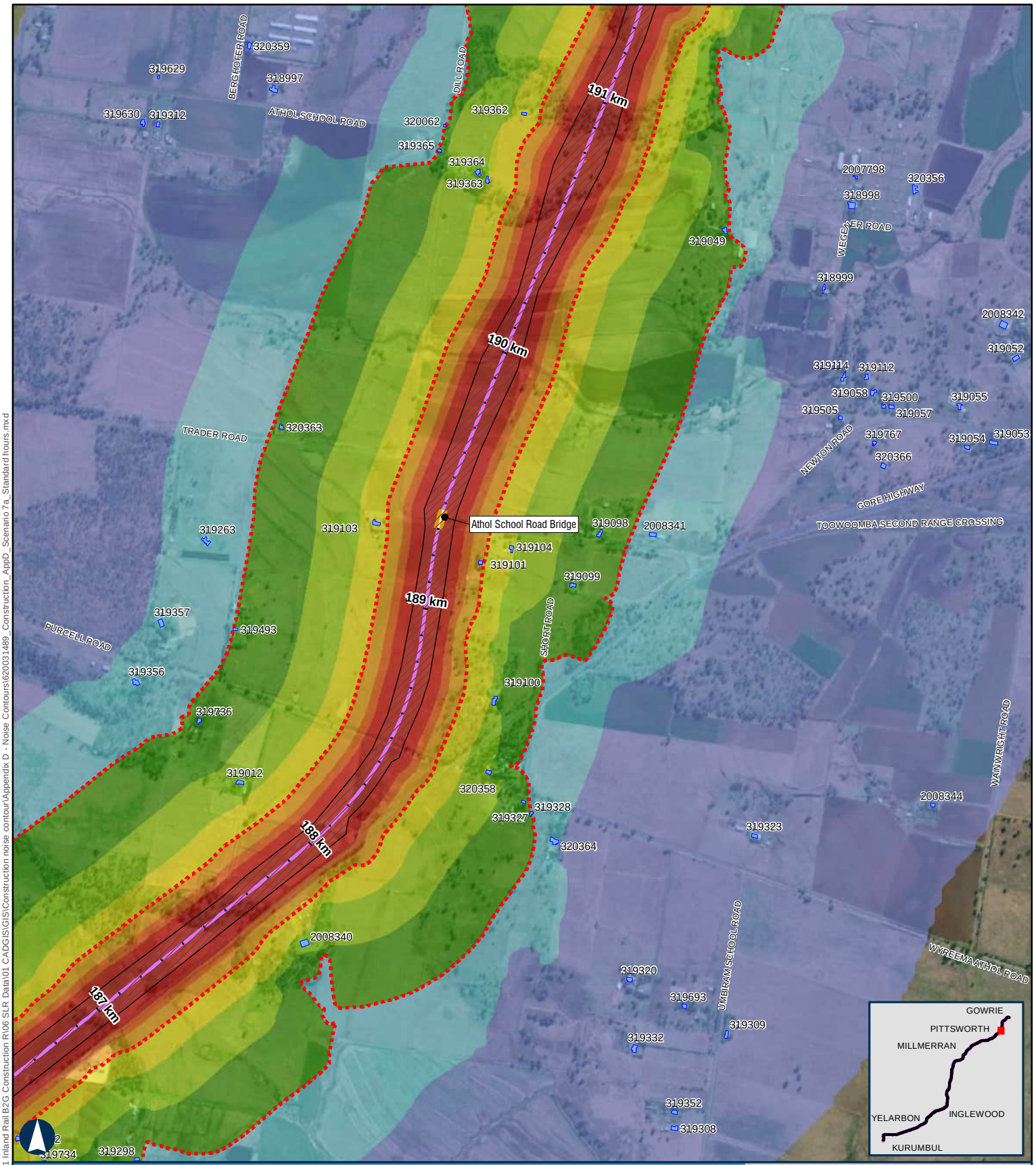

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 60 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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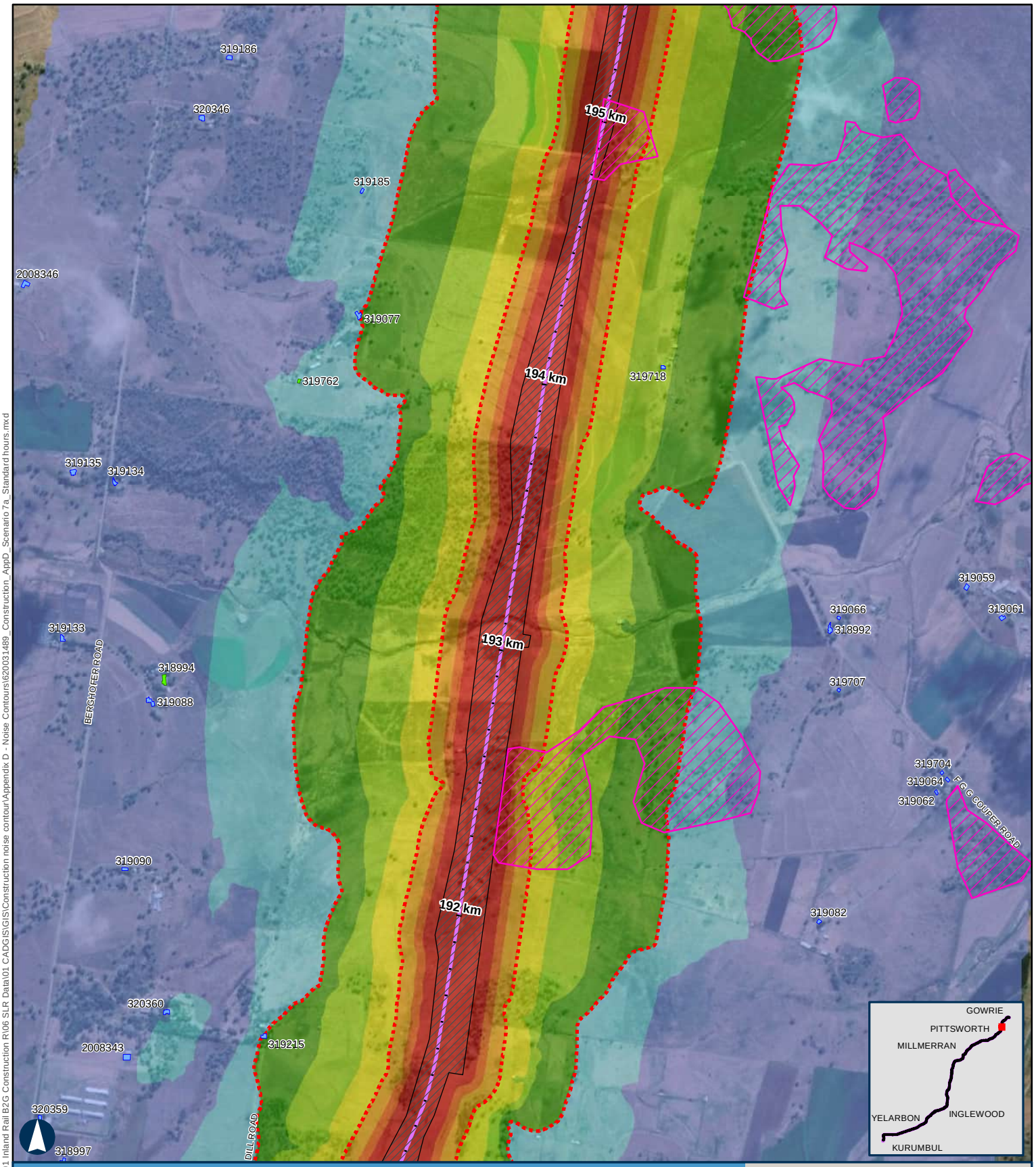

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 61 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

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- Koala Habitat Area

Sensitive Receptor Type
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Noise Levels
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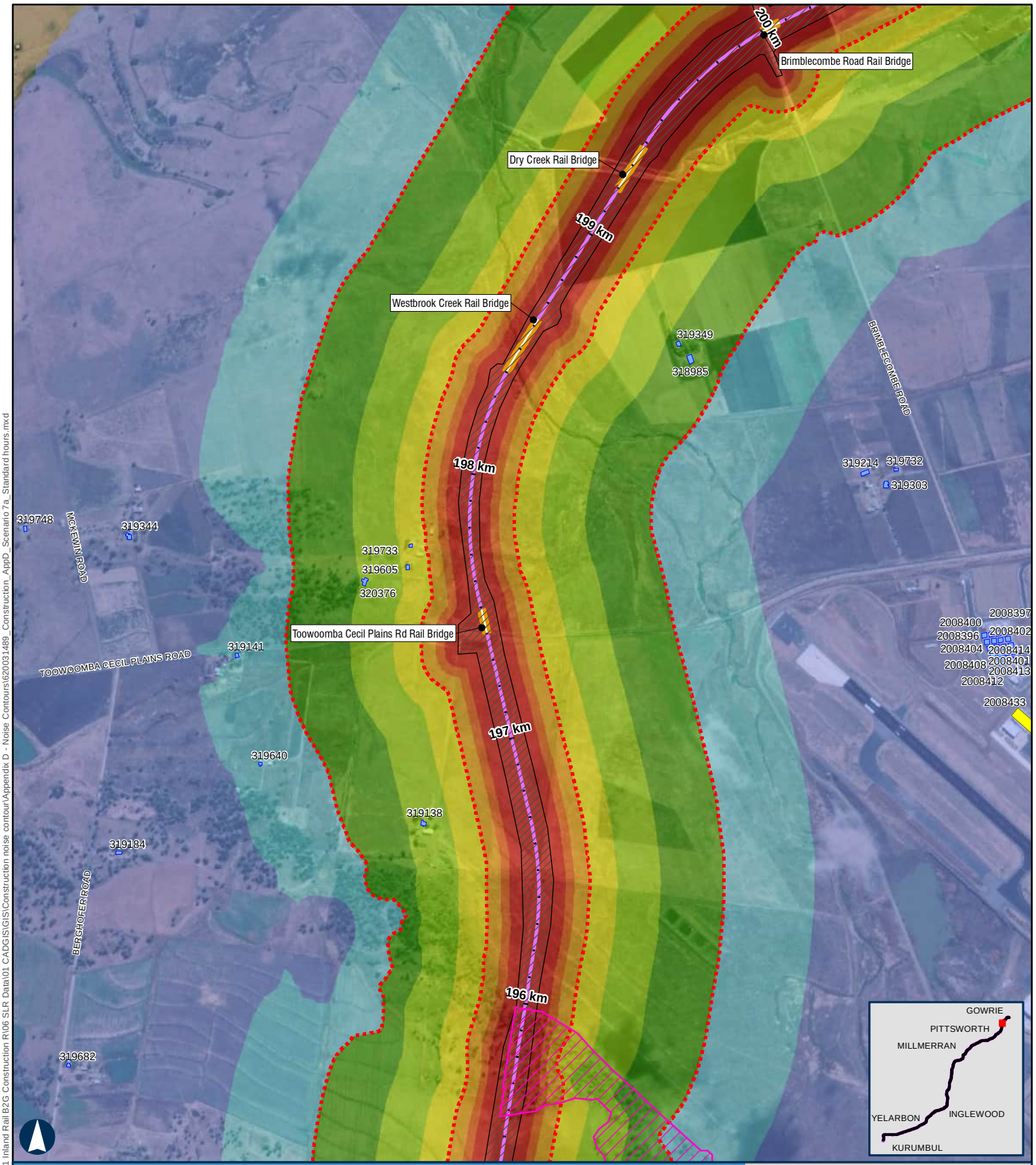

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 62 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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Sensitive Receptor Type

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- Future Developments

Noise Levels

- <45 dBA
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- 70-75 dBA
- >75 dBA

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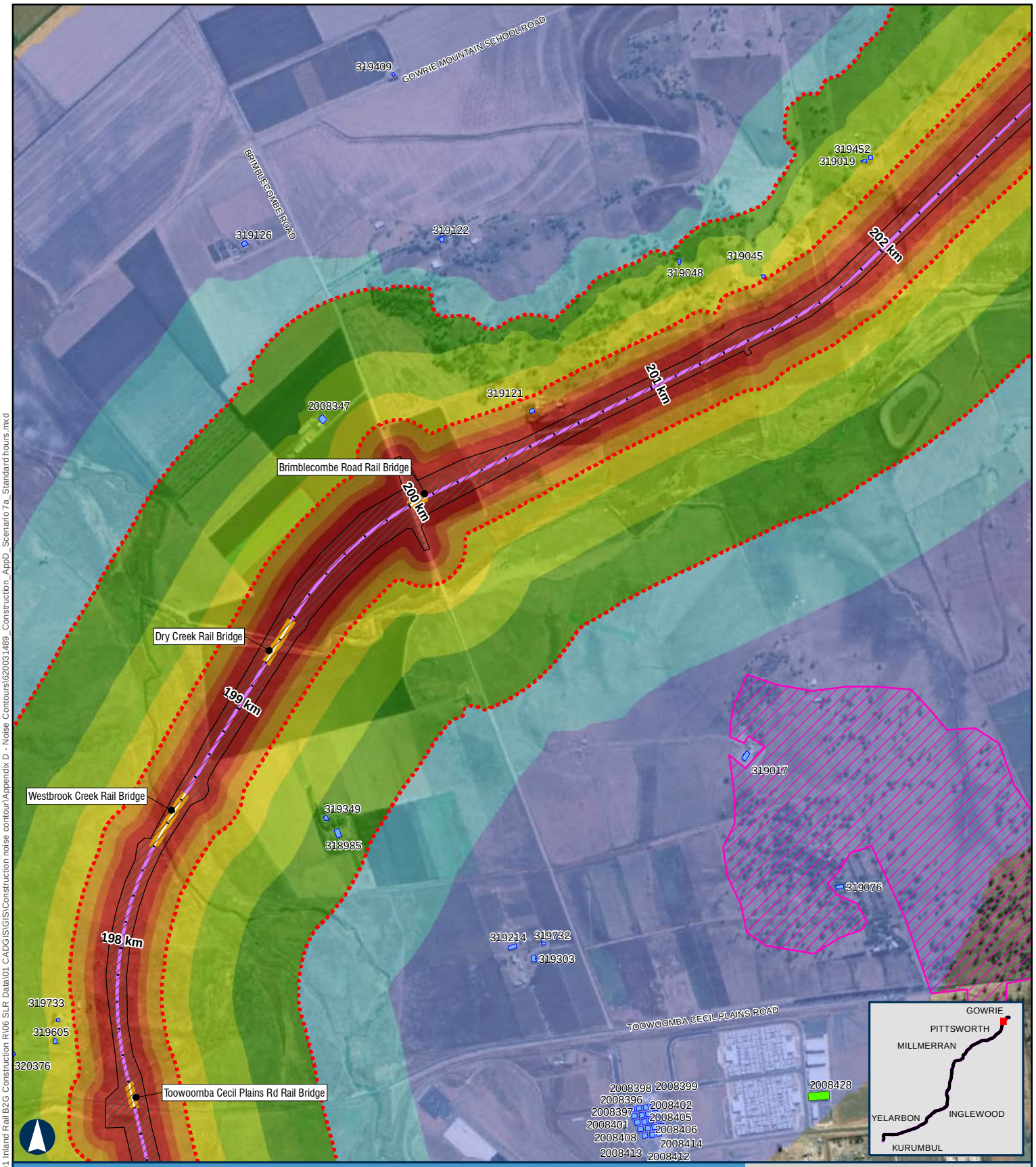

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 63 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Koala Habitat Area

Sensitive Receptor Type
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- Future Developments

Noise Levels
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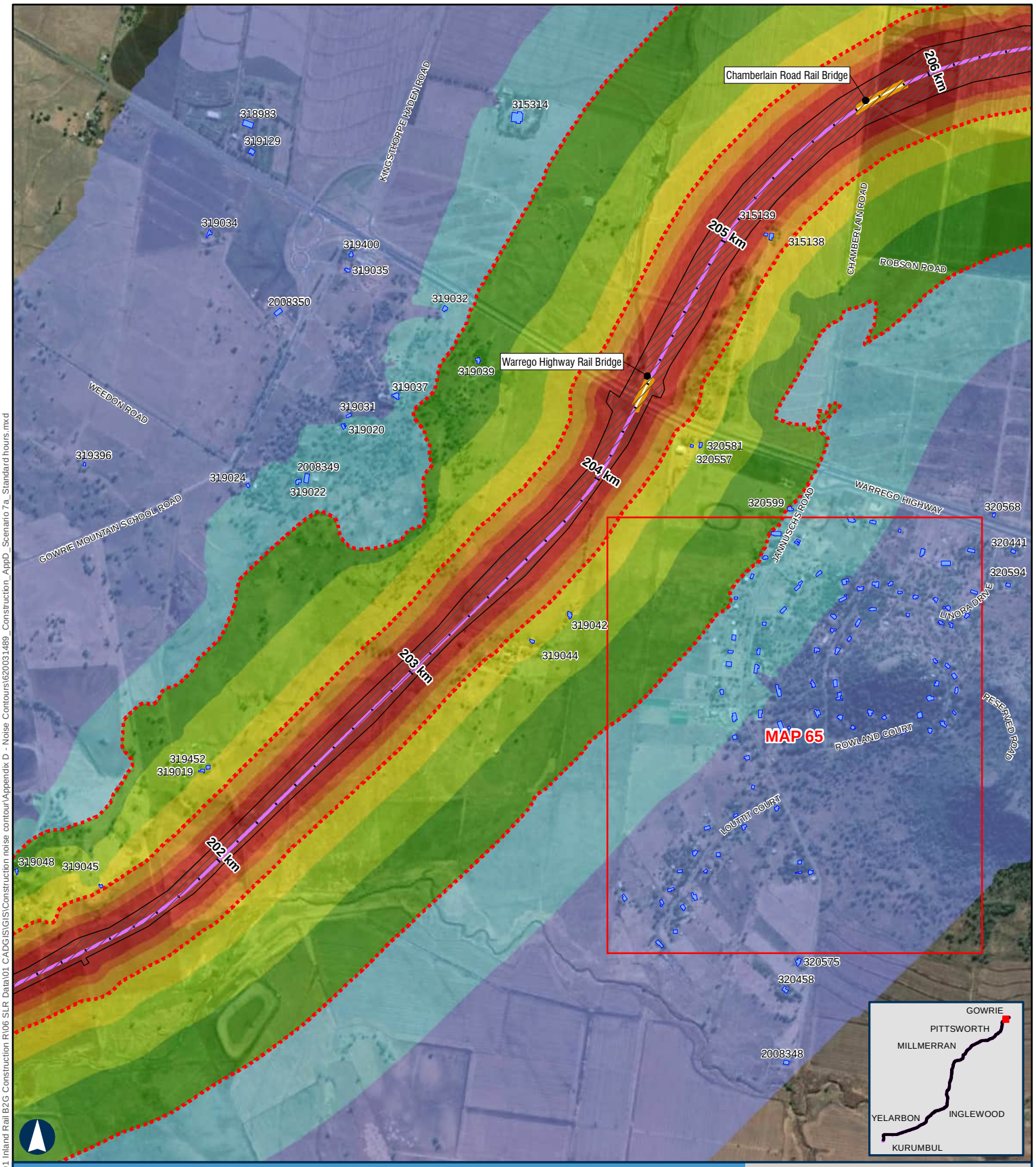

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 64 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
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- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
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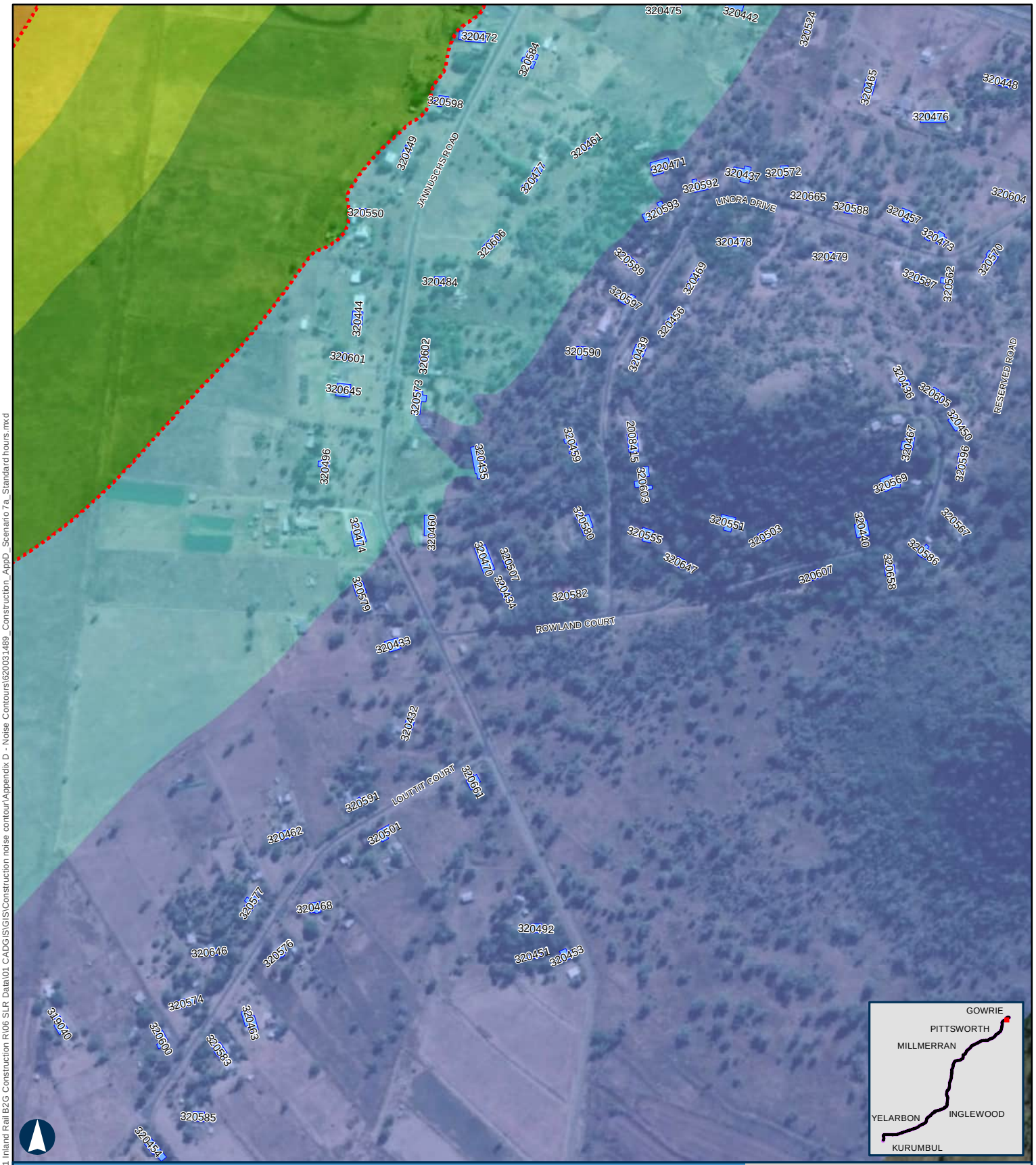

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 65 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,000
Date: 11-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (50 and 65 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
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- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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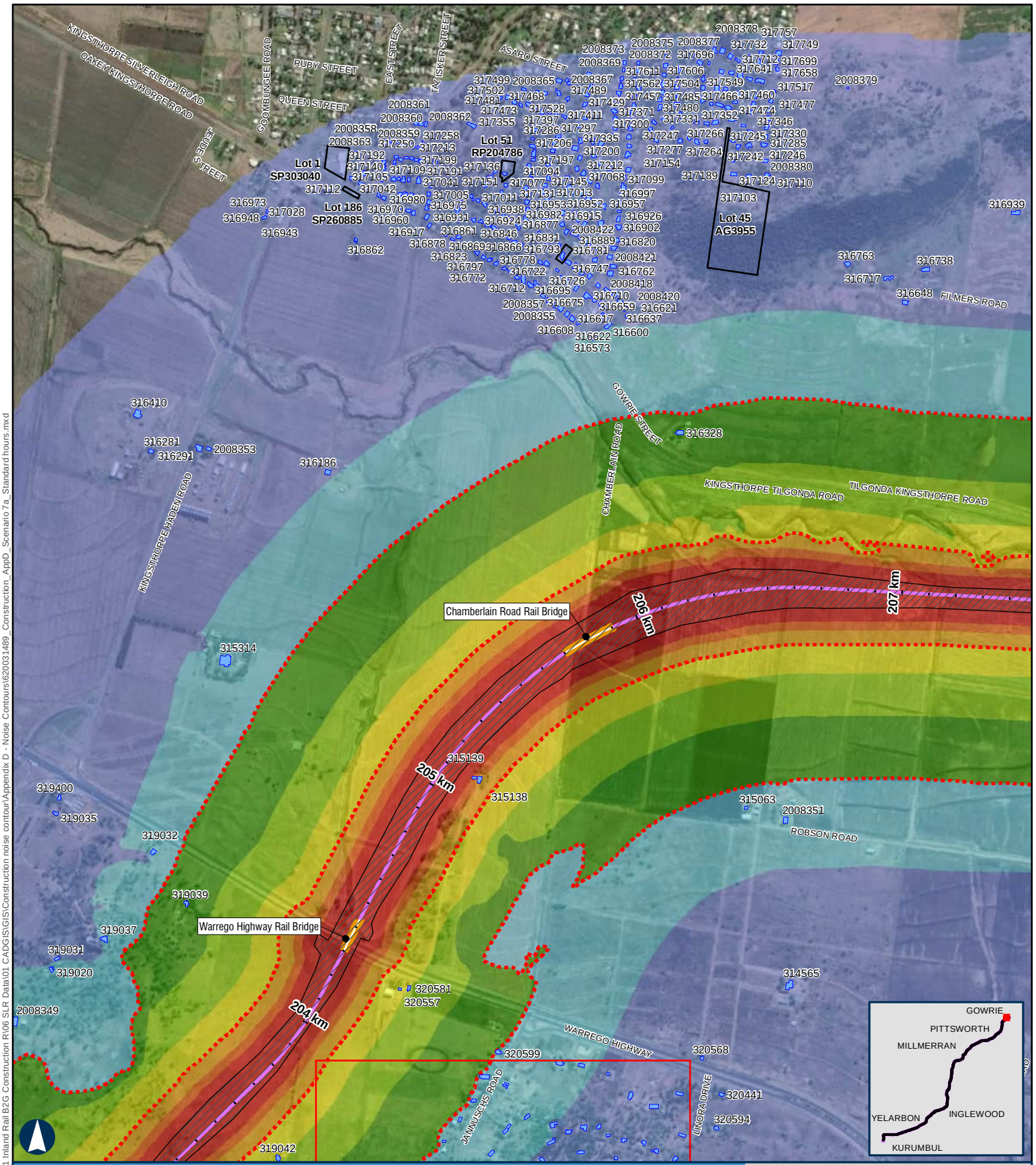

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 66 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 11-Nov-2024
Author: JG

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Sensitive Receptor Type

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Noise Levels

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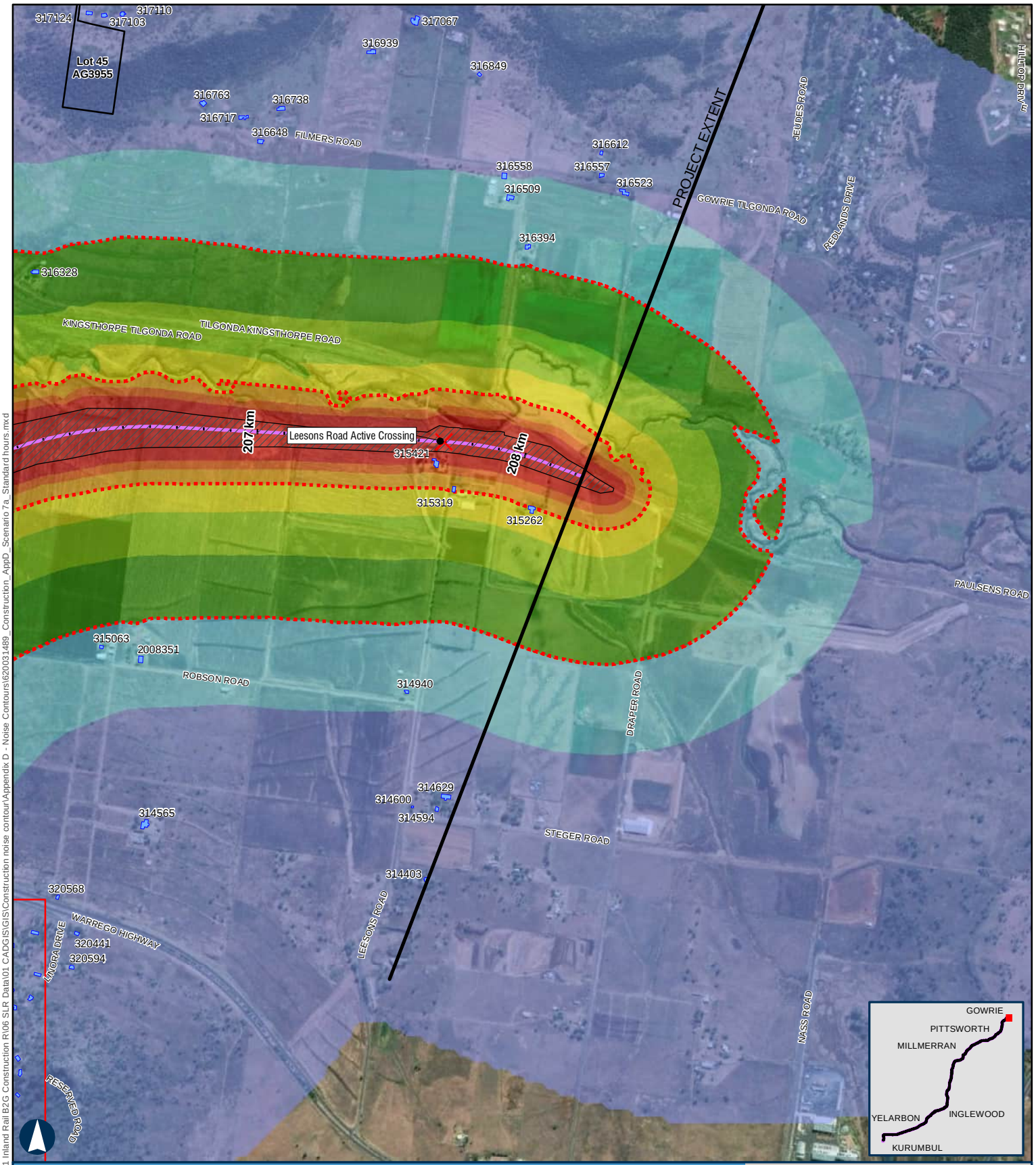

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Standard Hours

APPENDIX D - MAP 67 OF 67

100 m

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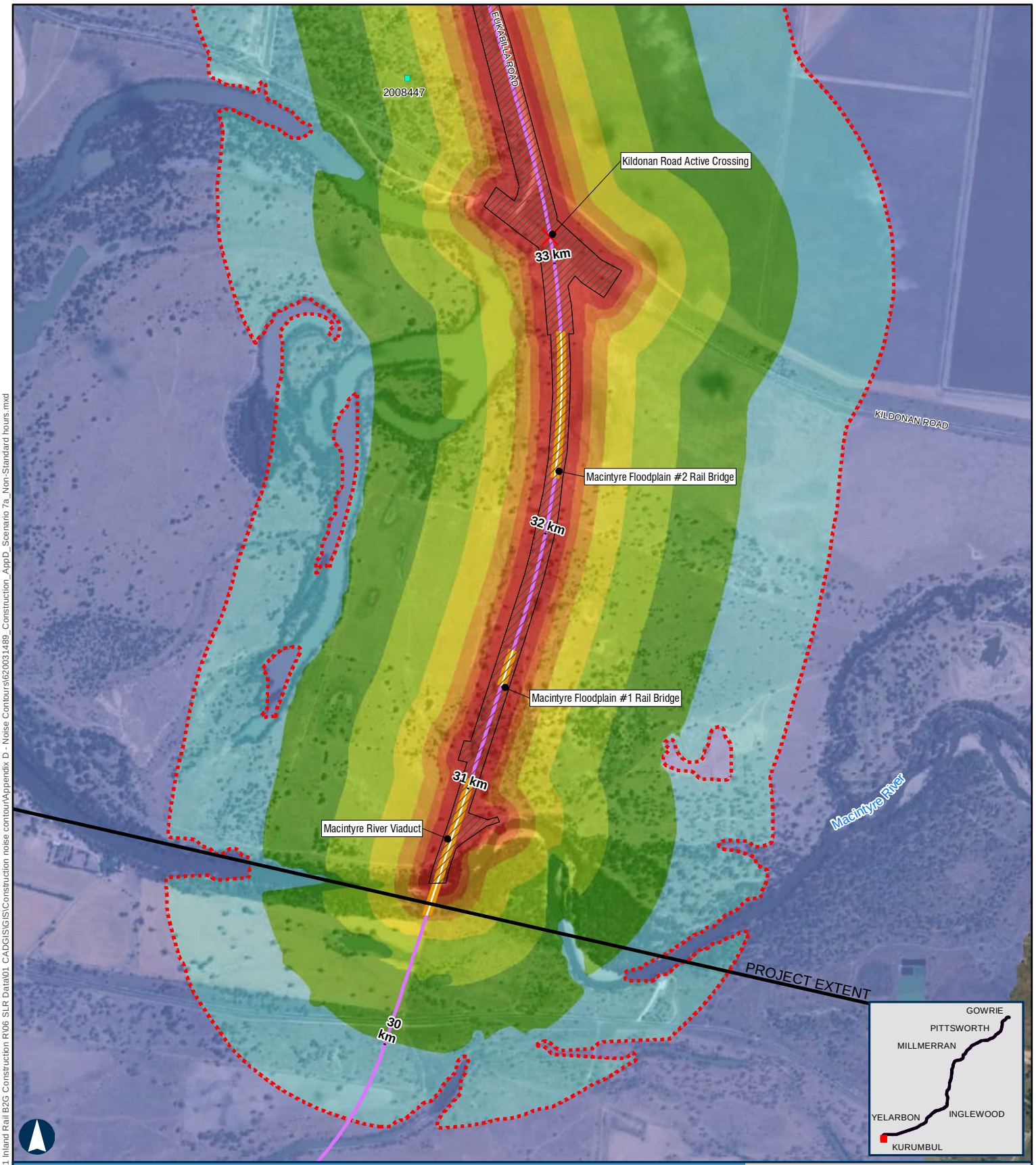

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 1 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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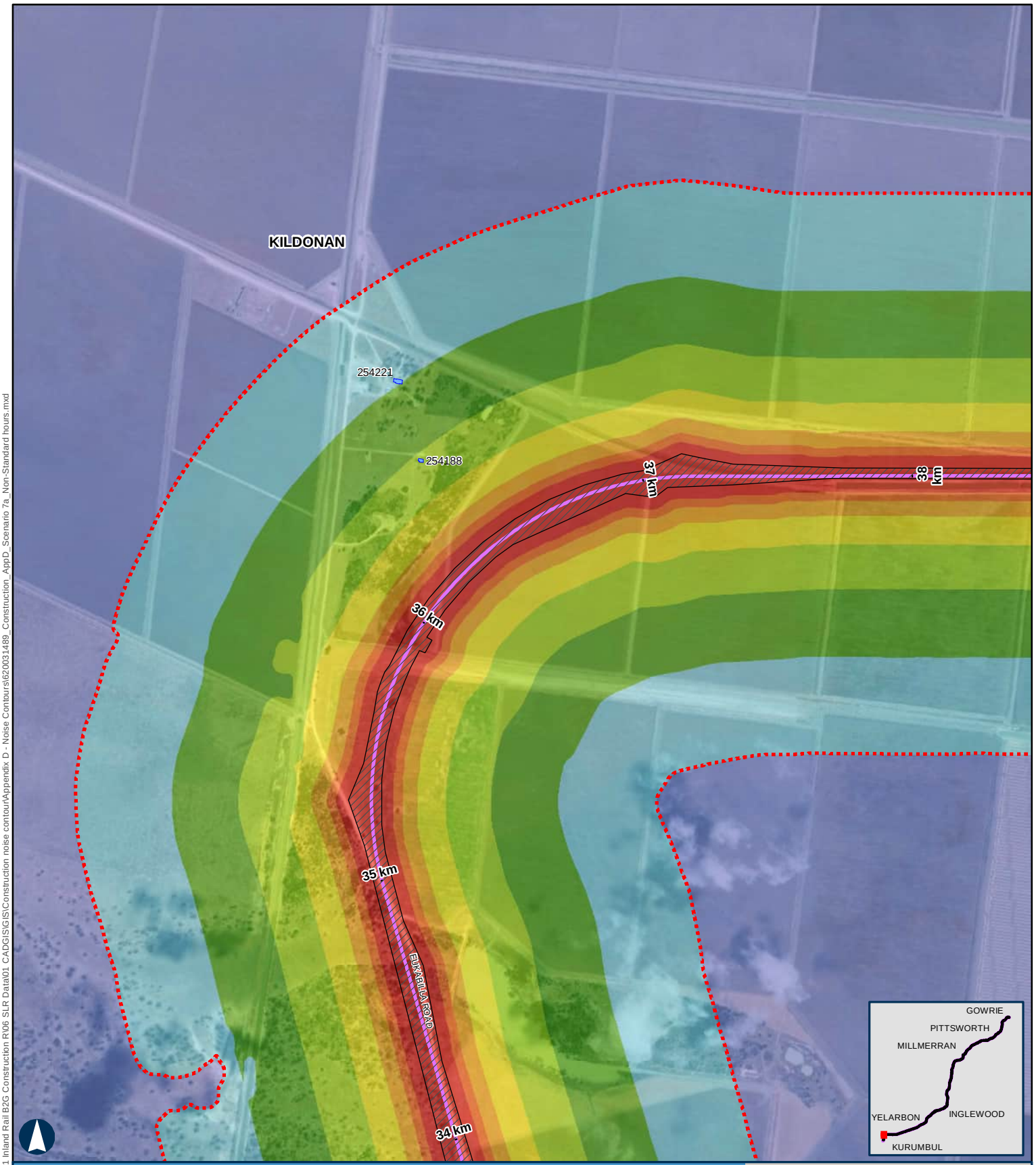

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 2 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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Sensitive Receptor Type
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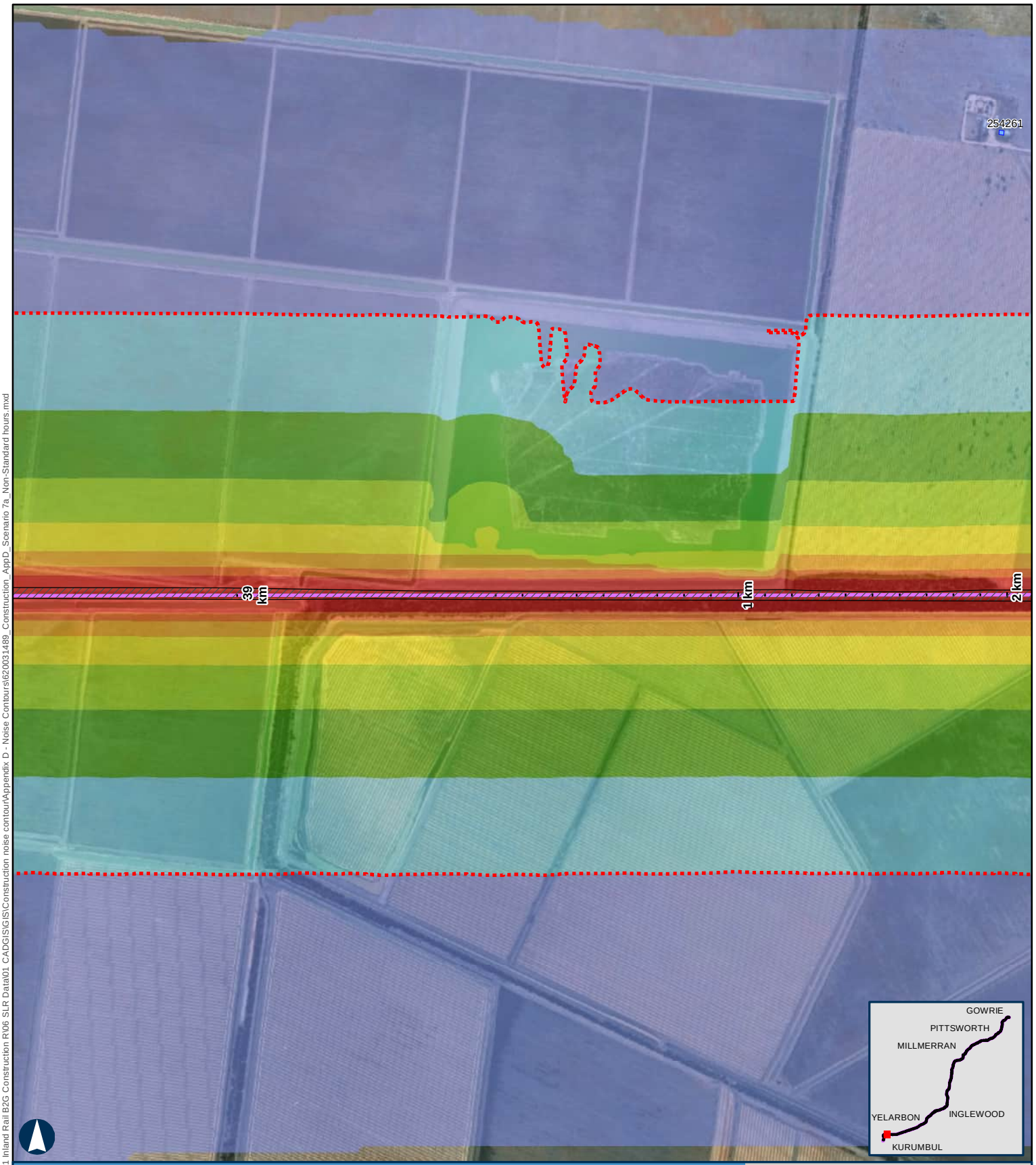

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 3 OF 67

100 m

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Author: JG

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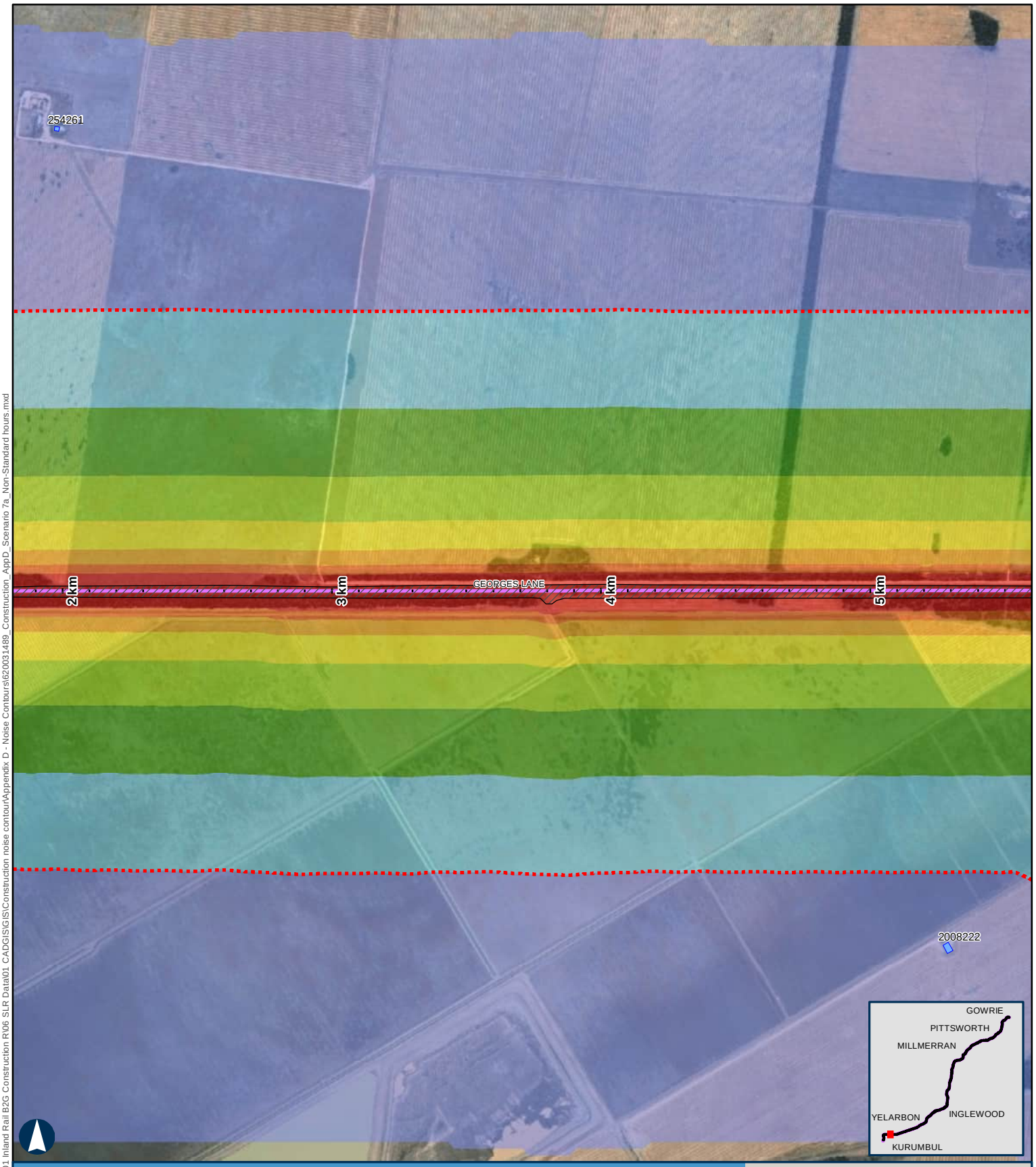

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 4 OF 67

100 m

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Author: JG

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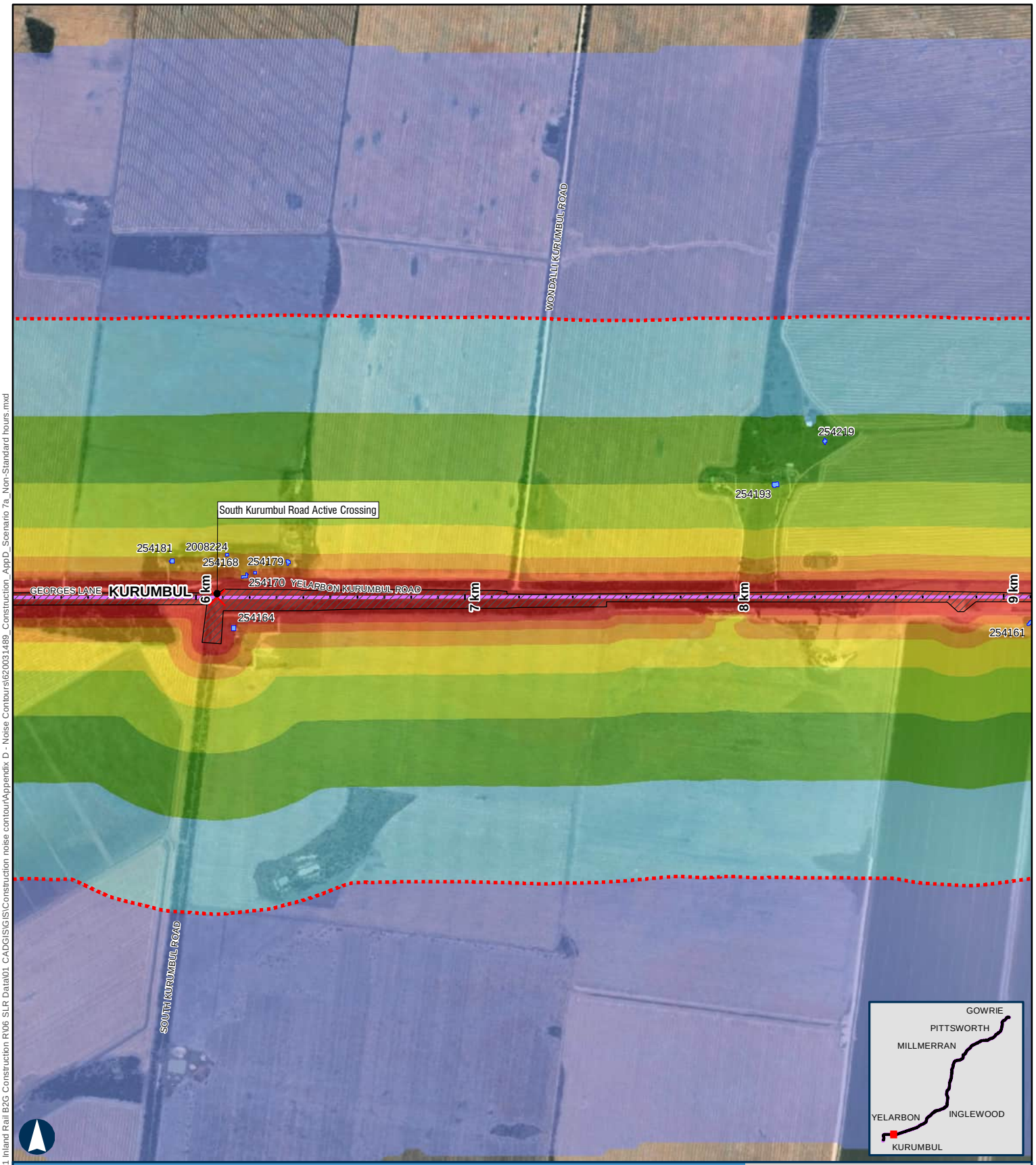

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 5 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

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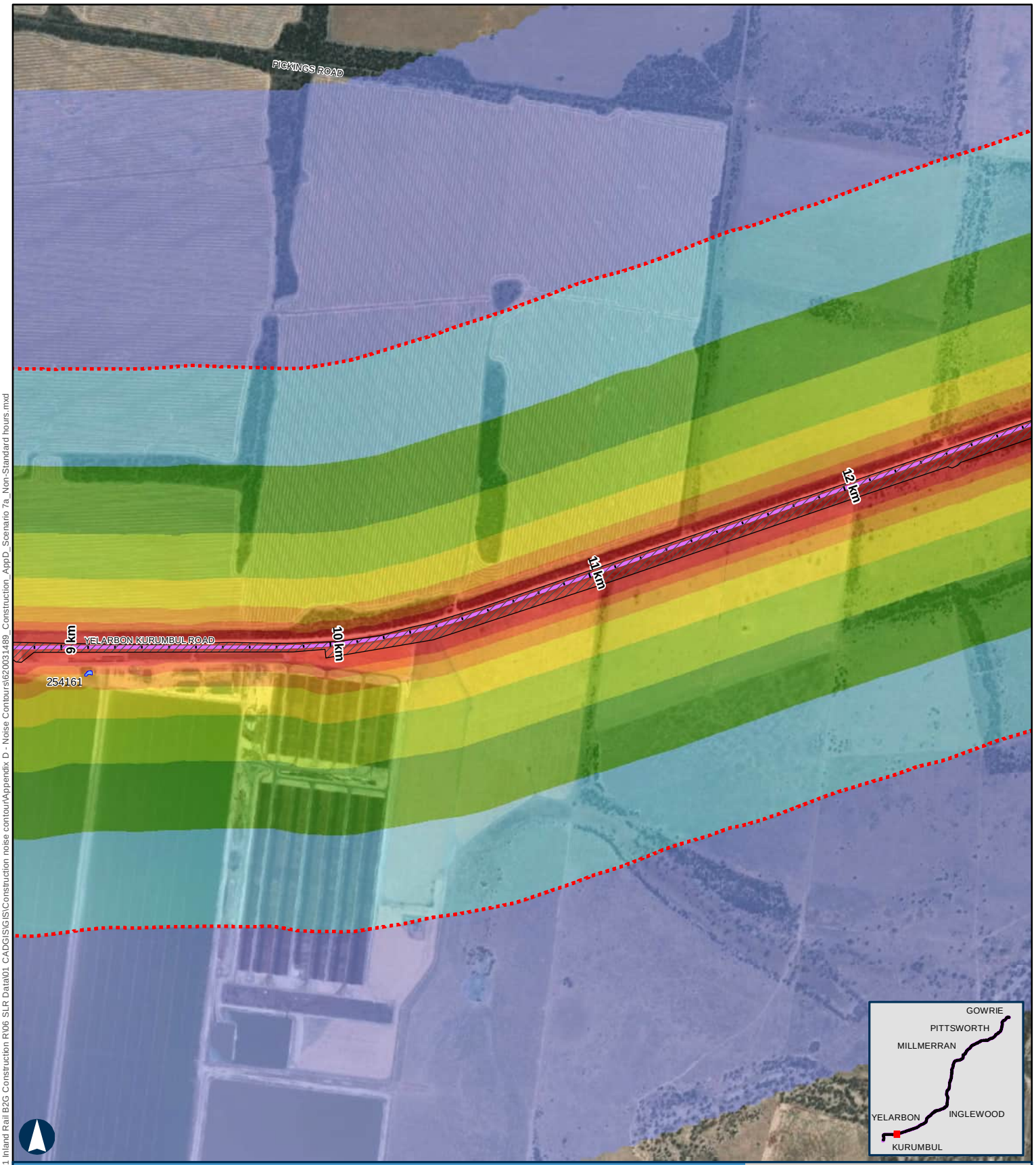

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 6 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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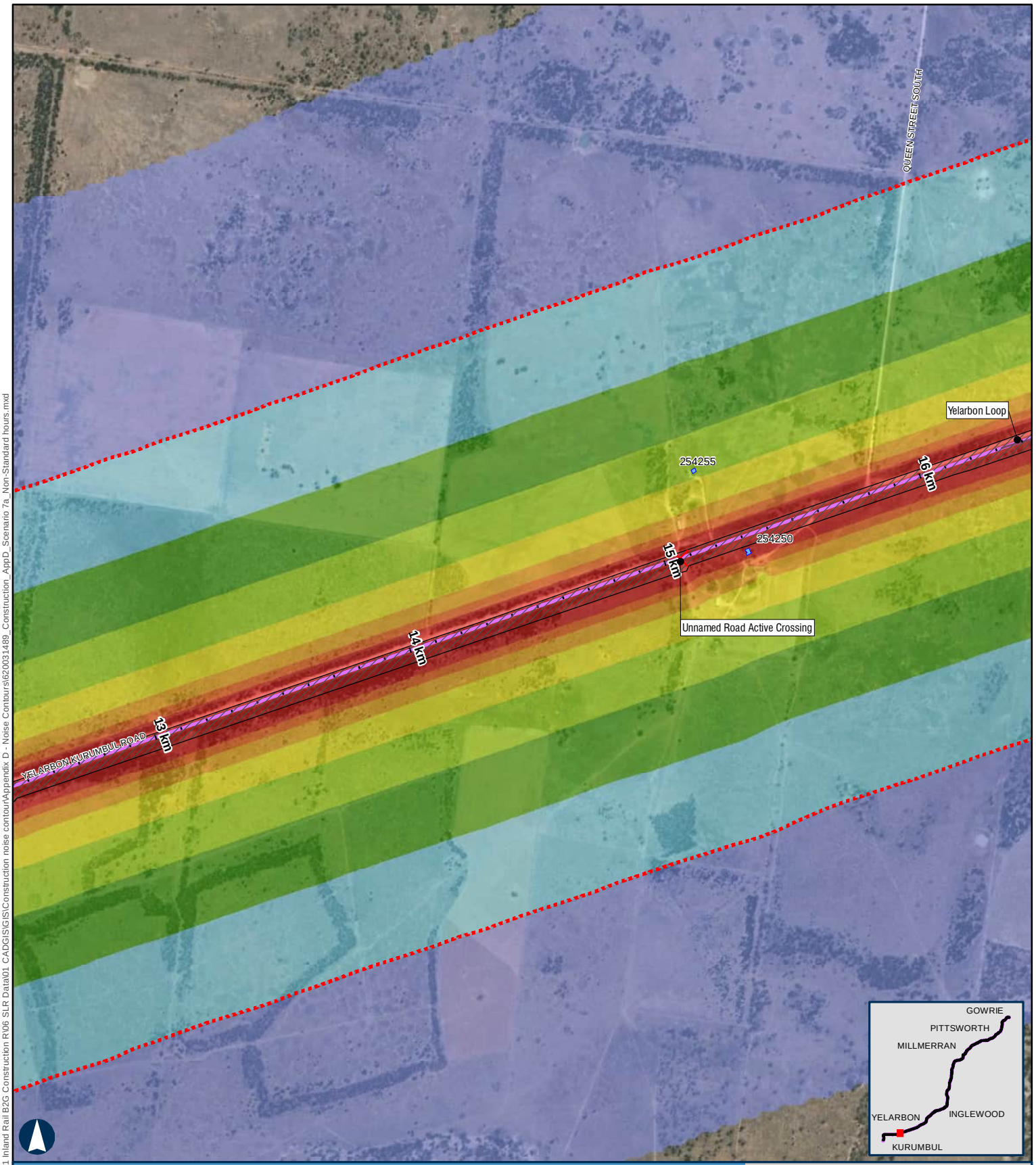

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 7 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
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- Koala Habitat Area

Sensitive Receptor Type
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- Community
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- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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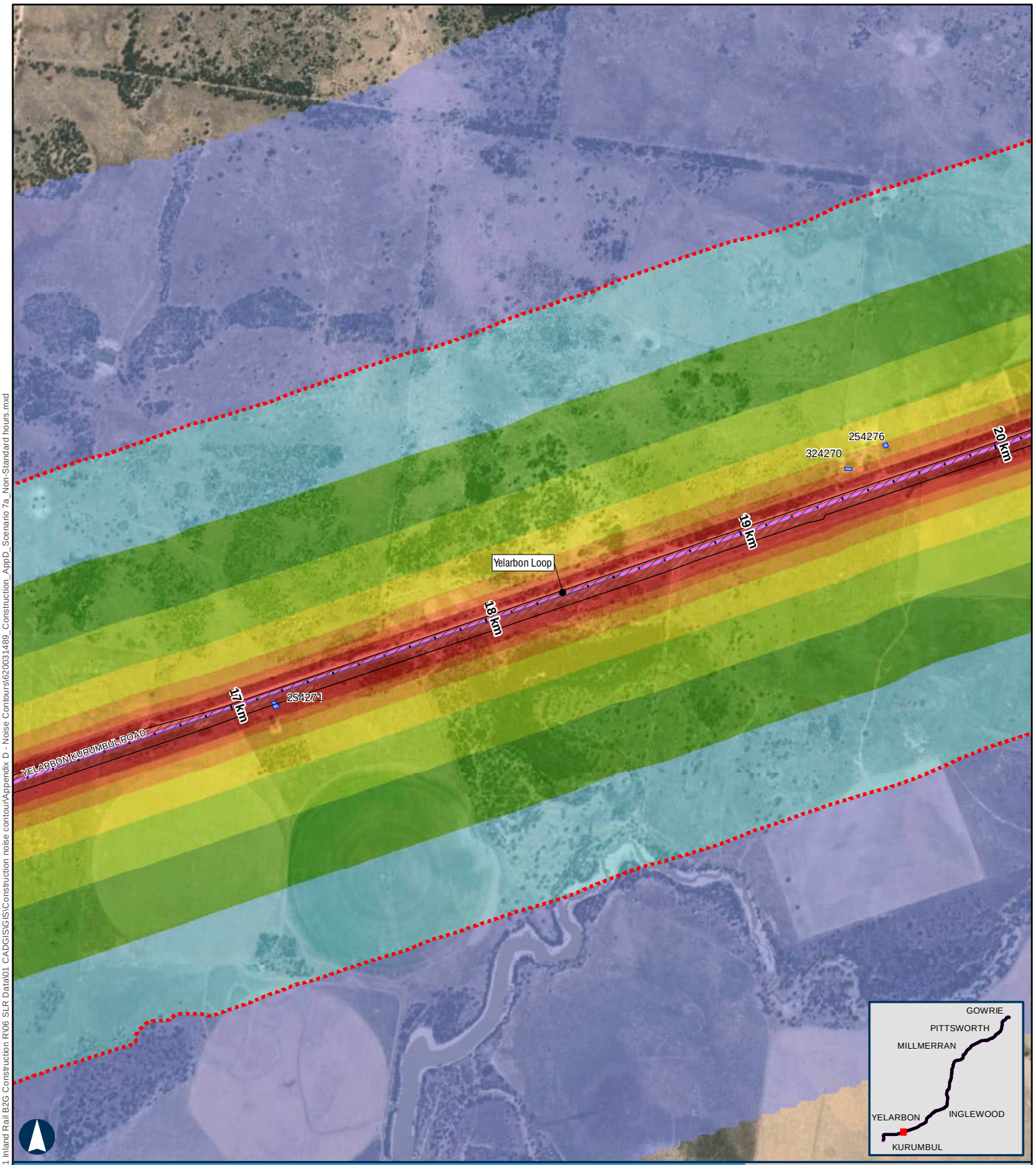

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 8 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

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- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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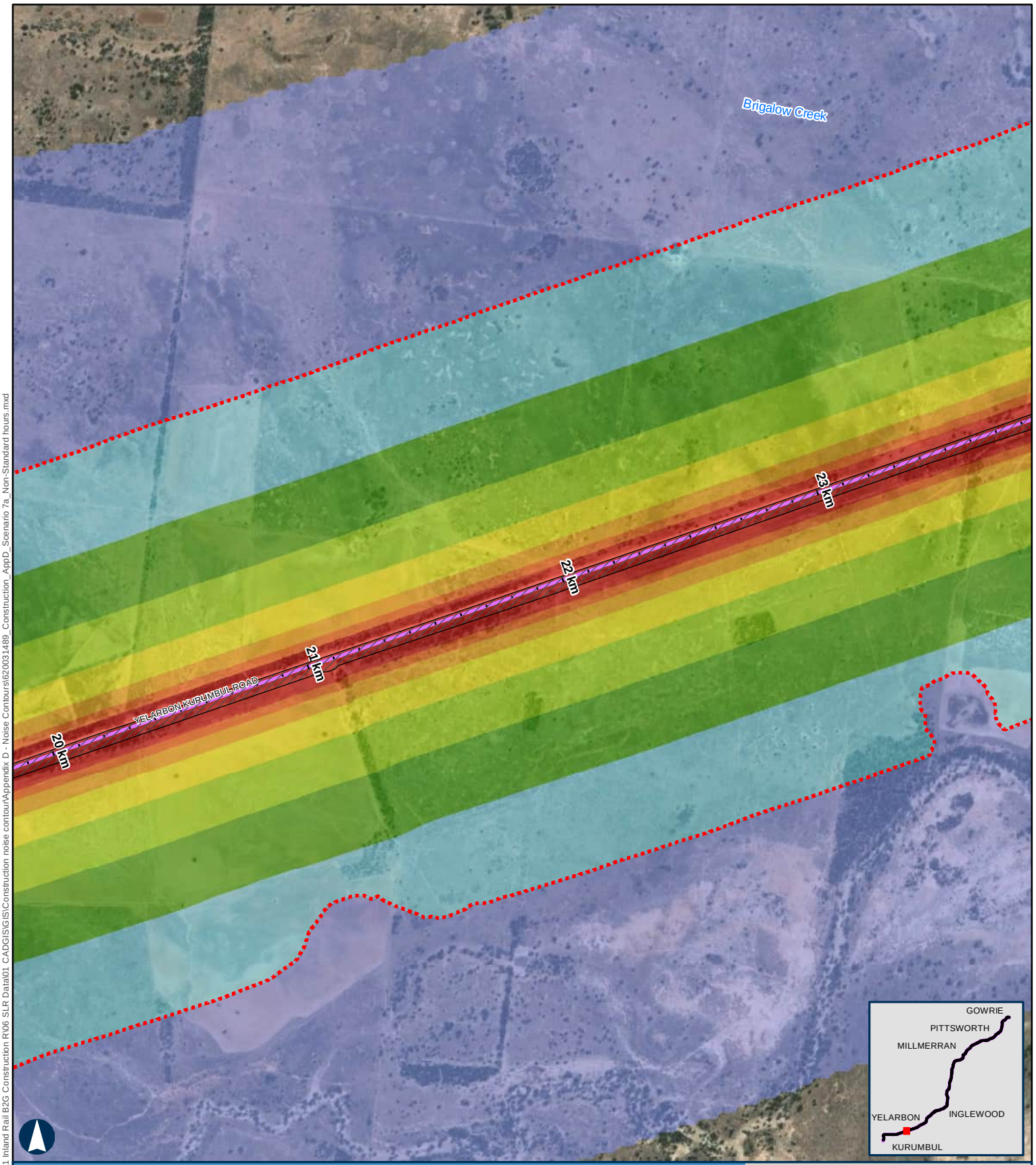

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 9 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
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- Koala Habitat Area

Sensitive Receptor Type
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- Future Developments

Noise Levels
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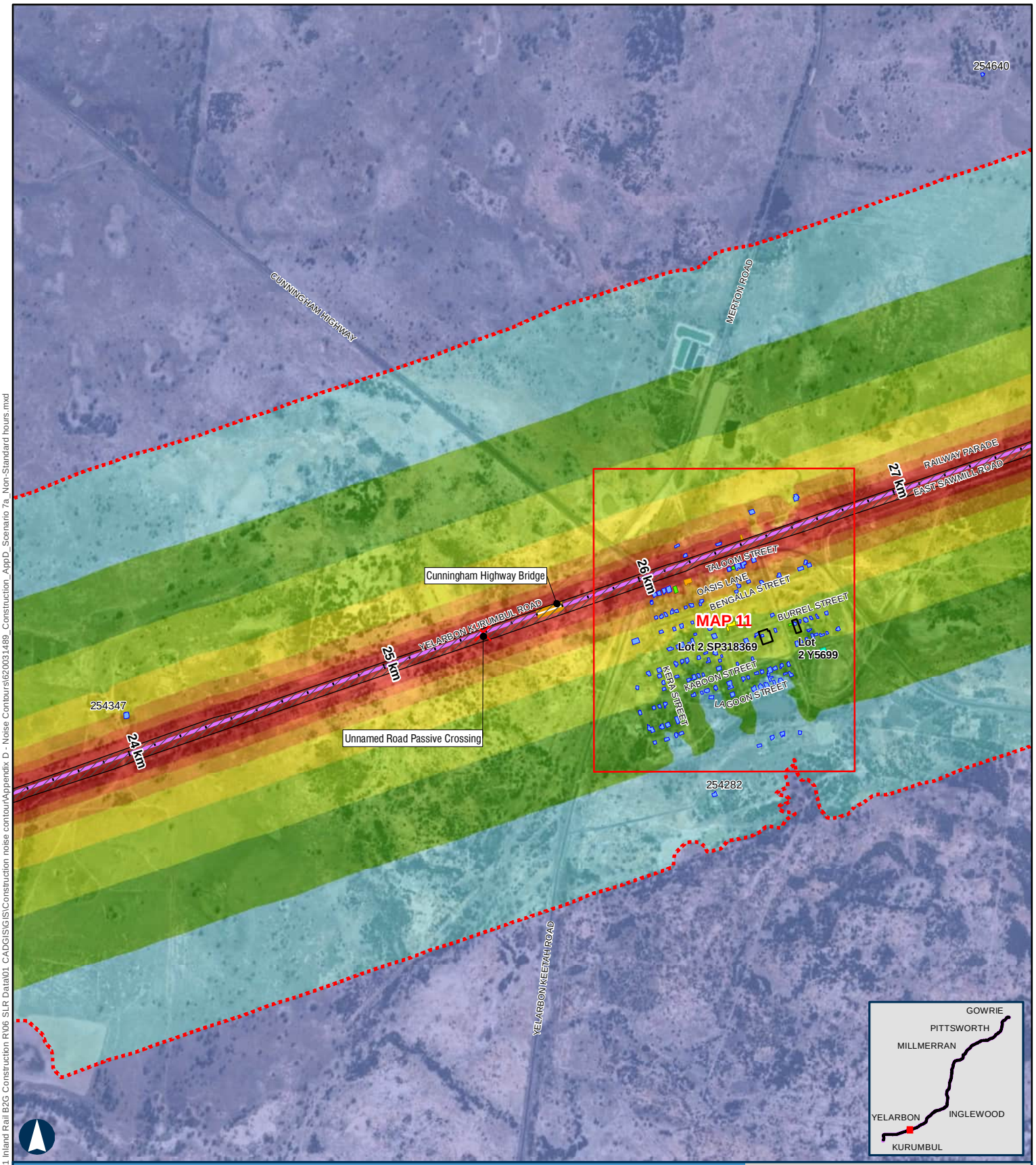

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 10 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
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- Koala Habitat Area

Sensitive Receptor Type
- Residential
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- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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- 70-75 dBA
- >75 dBA

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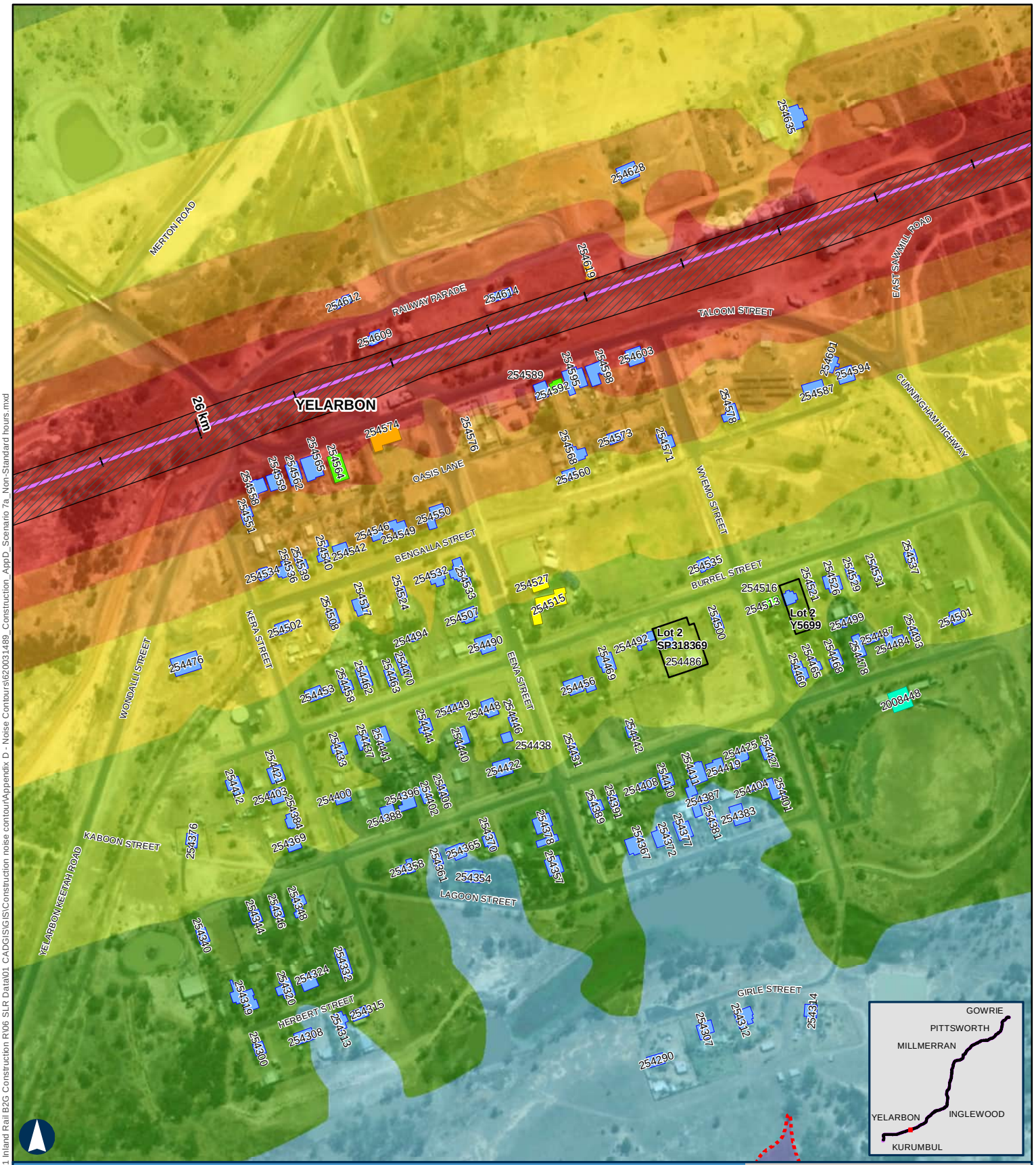

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 11 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
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- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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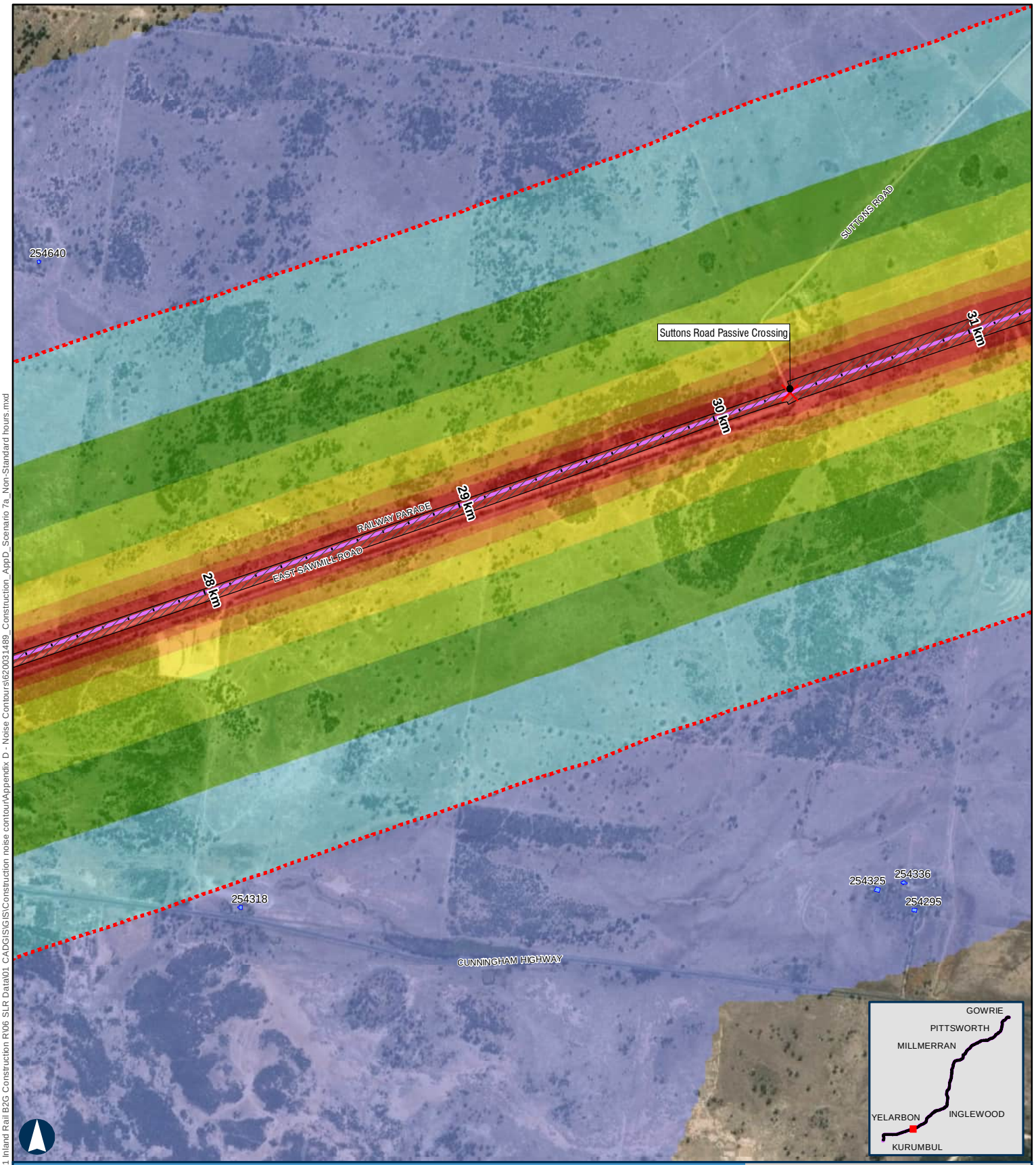

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 12 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
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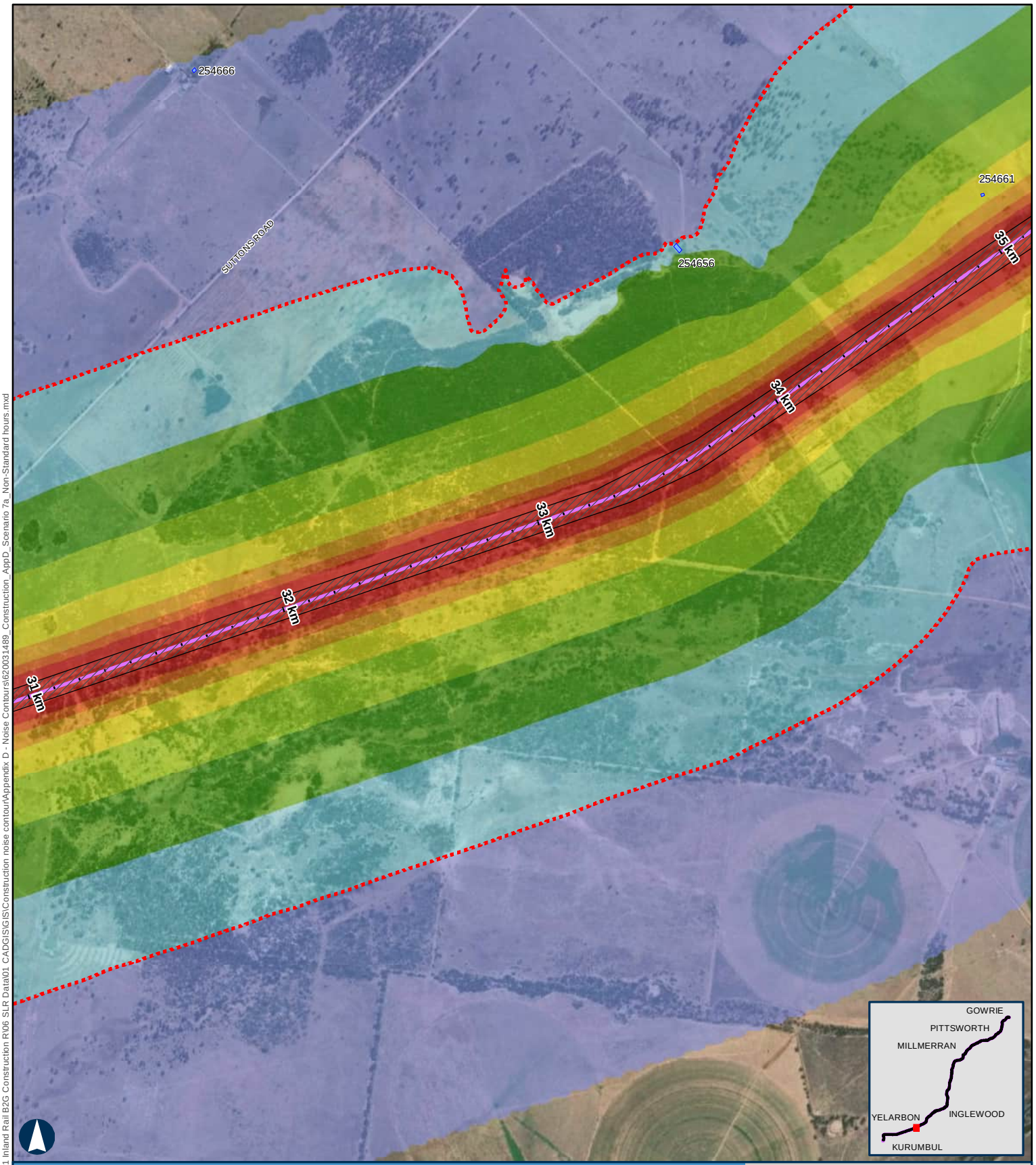

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 13 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
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- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
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- Commercial
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- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
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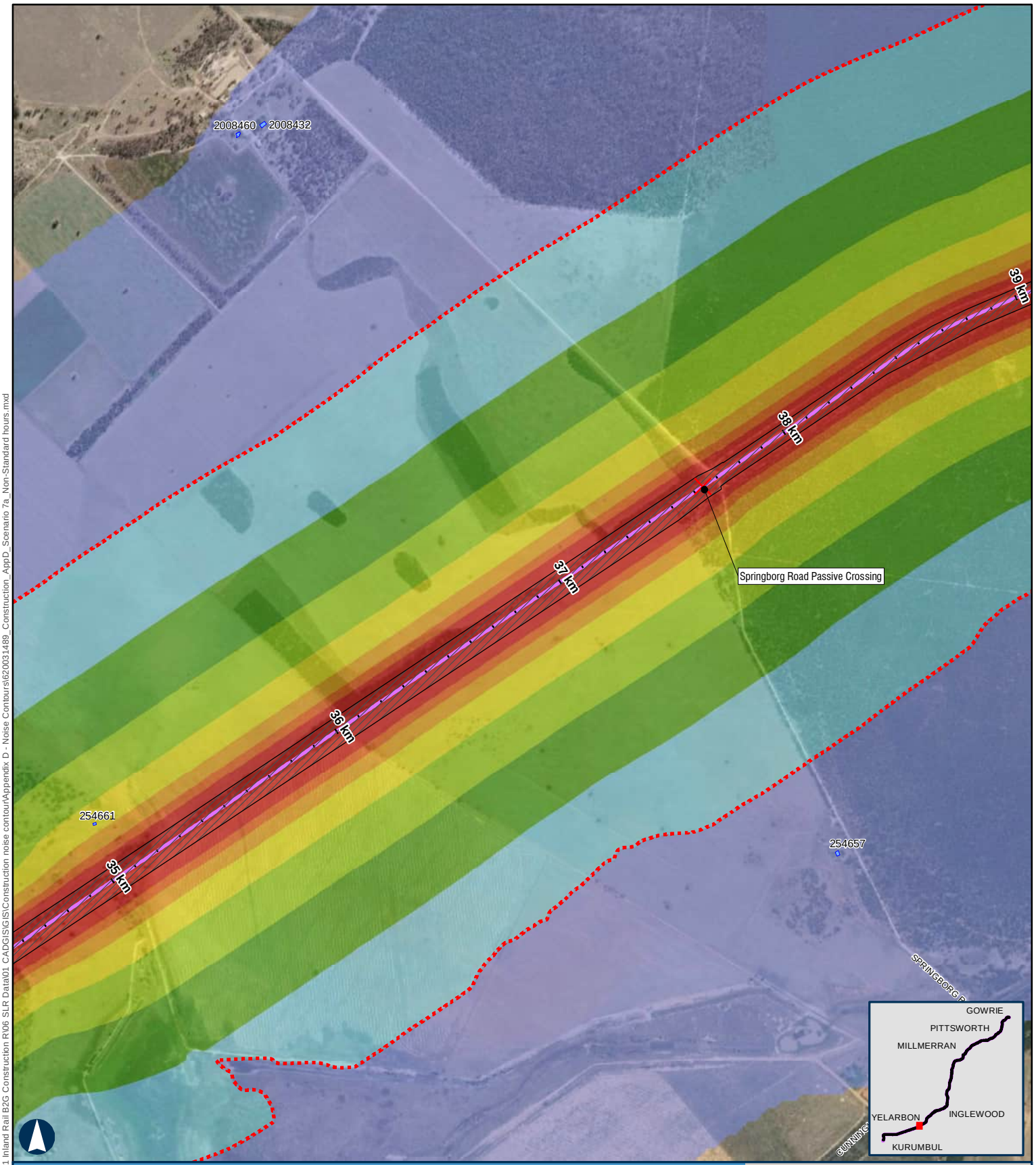

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 14 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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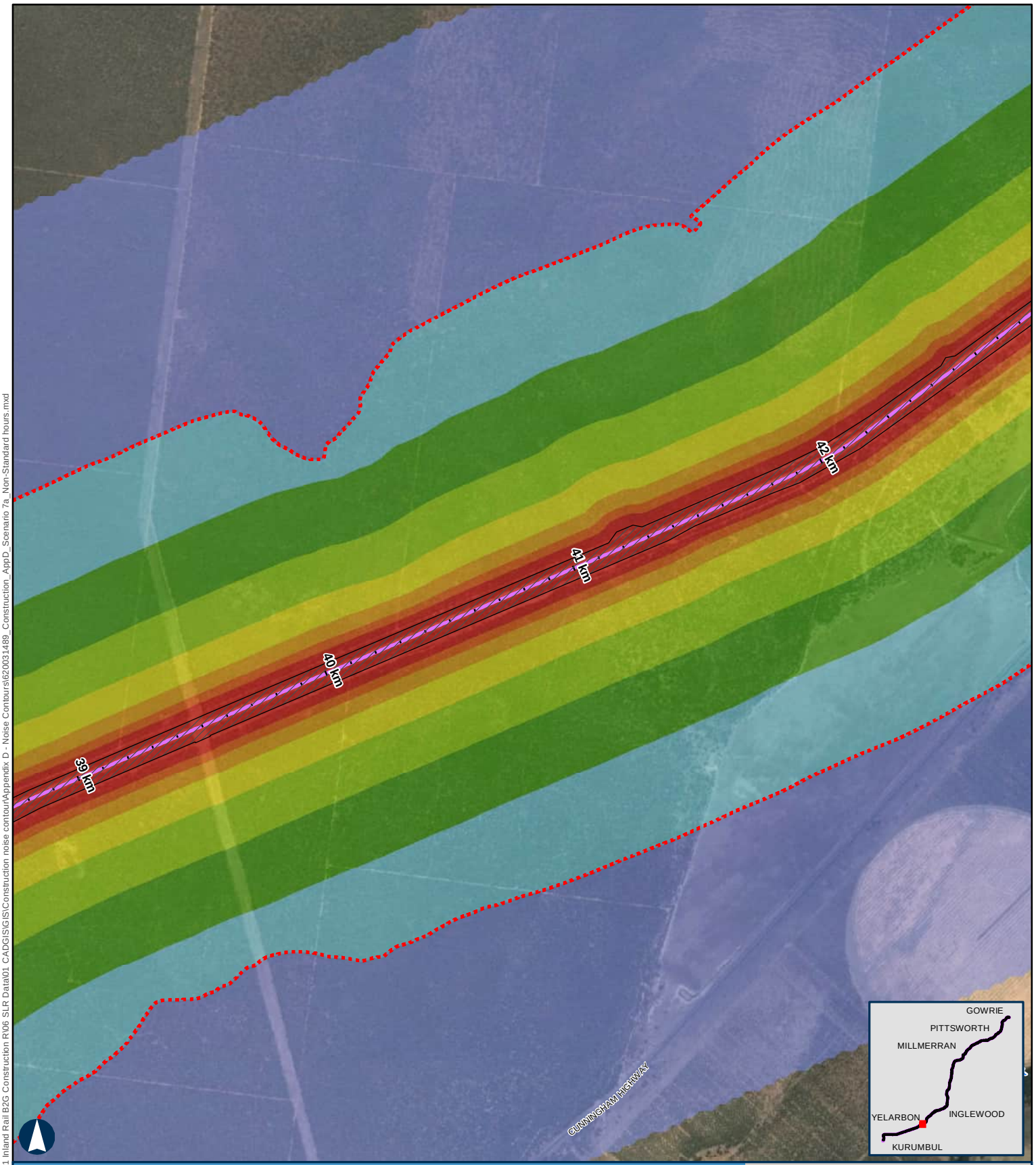

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 15 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

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- Flying Fox Camp
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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Noise Levels
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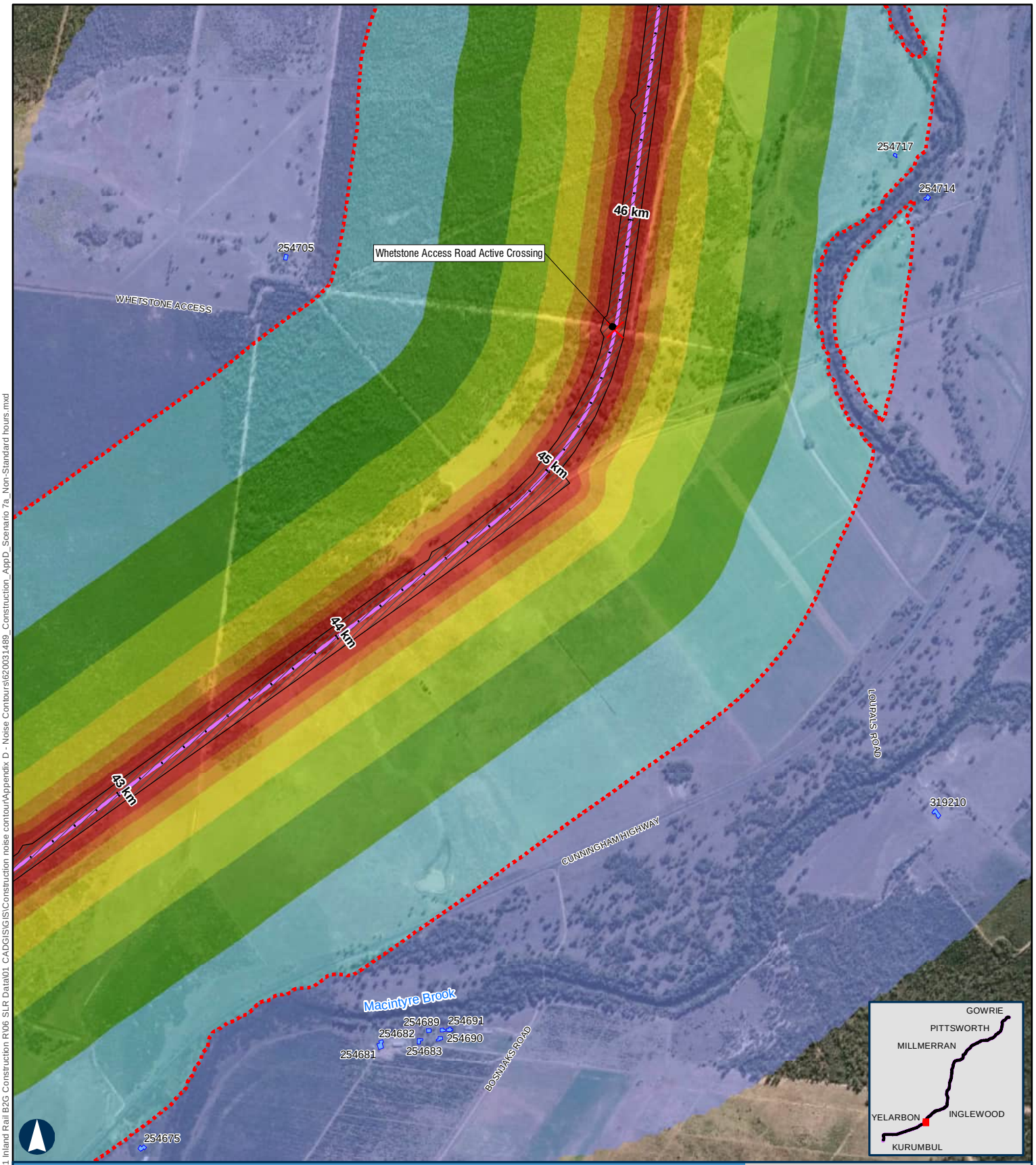

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 16 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Work Area
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Sensitive Receptor Type
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Noise Levels
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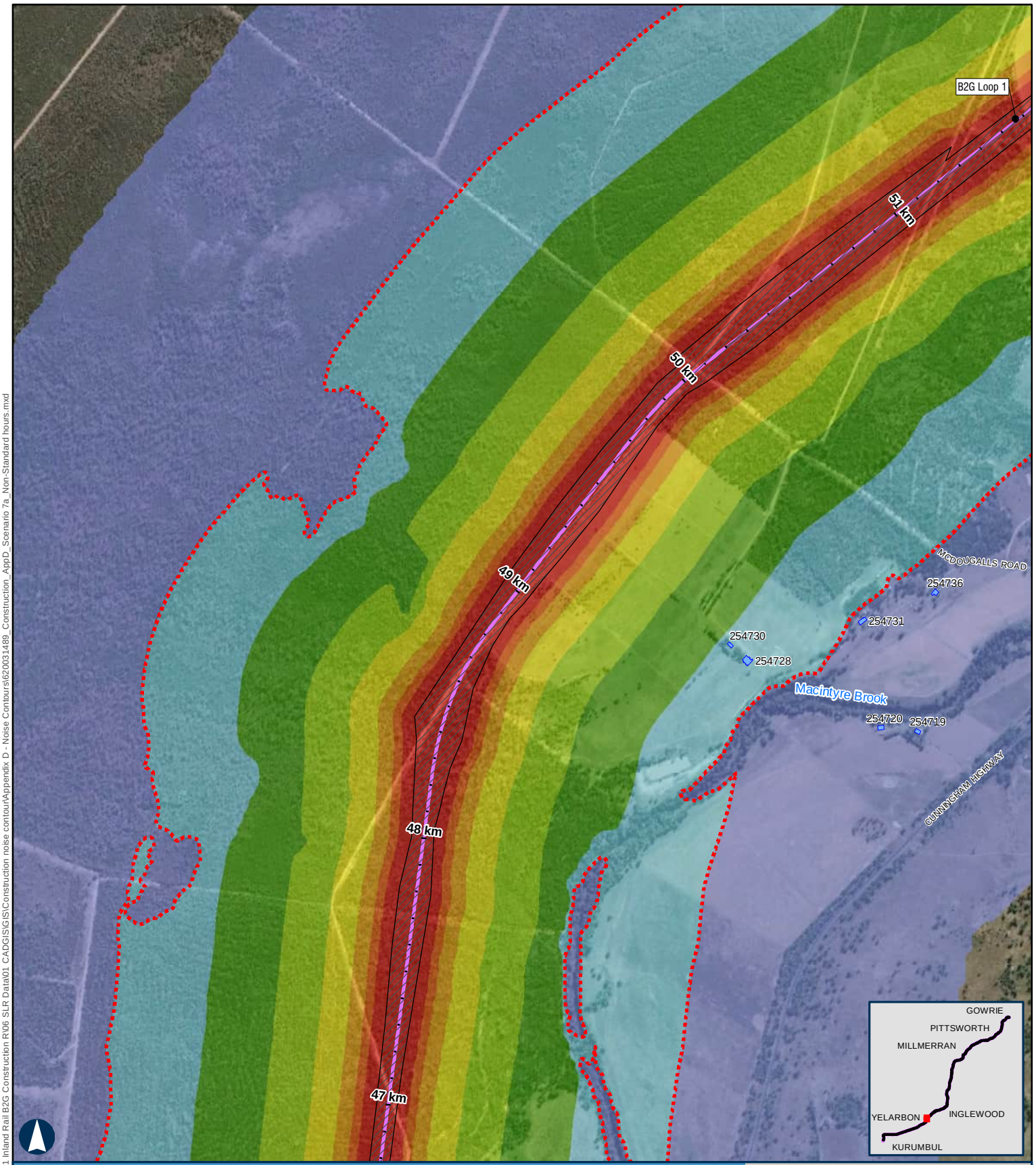

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 17 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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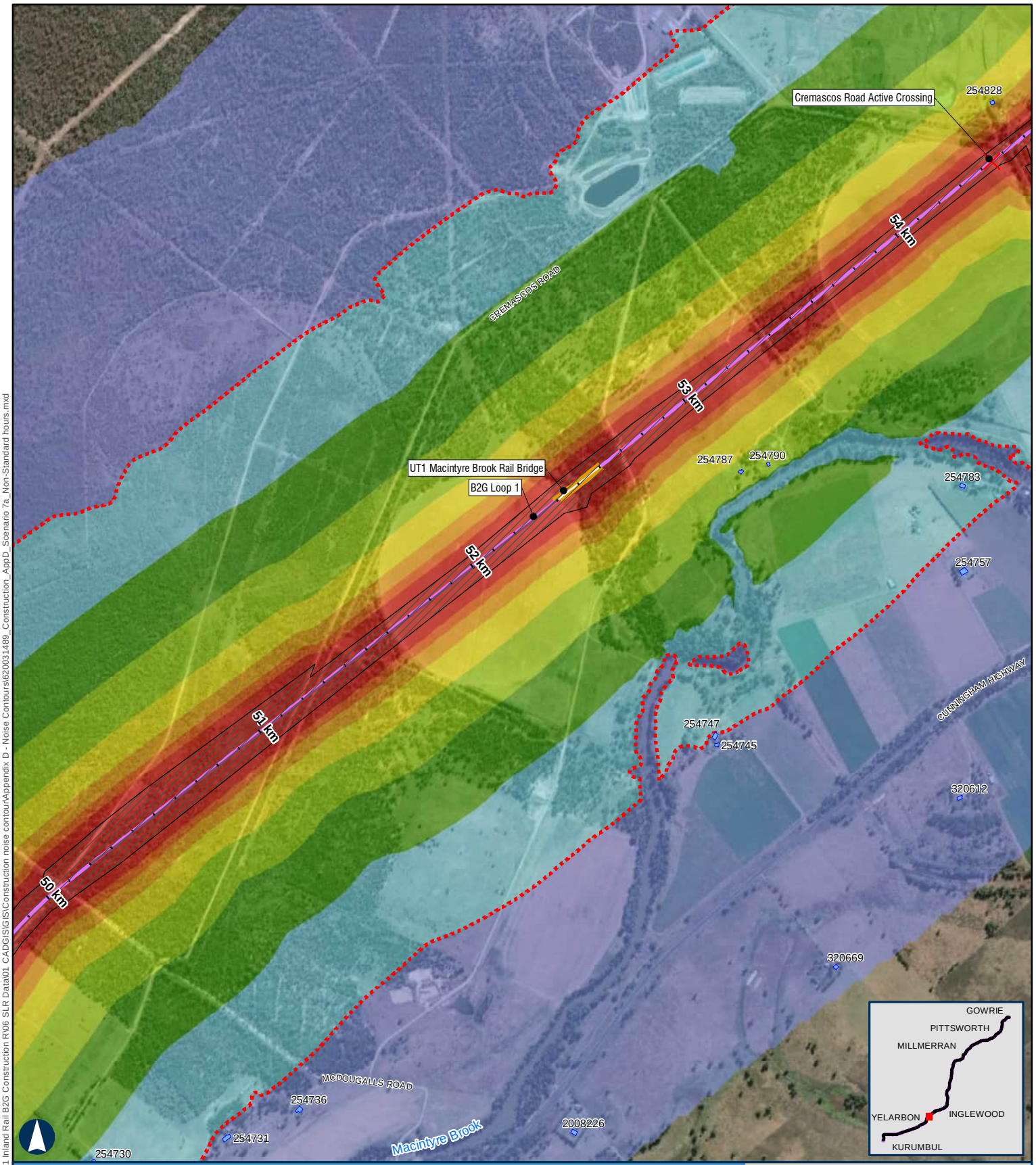

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 18 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
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- Work Area
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Sensitive Receptor Type
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- Commercial
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- Future Developments

Noise Levels
- <45 dBA
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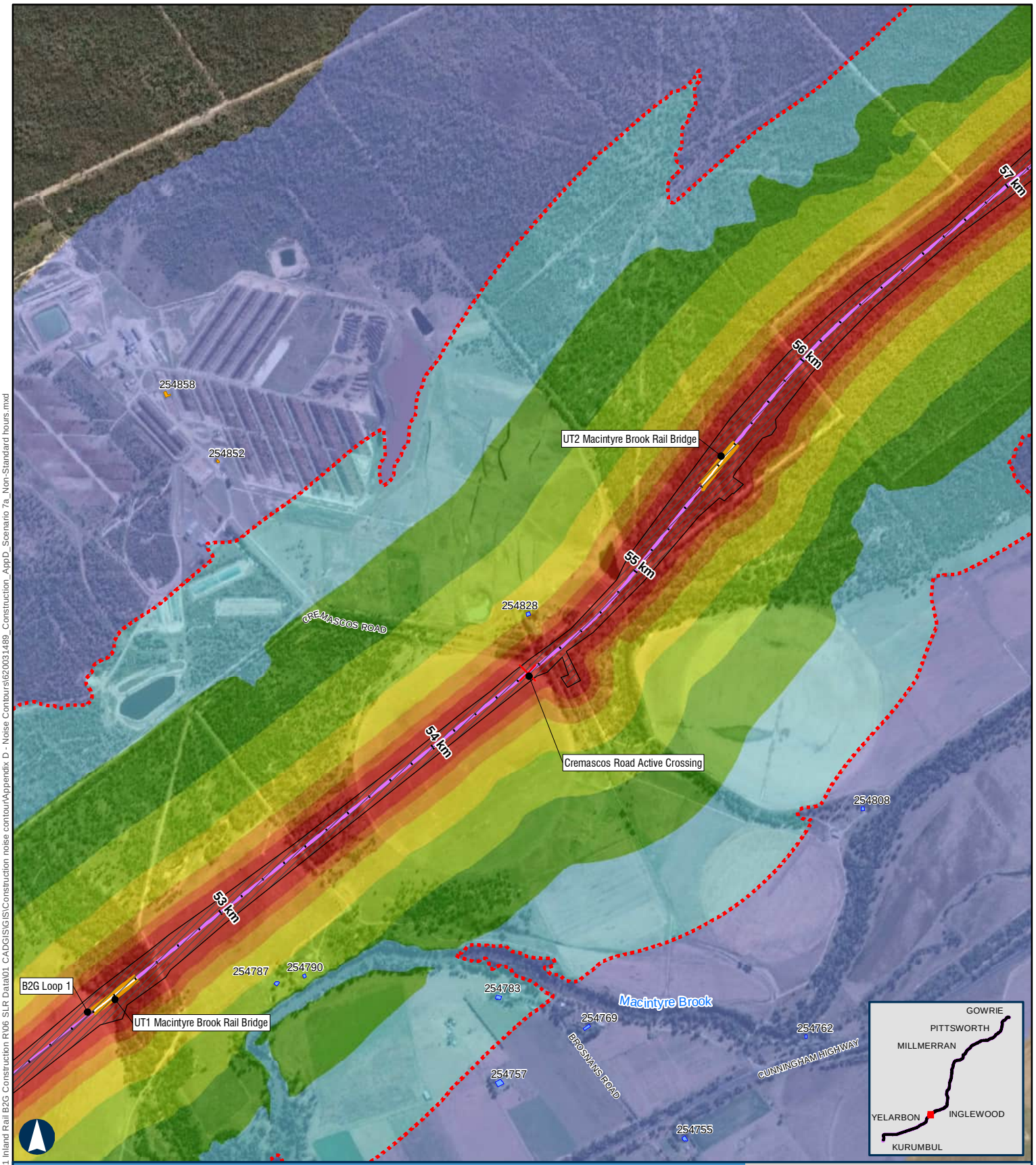

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 19 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

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- Criteria (45 dBA)
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- Work Area
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Sensitive Receptor Type
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- Future Developments

Noise Levels
- <45 dBA
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- 50-55 dBA
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- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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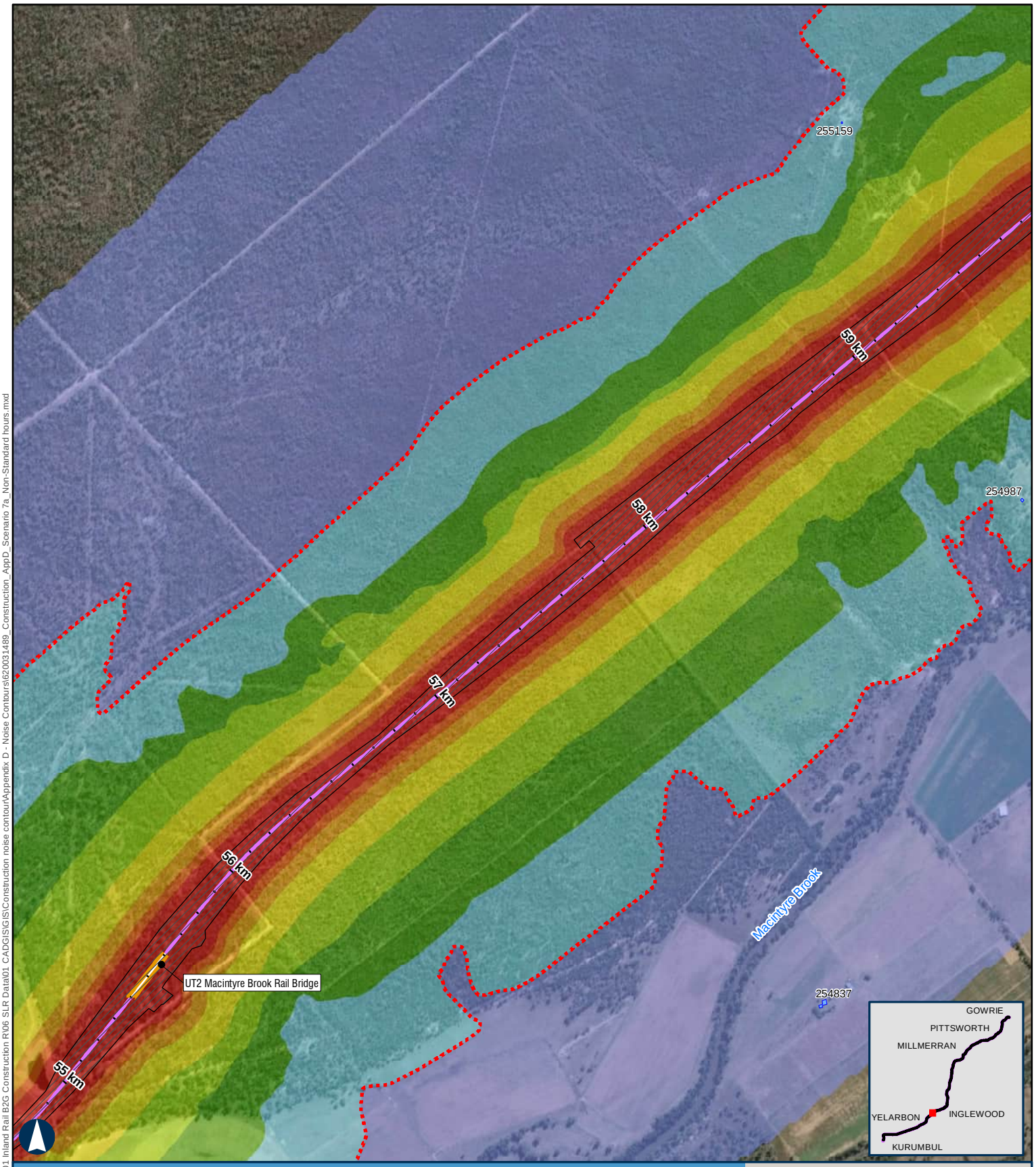

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 20 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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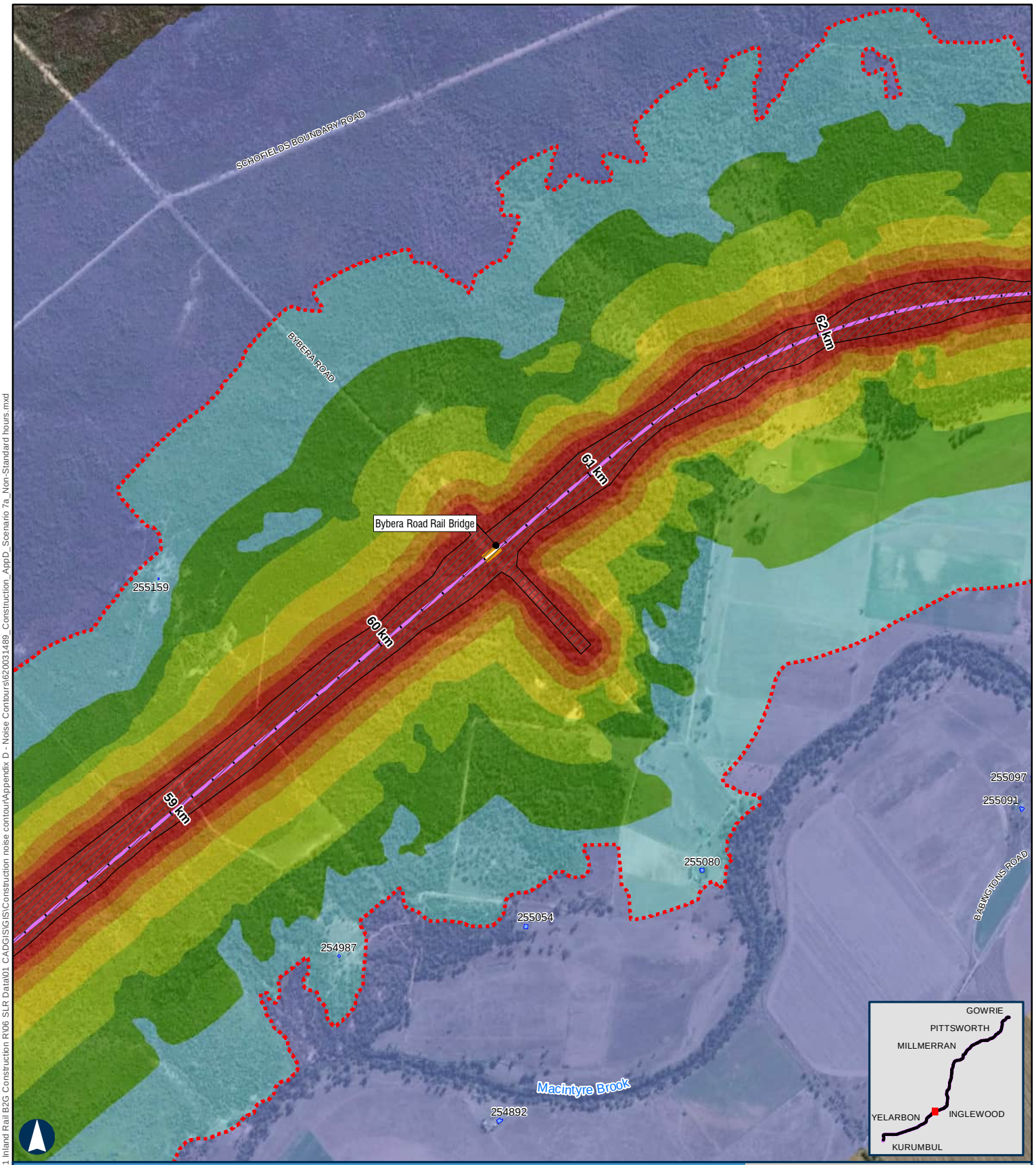

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 21 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

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- Flying Fox Camp
- Criteria (45 dBA)
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- Bridges and Viaducts
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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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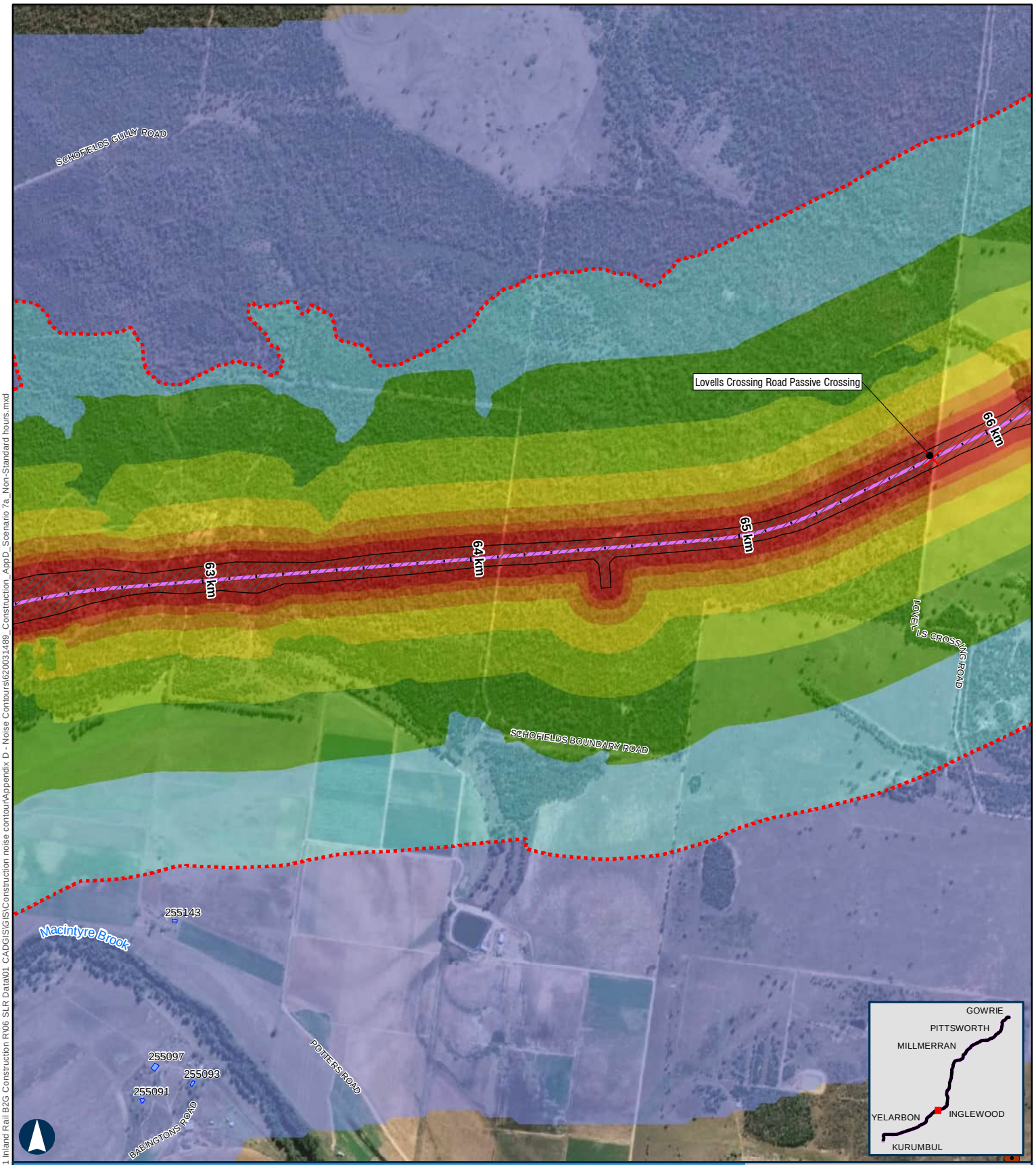

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 22 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Flying Fox Camp
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- Koala Habitat Area

Sensitive Receptor Type
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- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
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- 65-70 dBA
- 70-75 dBA
- >75 dBA

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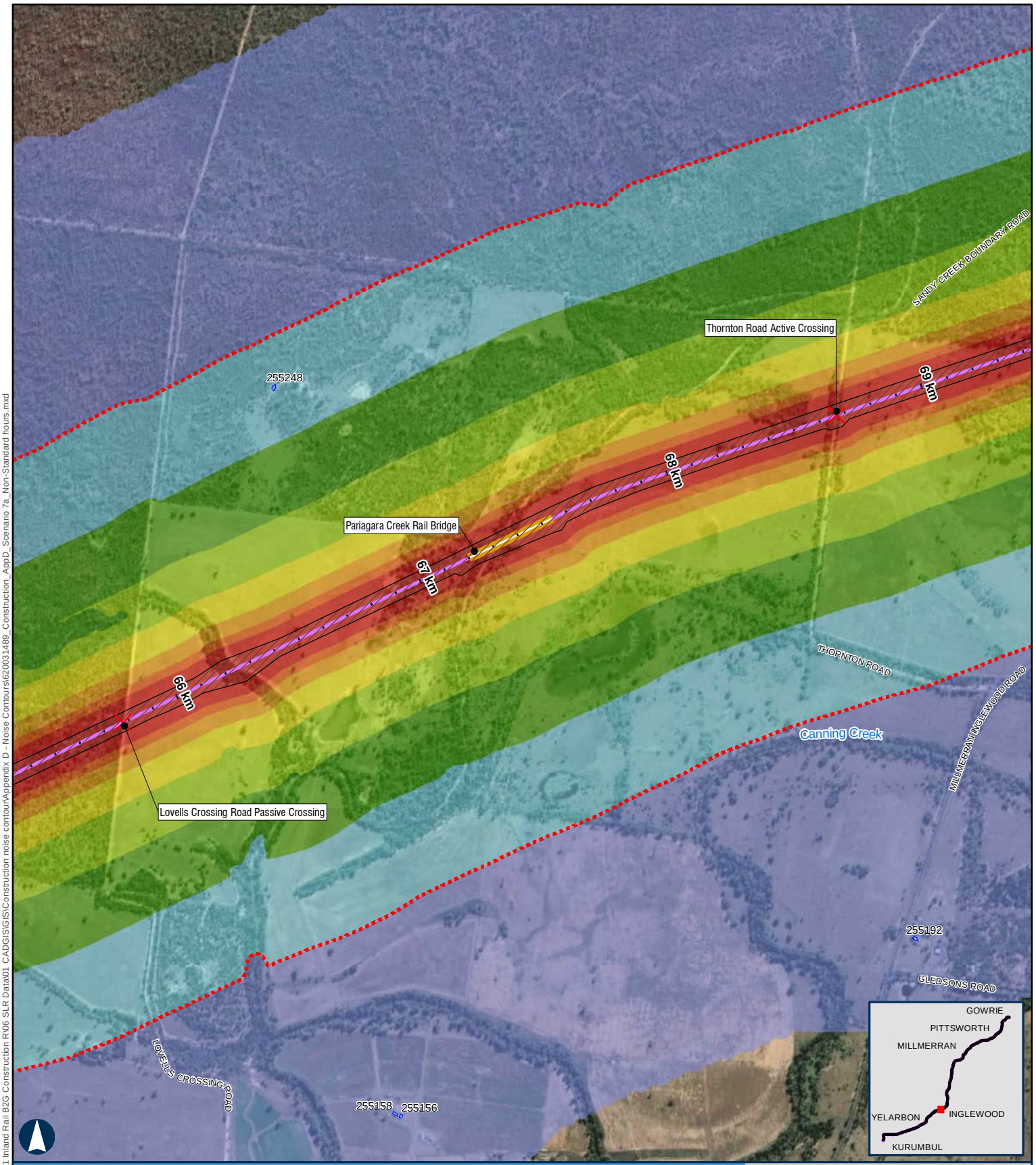

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 23 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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- Flying Fox Camp
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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- >75 dBA

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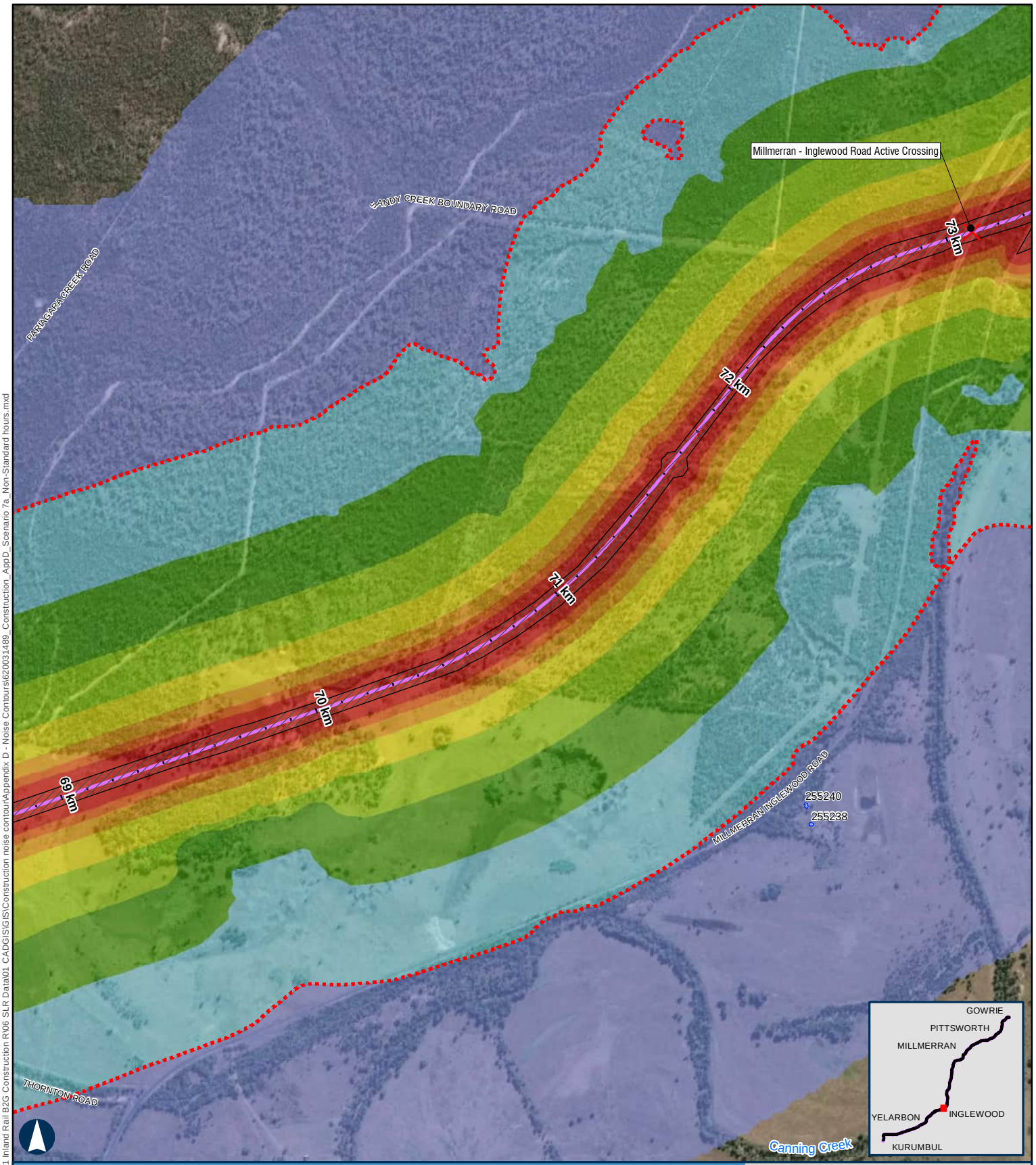

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 24 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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- 65-70 dBA
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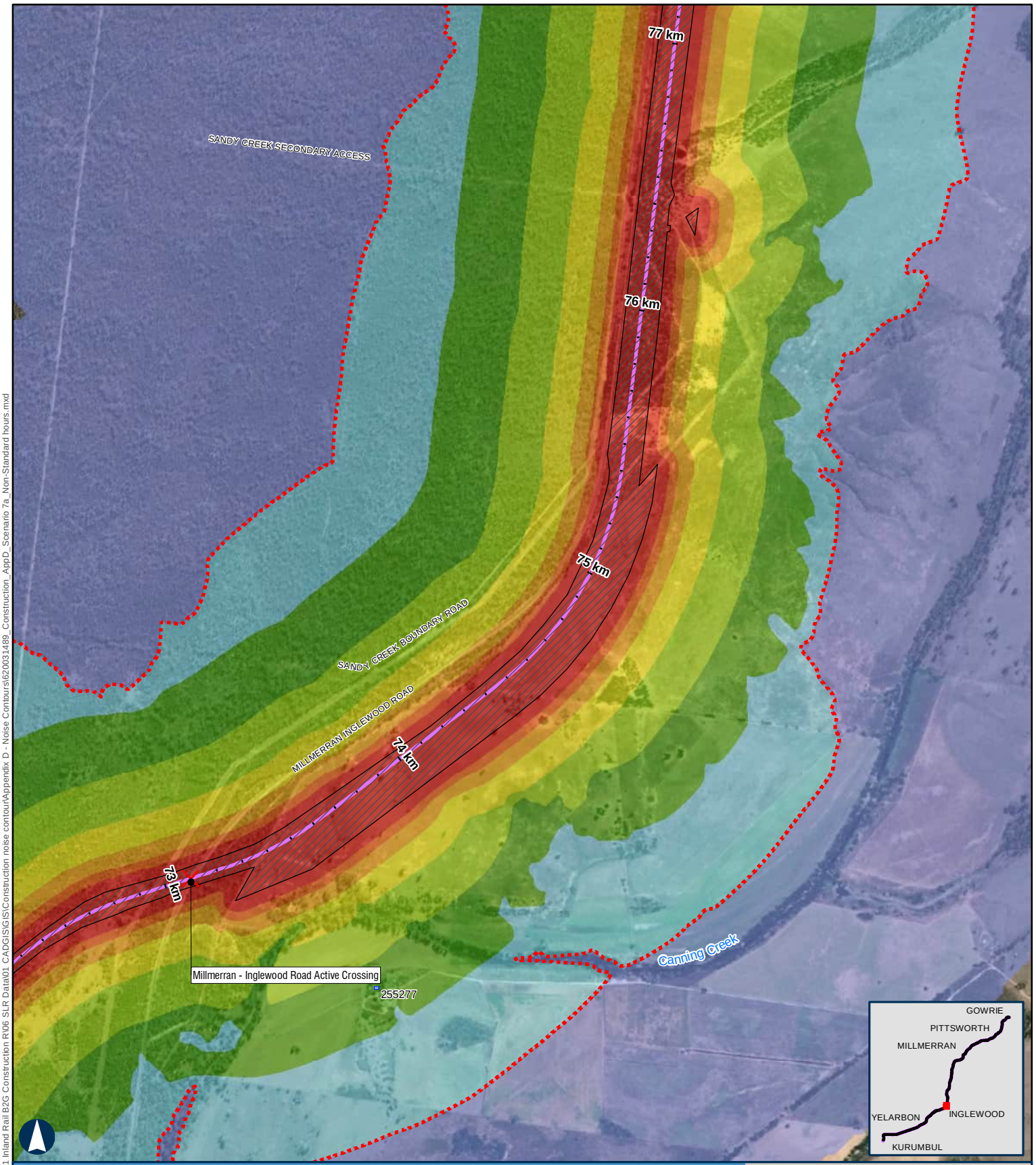

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 25 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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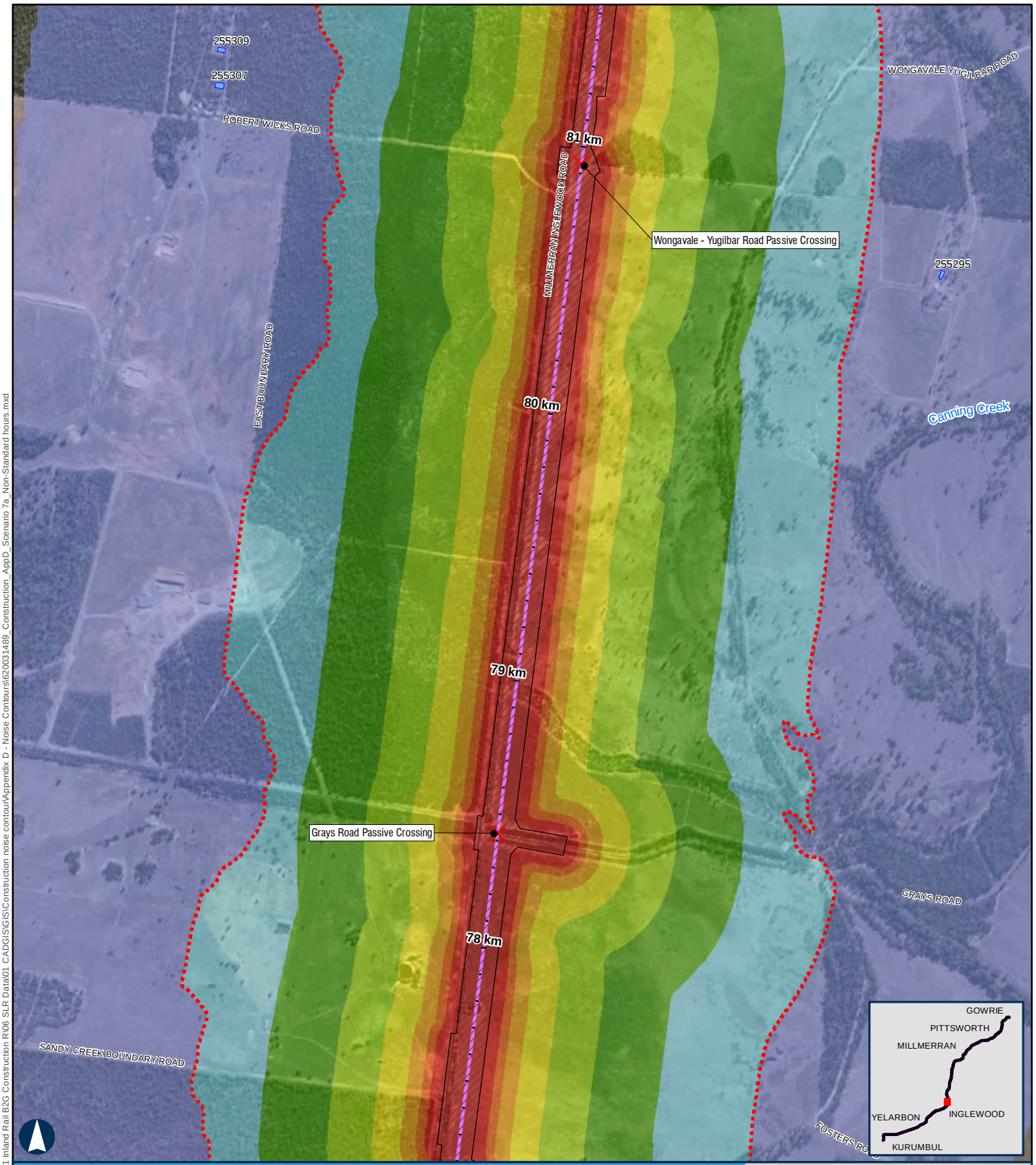

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 26 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
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- Crossing Loops
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- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
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- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
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- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
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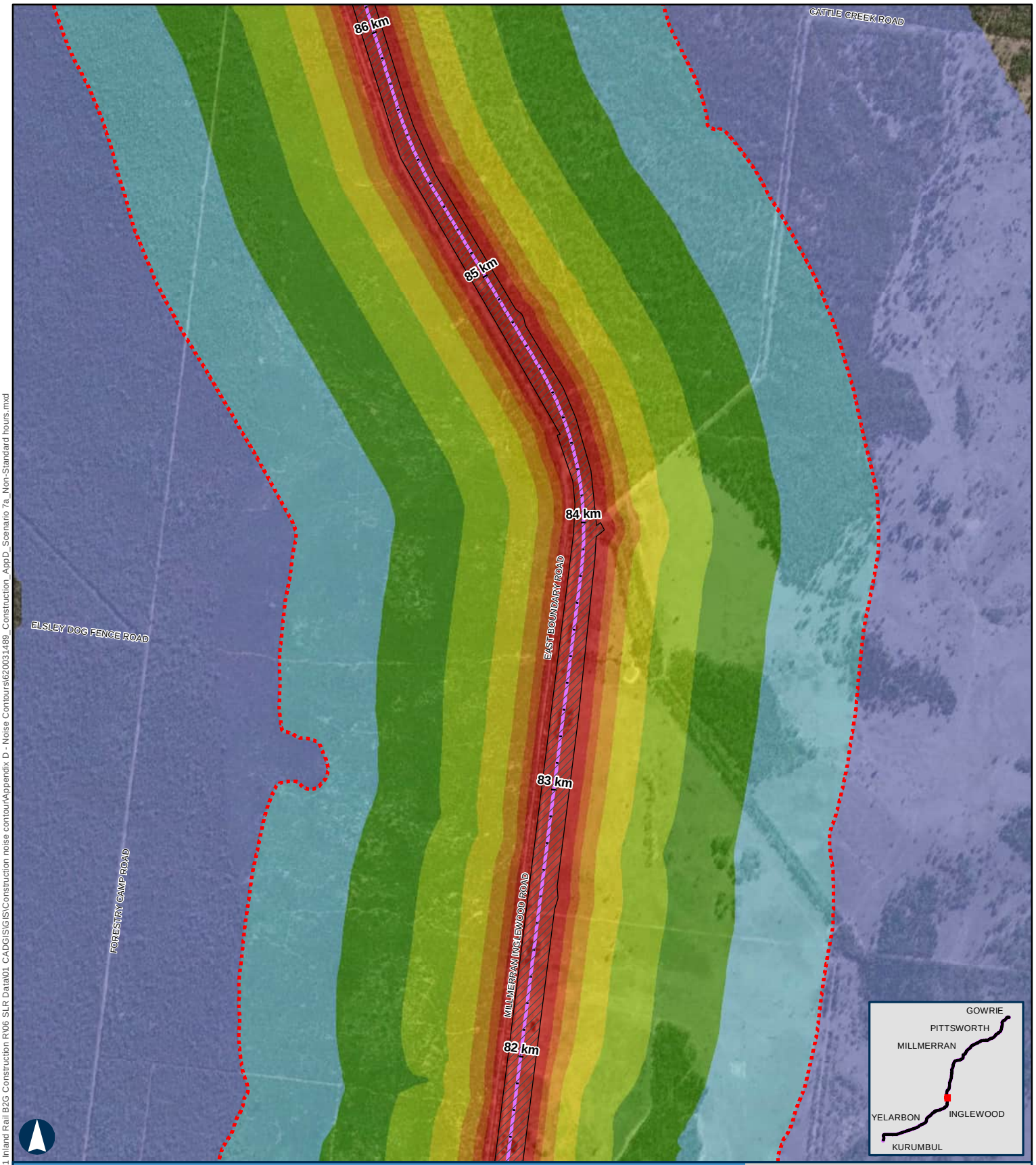

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 27 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
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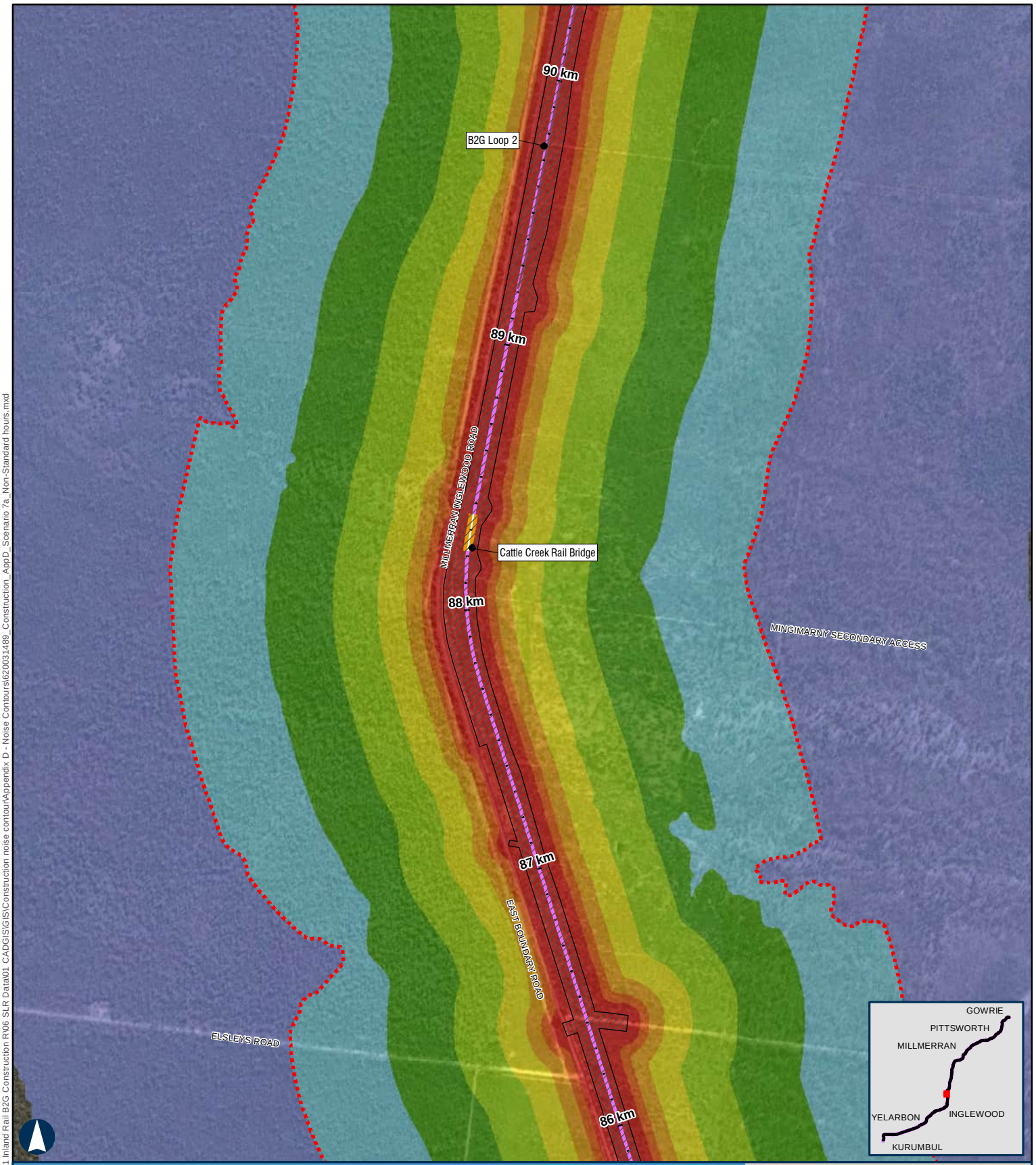

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 28 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
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- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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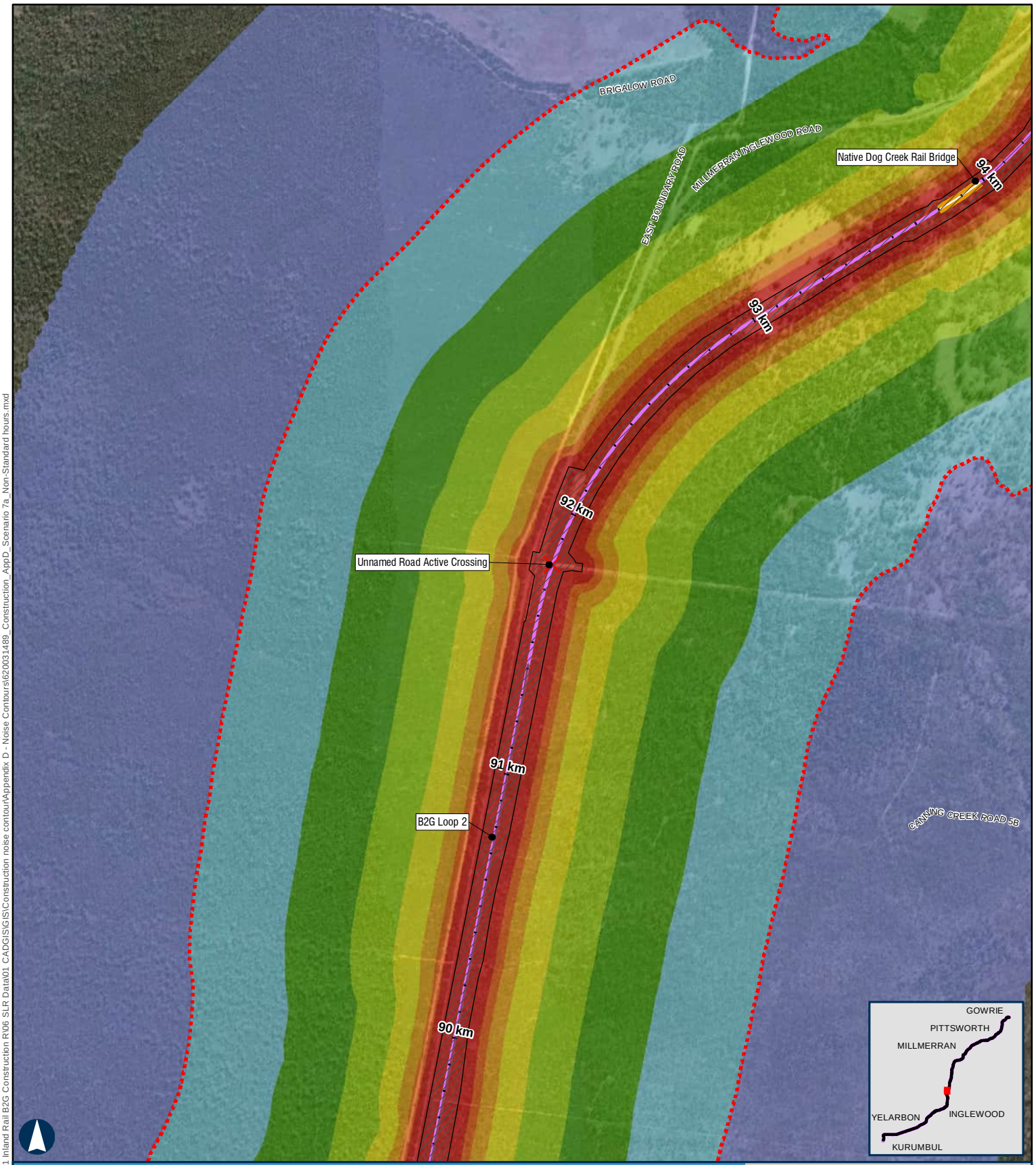

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 29 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

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Noise Levels
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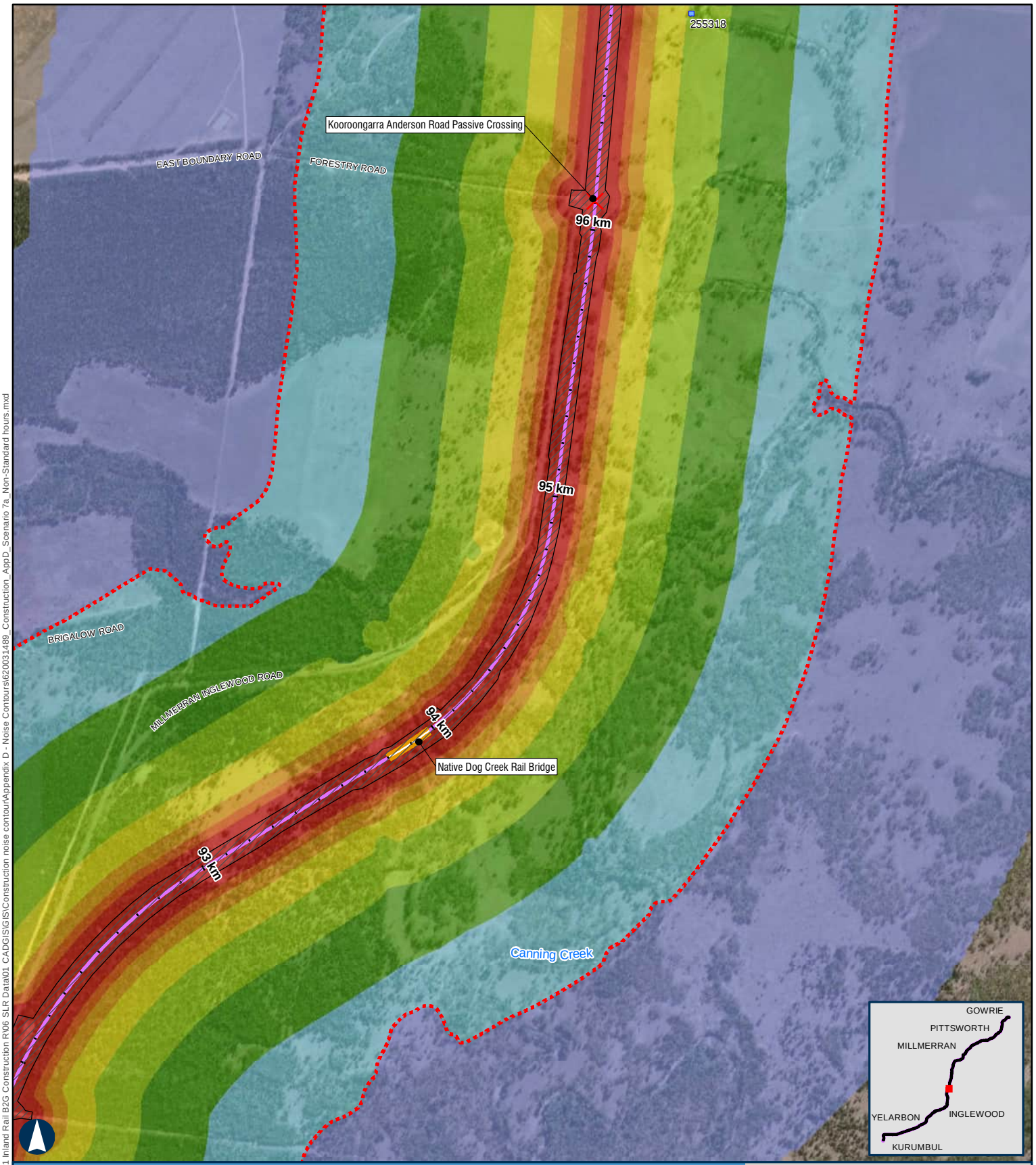

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 30 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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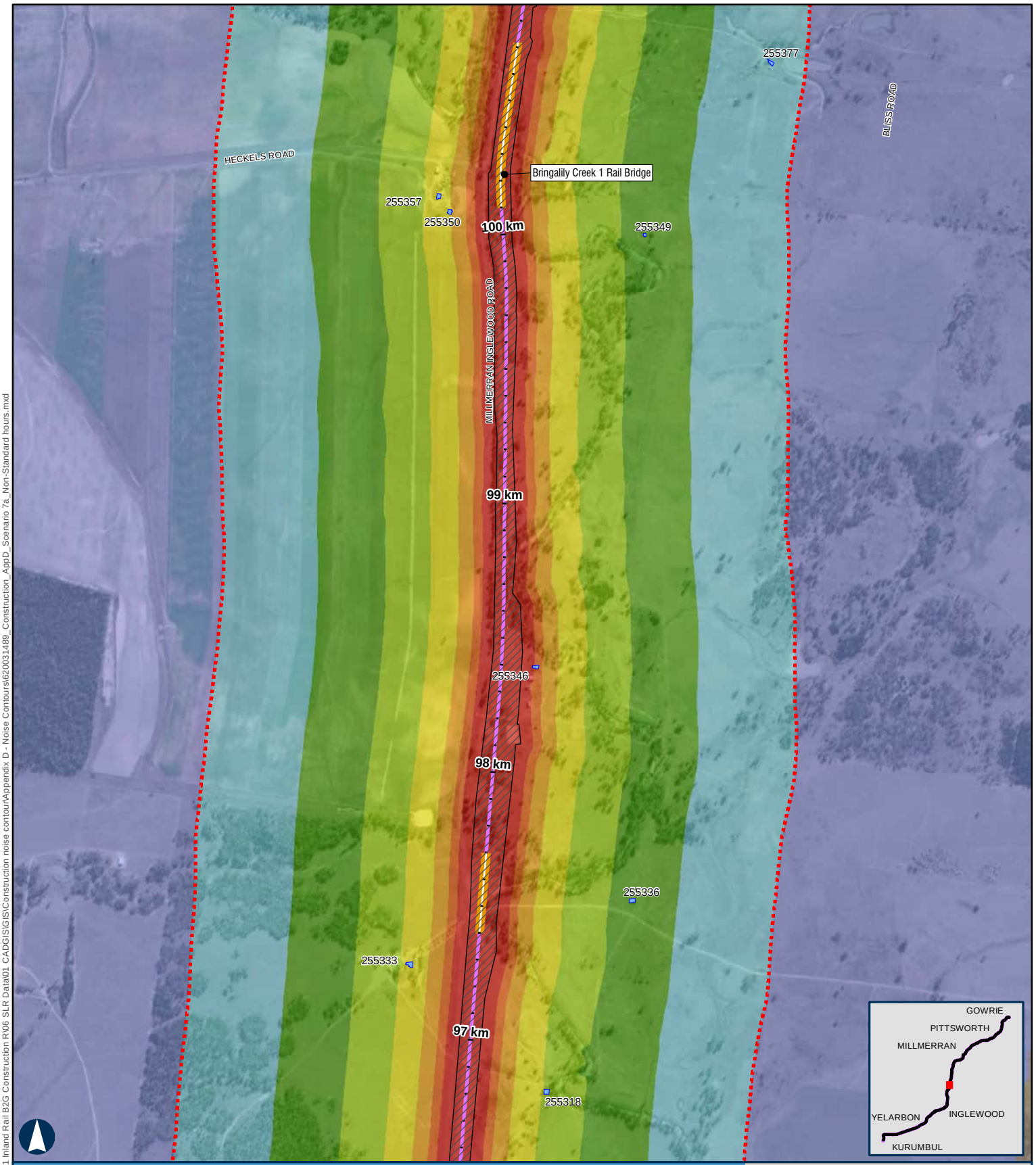

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 31 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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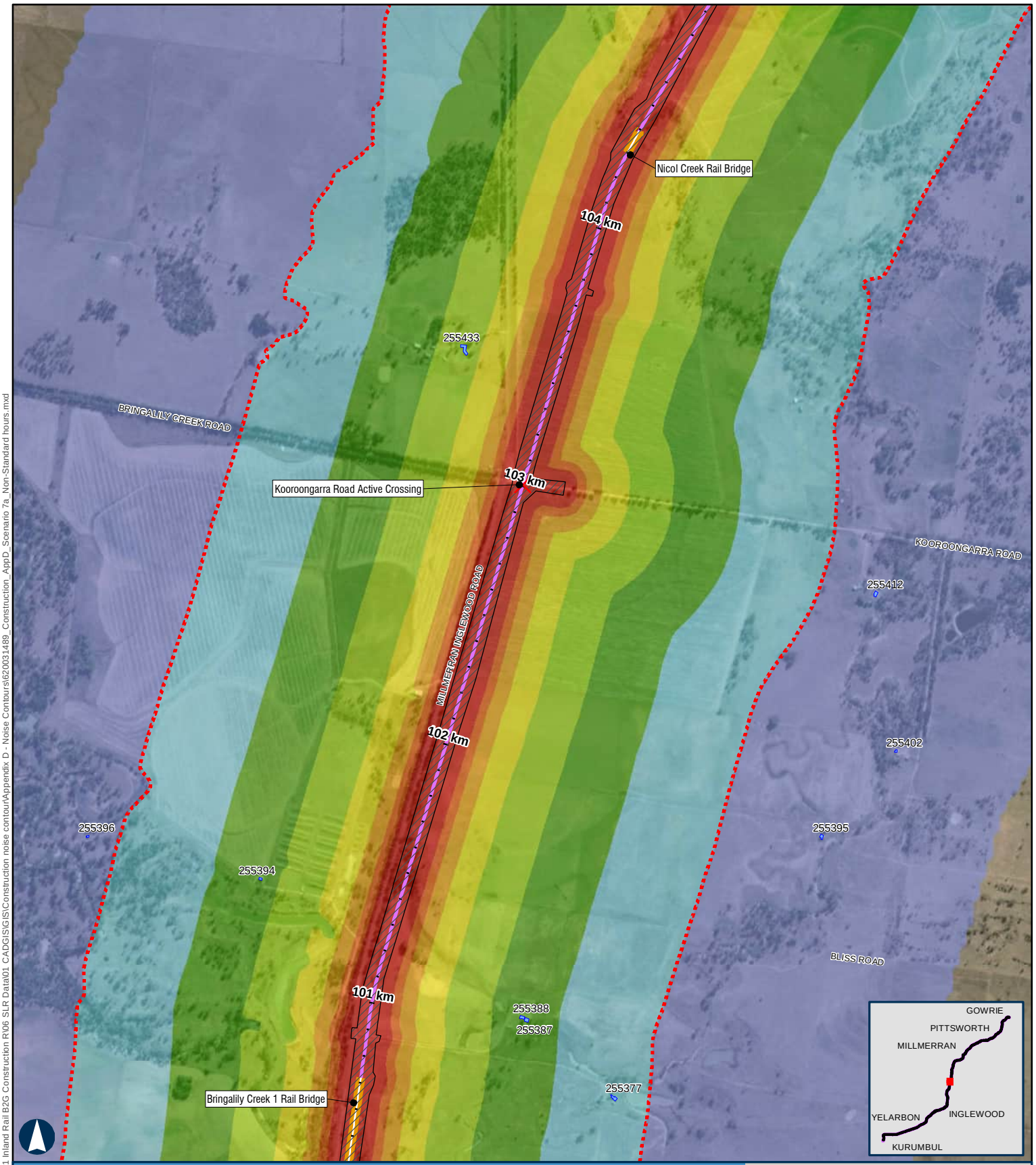

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 32 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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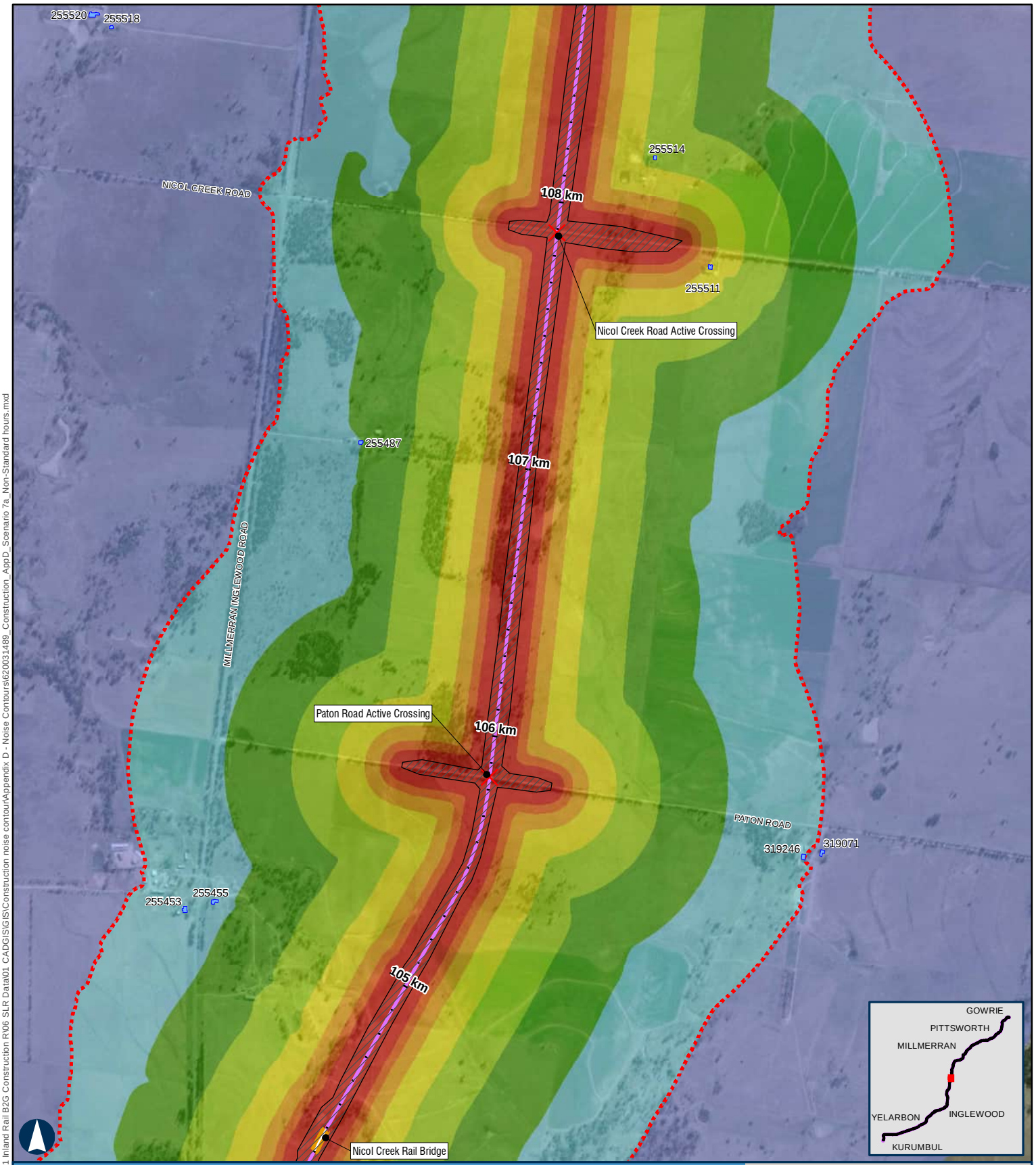

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 33 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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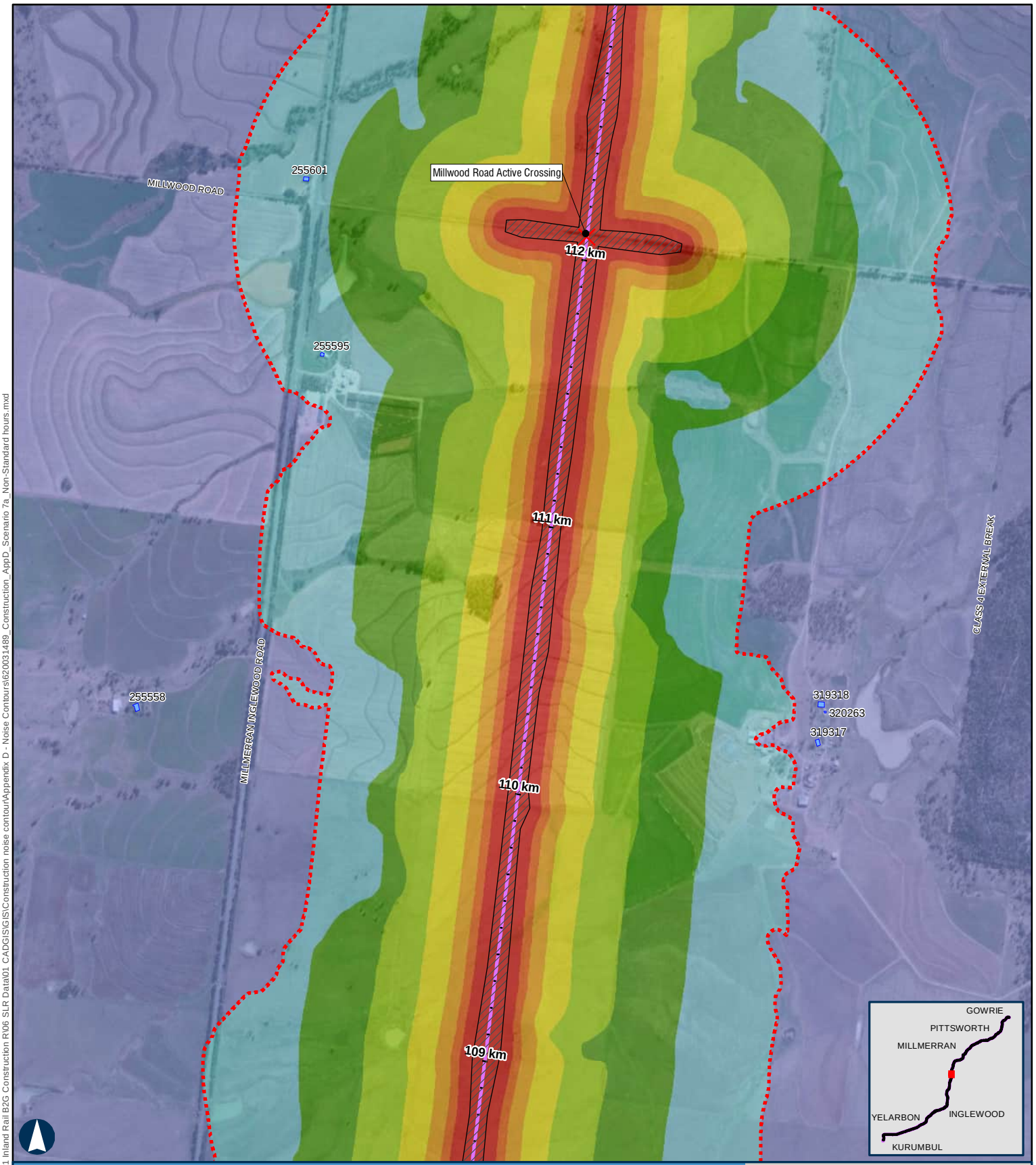

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 34 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Sensitive Receptor Type
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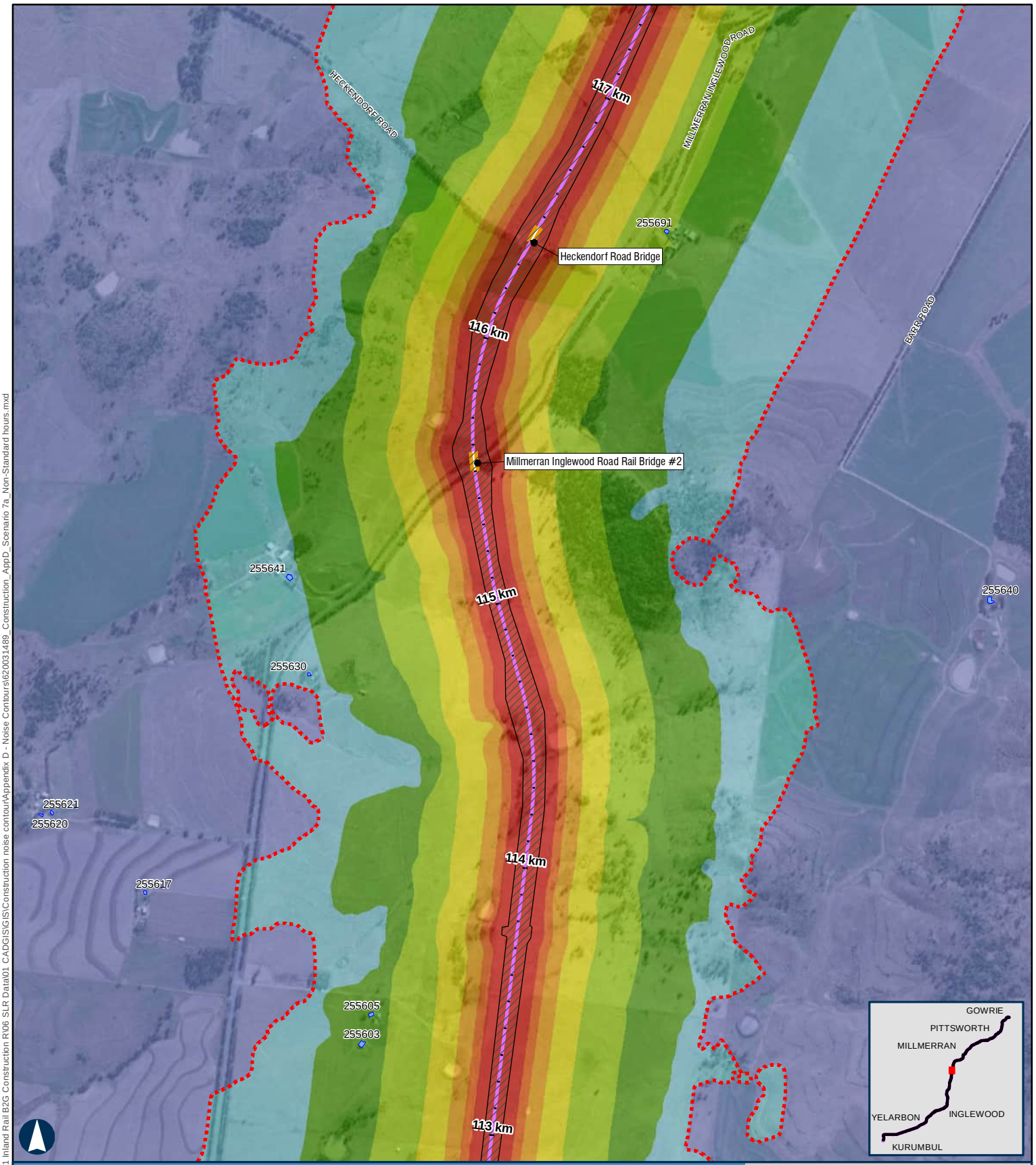

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 35 OF 67

100 m

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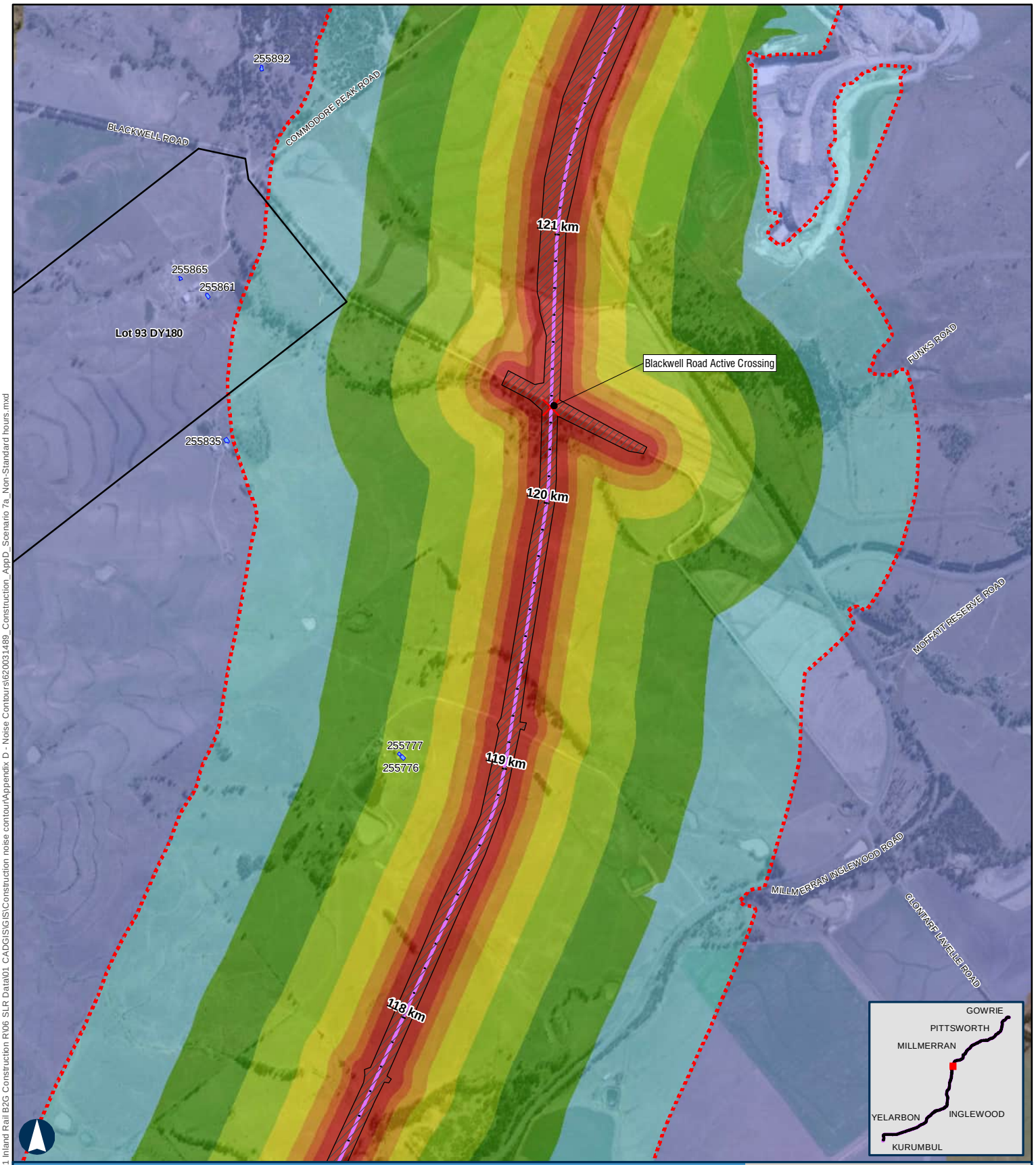

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 36 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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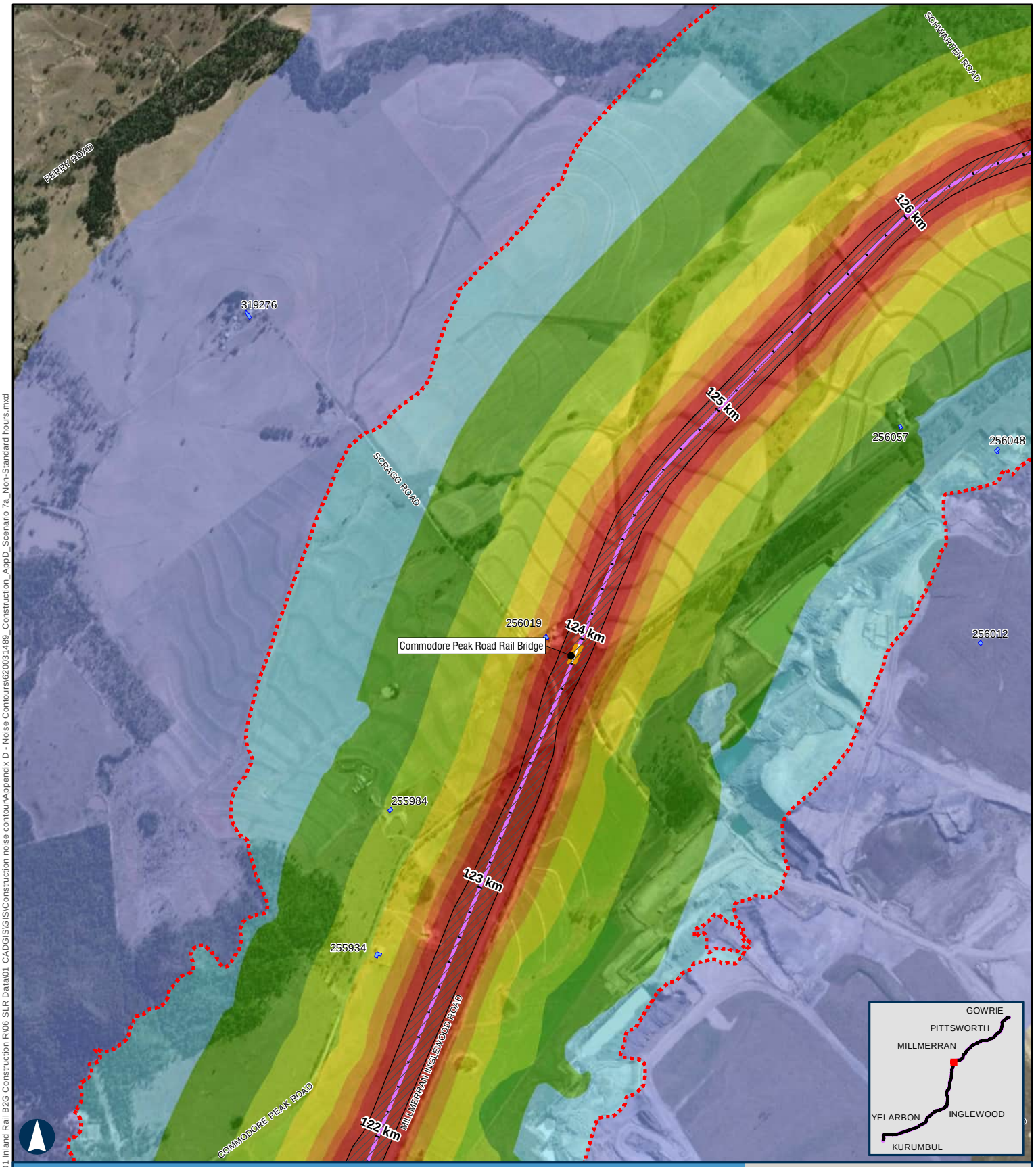

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 37 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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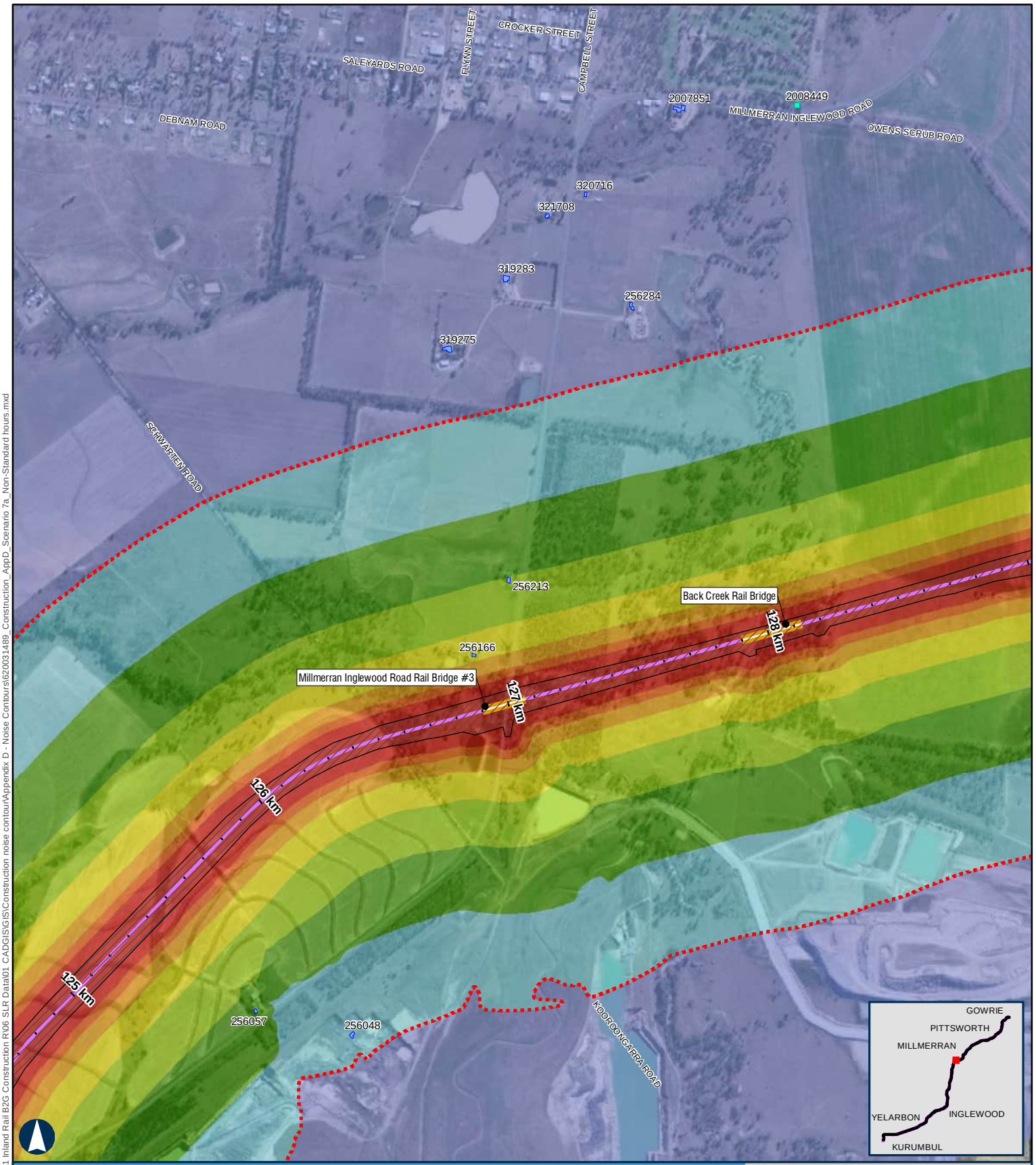

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 38 OF 67

100 m

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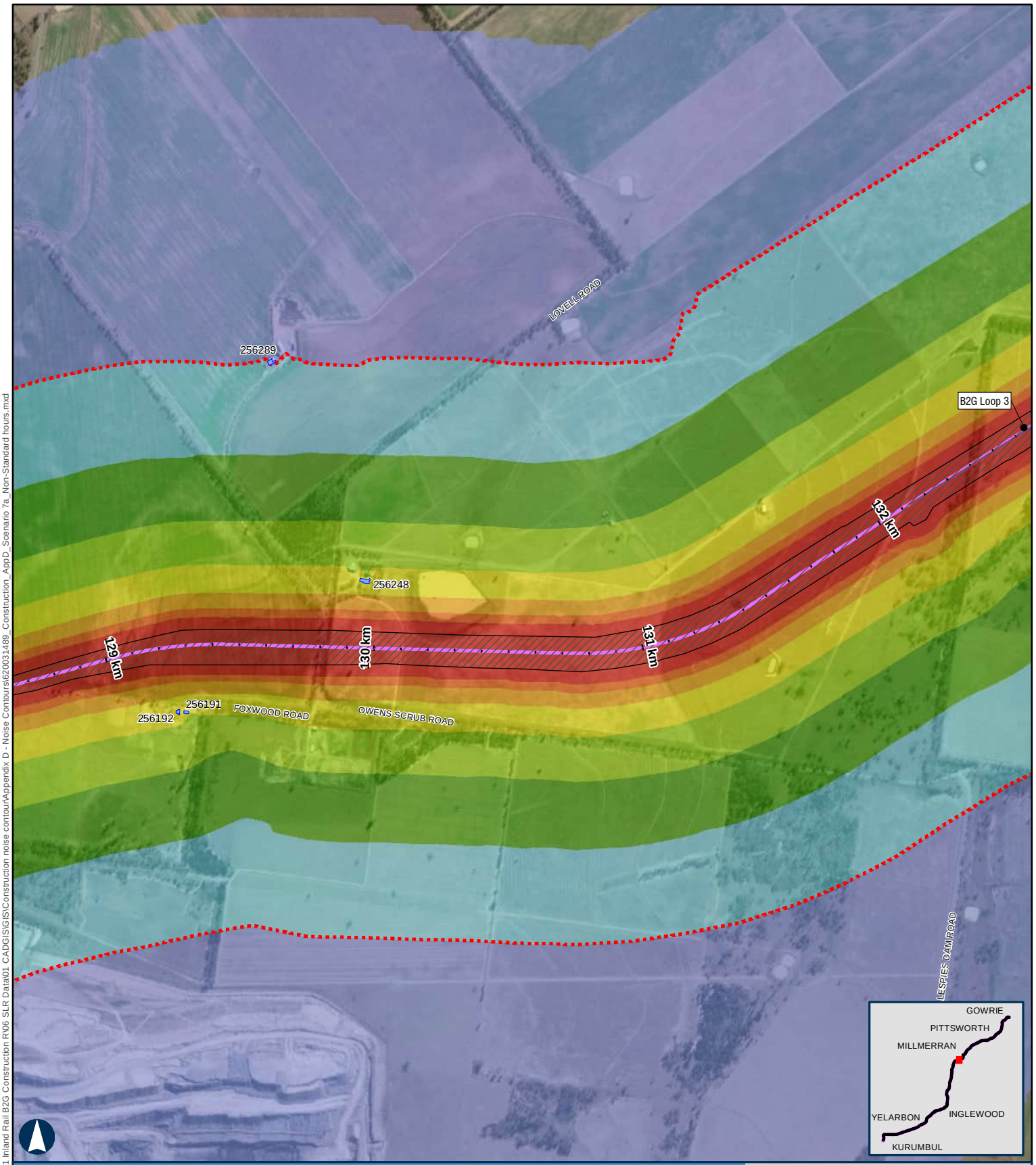

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 39 OF 67

100 m

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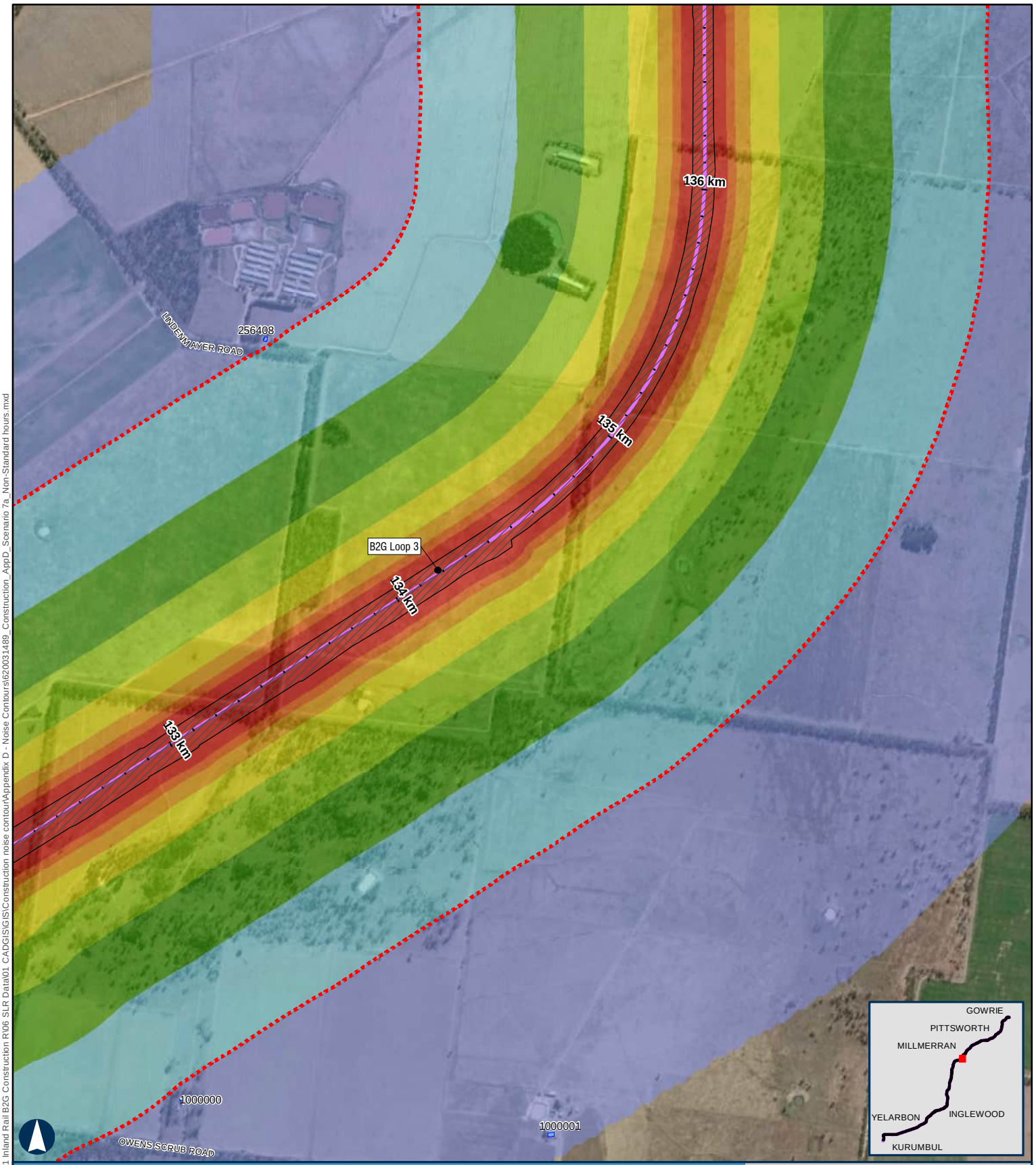

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 40 OF 67

100 m

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Noise Levels
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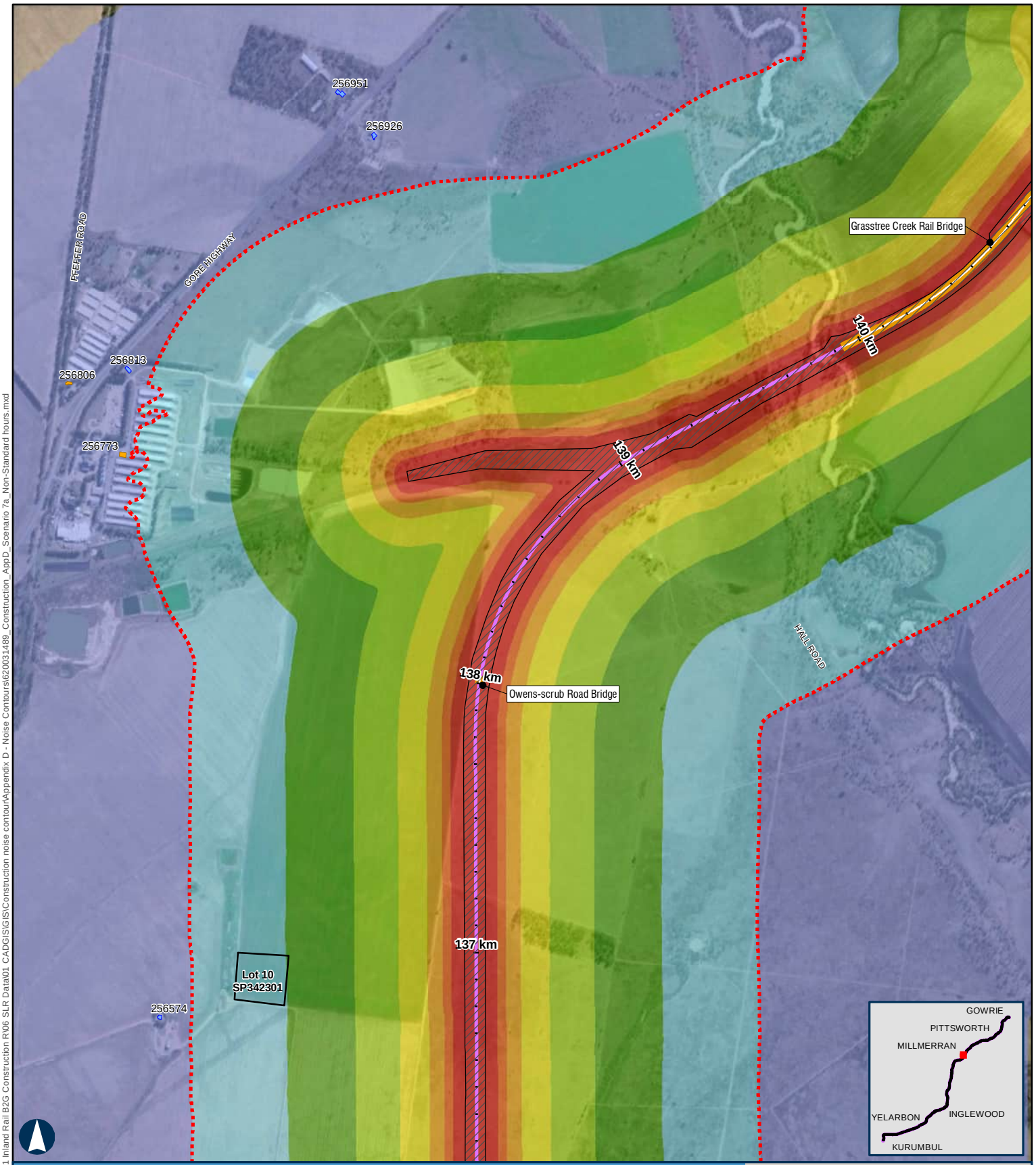

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 41 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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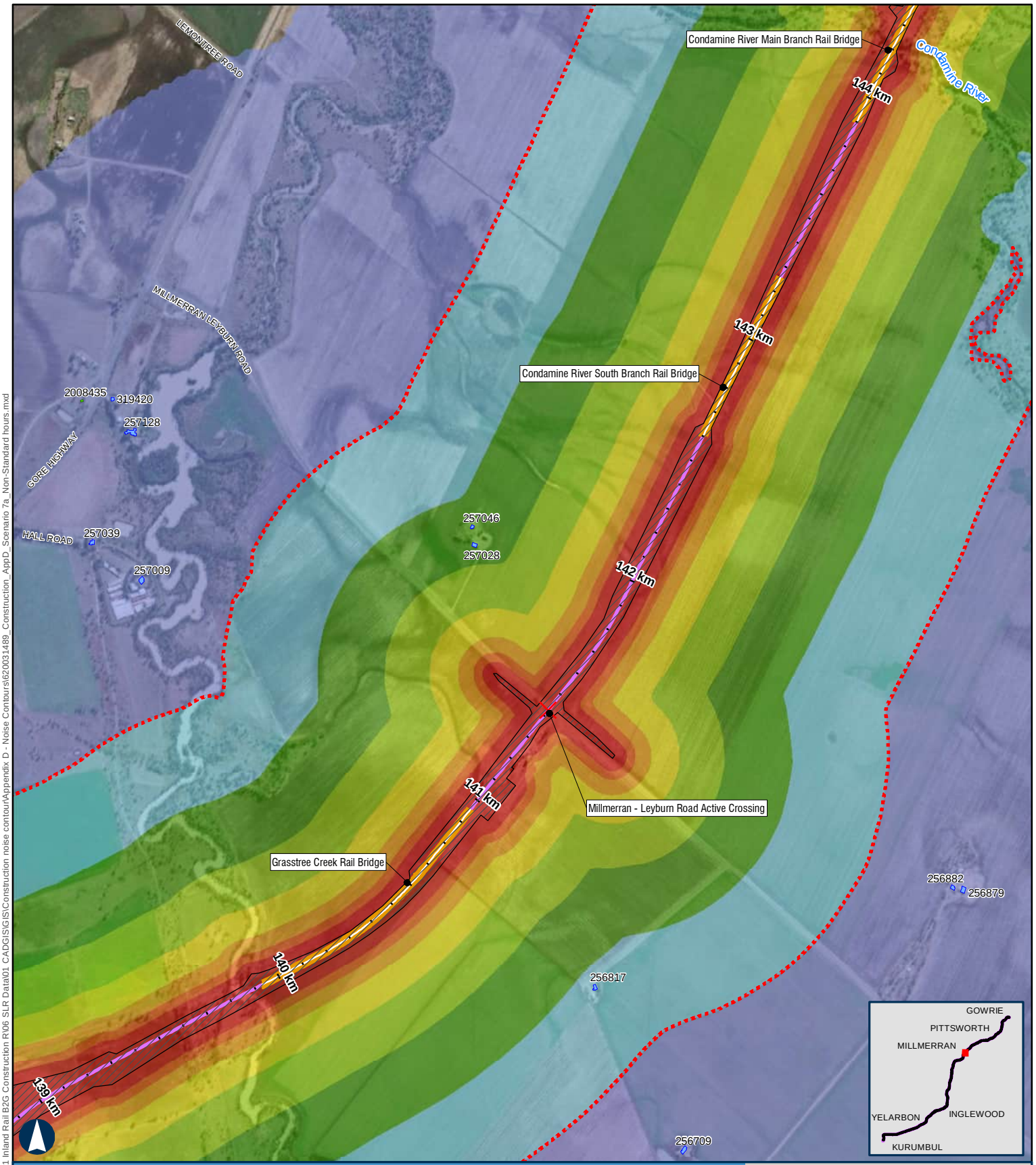

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 42 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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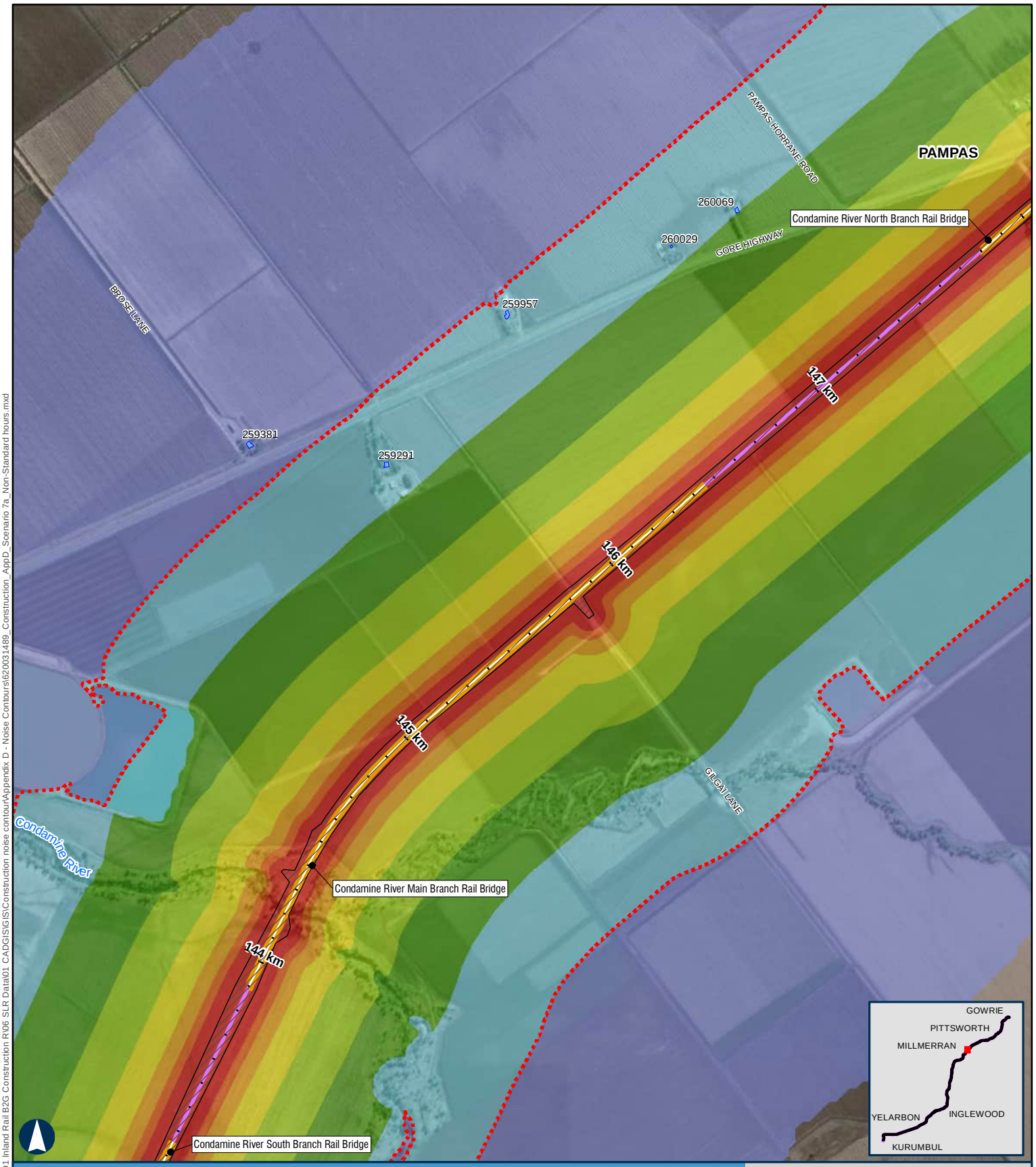

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 43 OF 67

100 m

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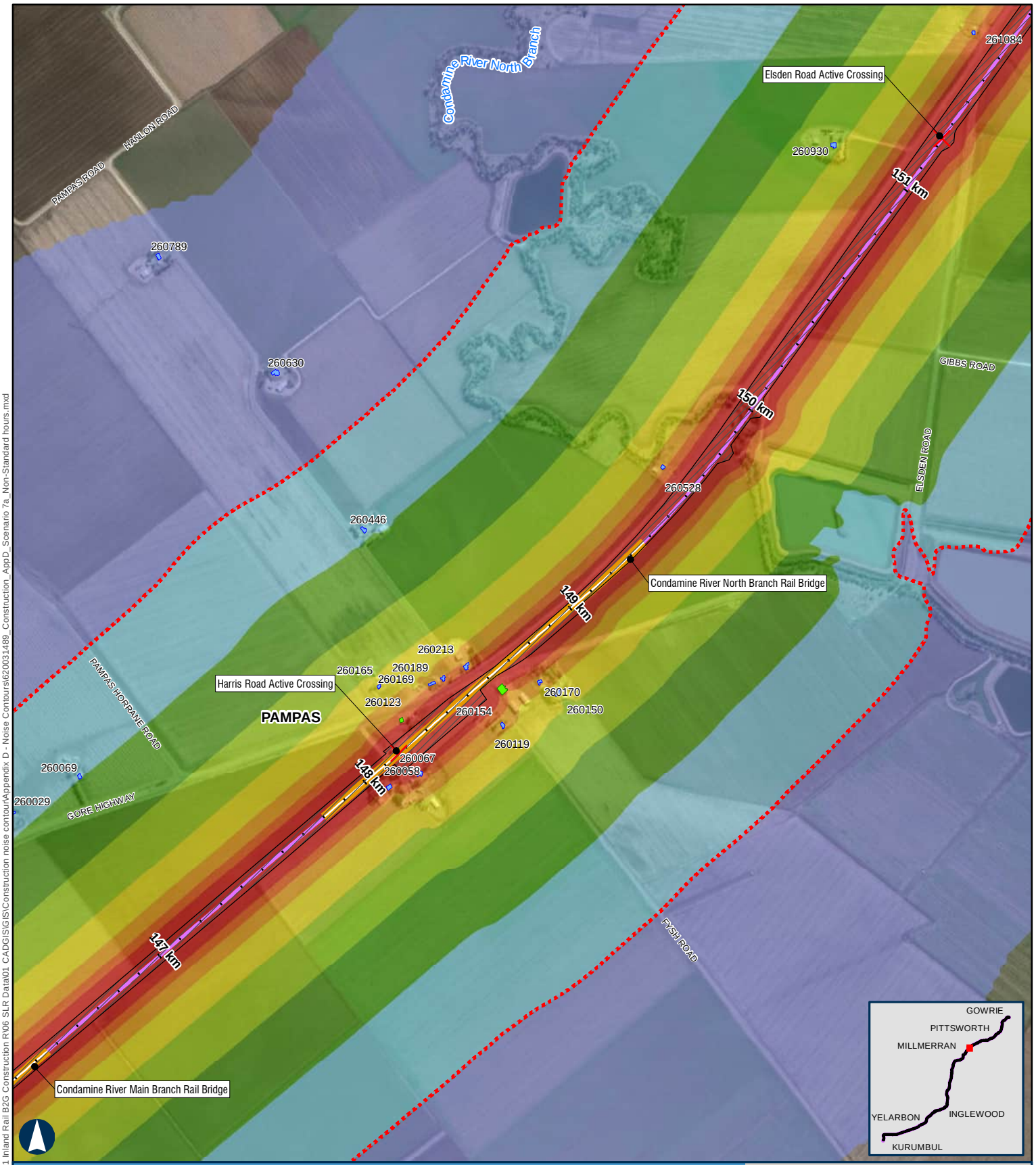

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 44 OF 67

100 m

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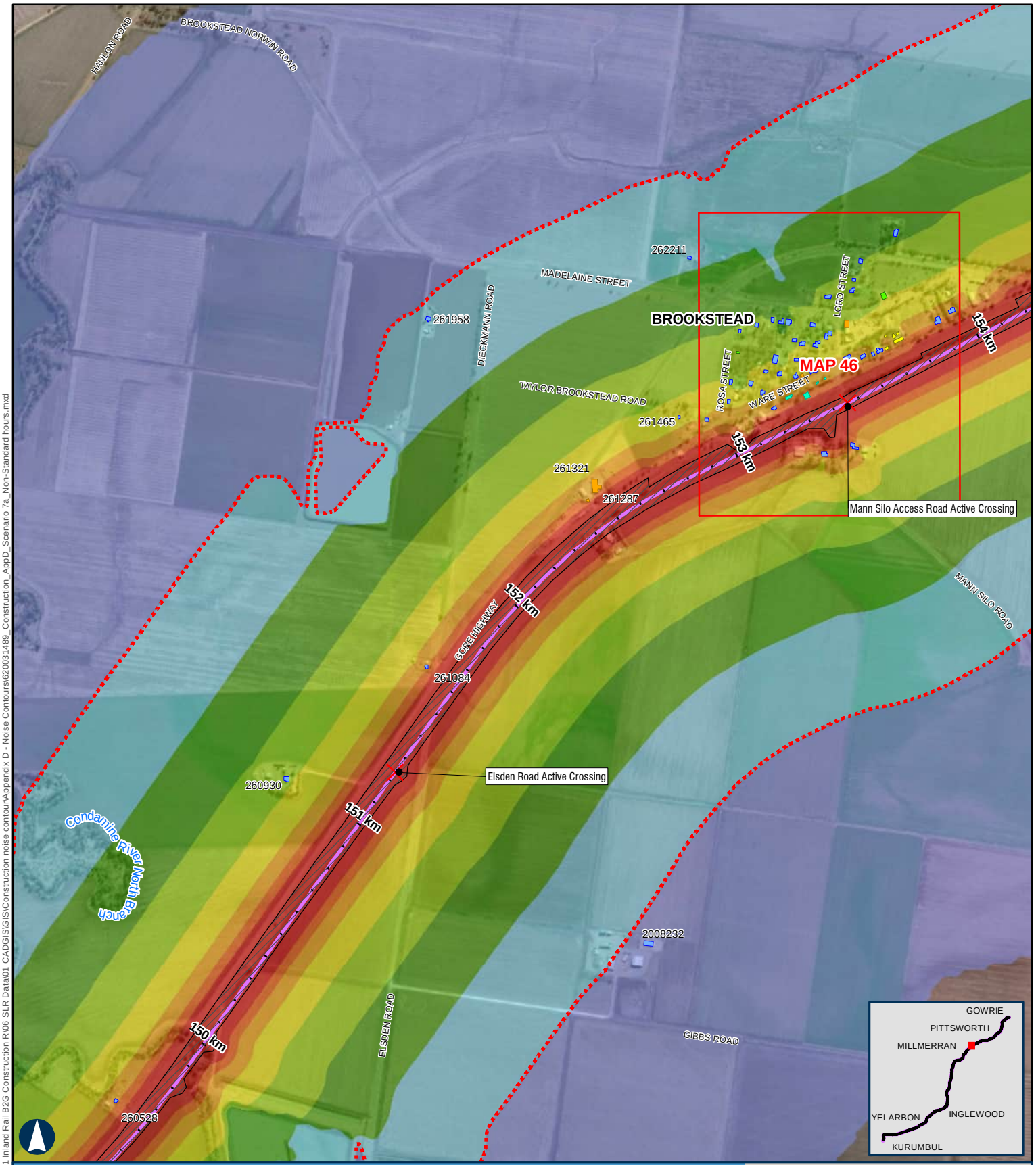

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 45 OF 67

100 m

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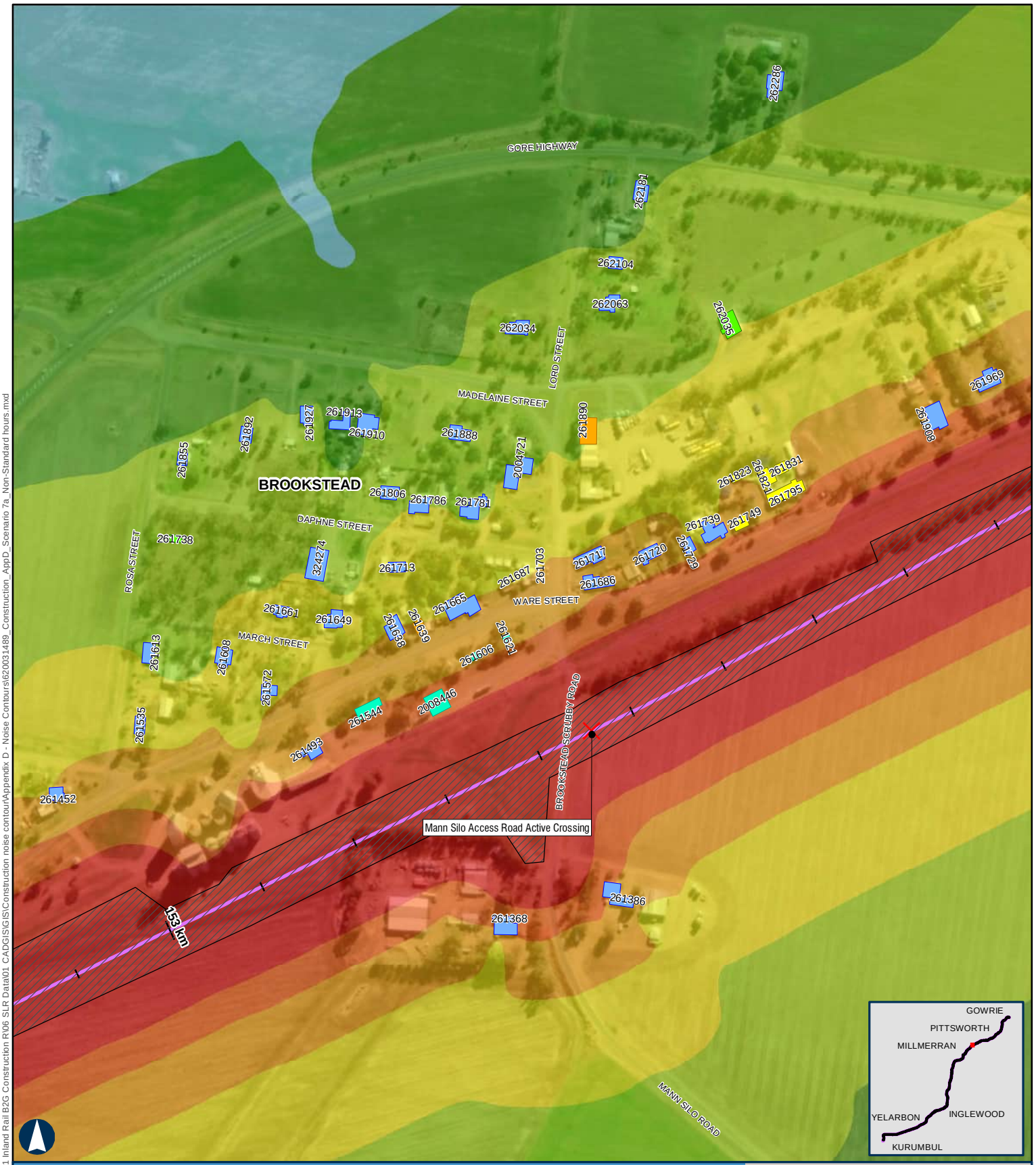

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 46 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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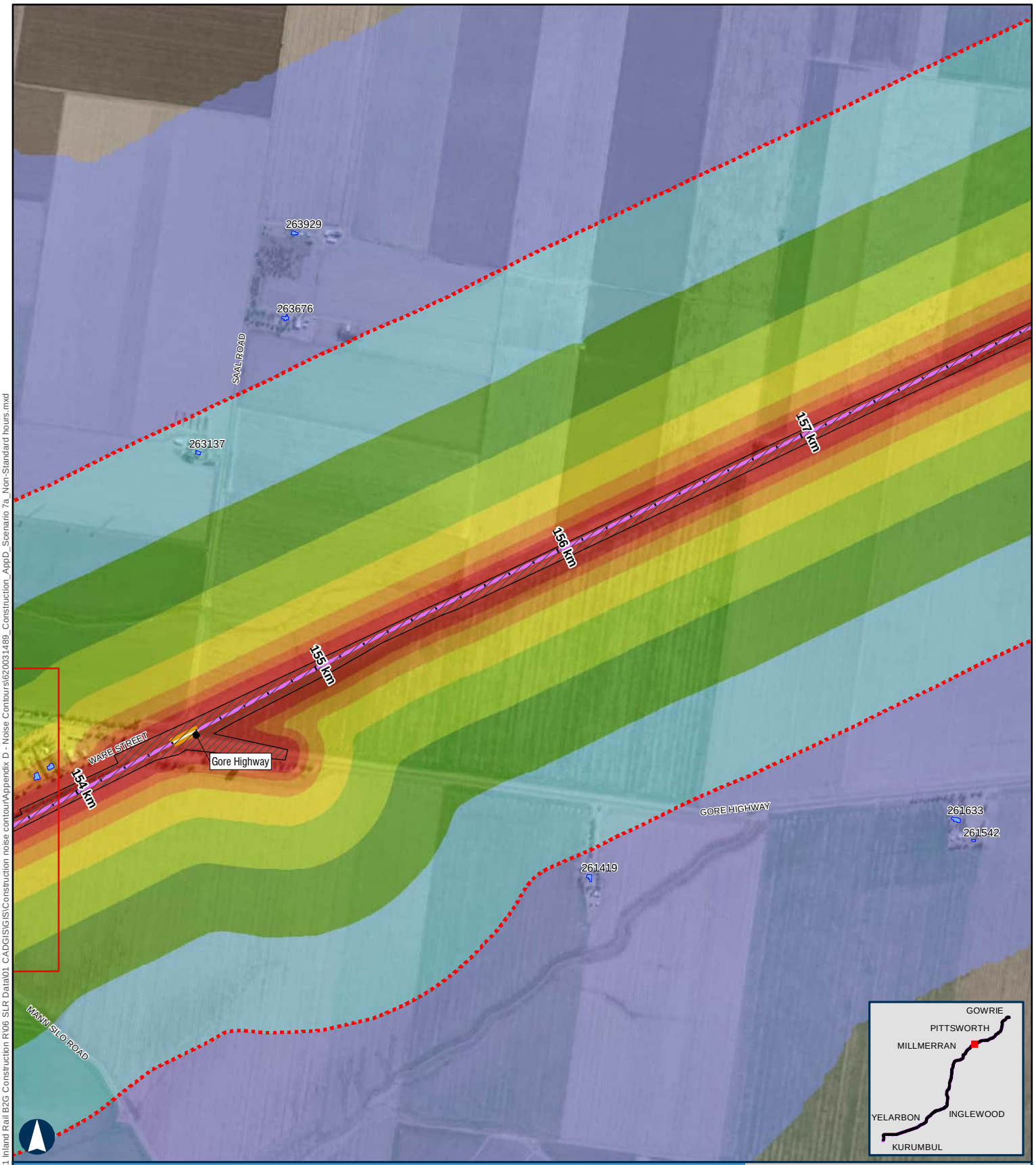

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 47 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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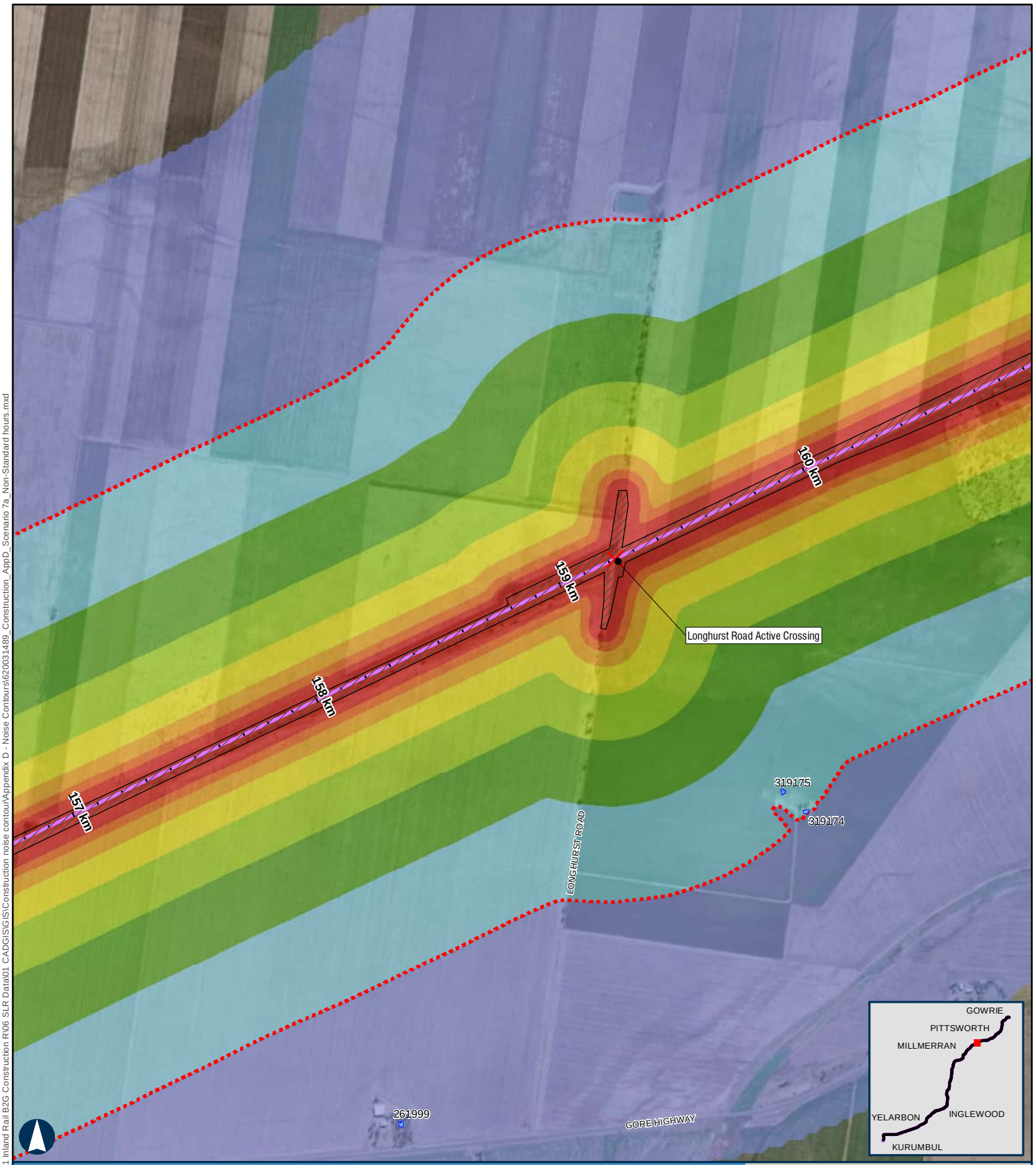

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 48 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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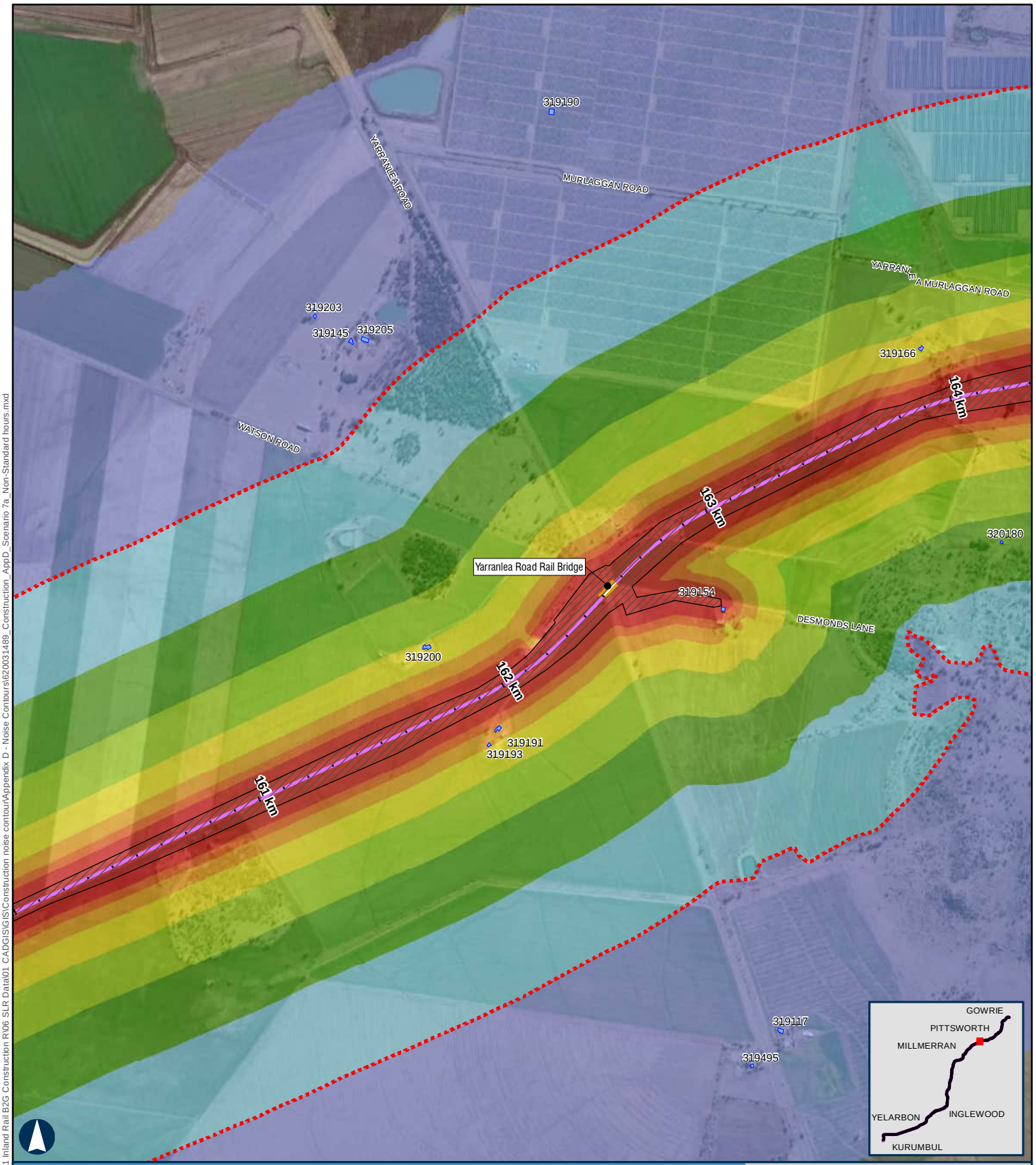

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 49 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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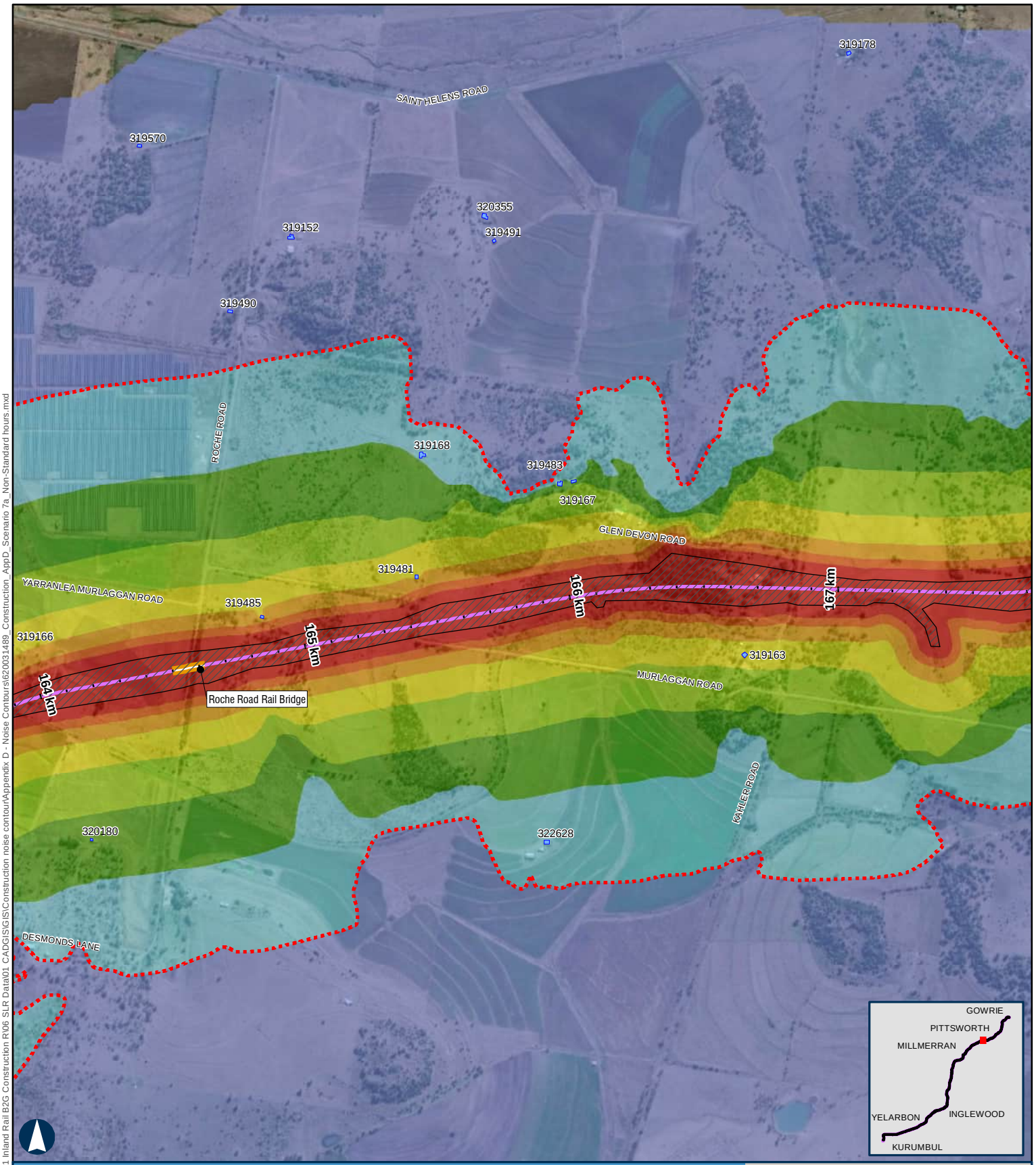

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 50 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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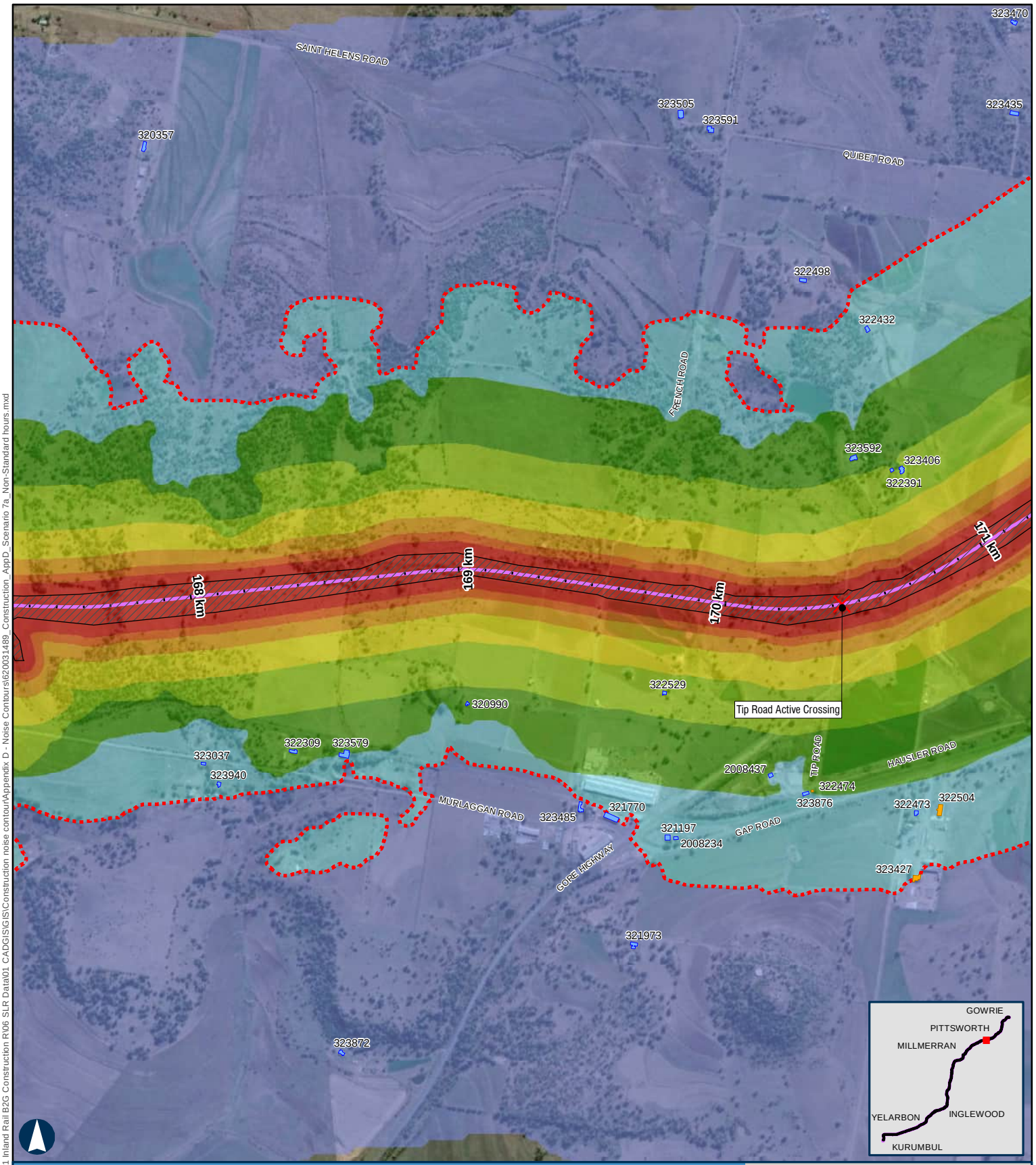

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 51 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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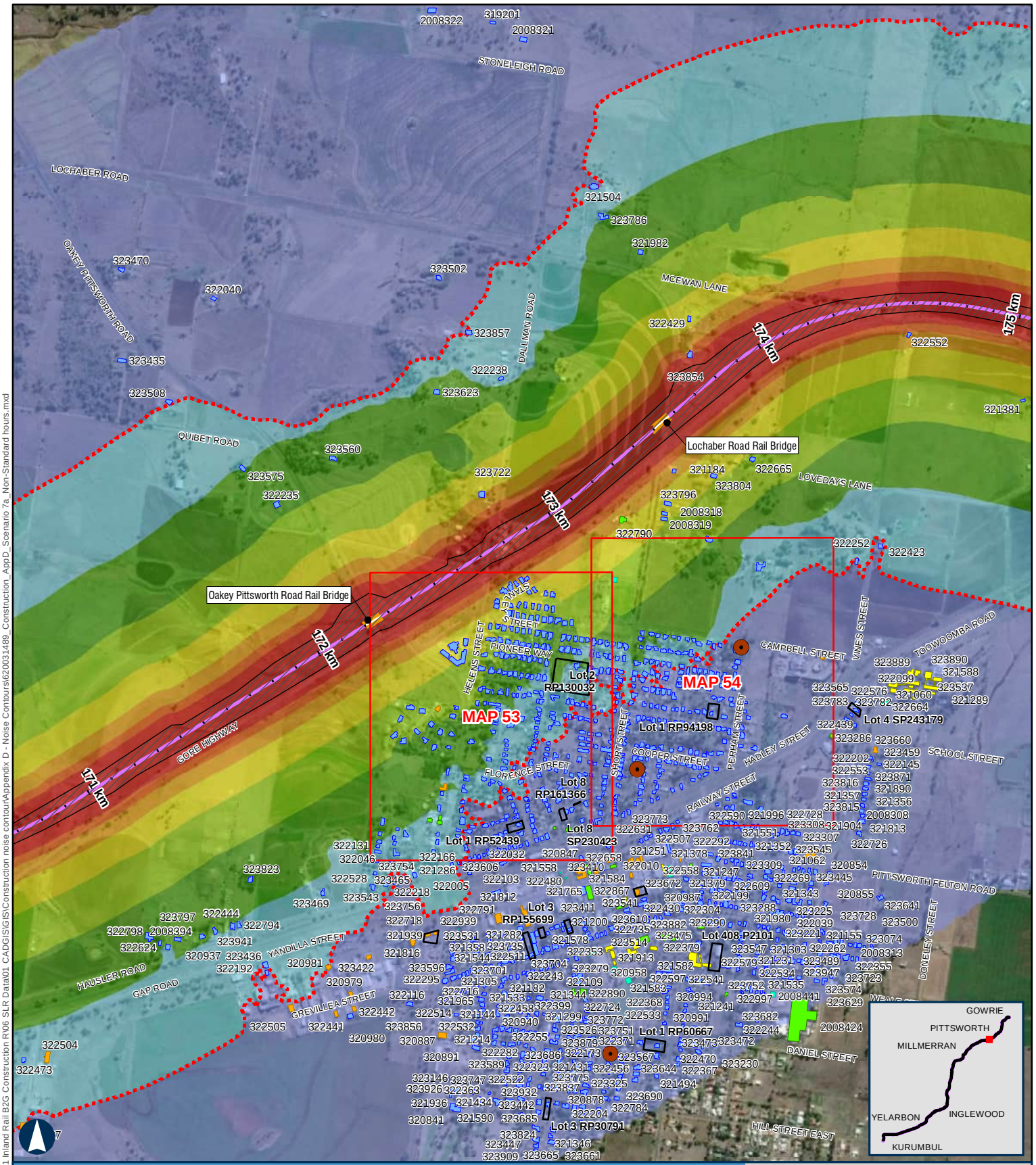

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 52 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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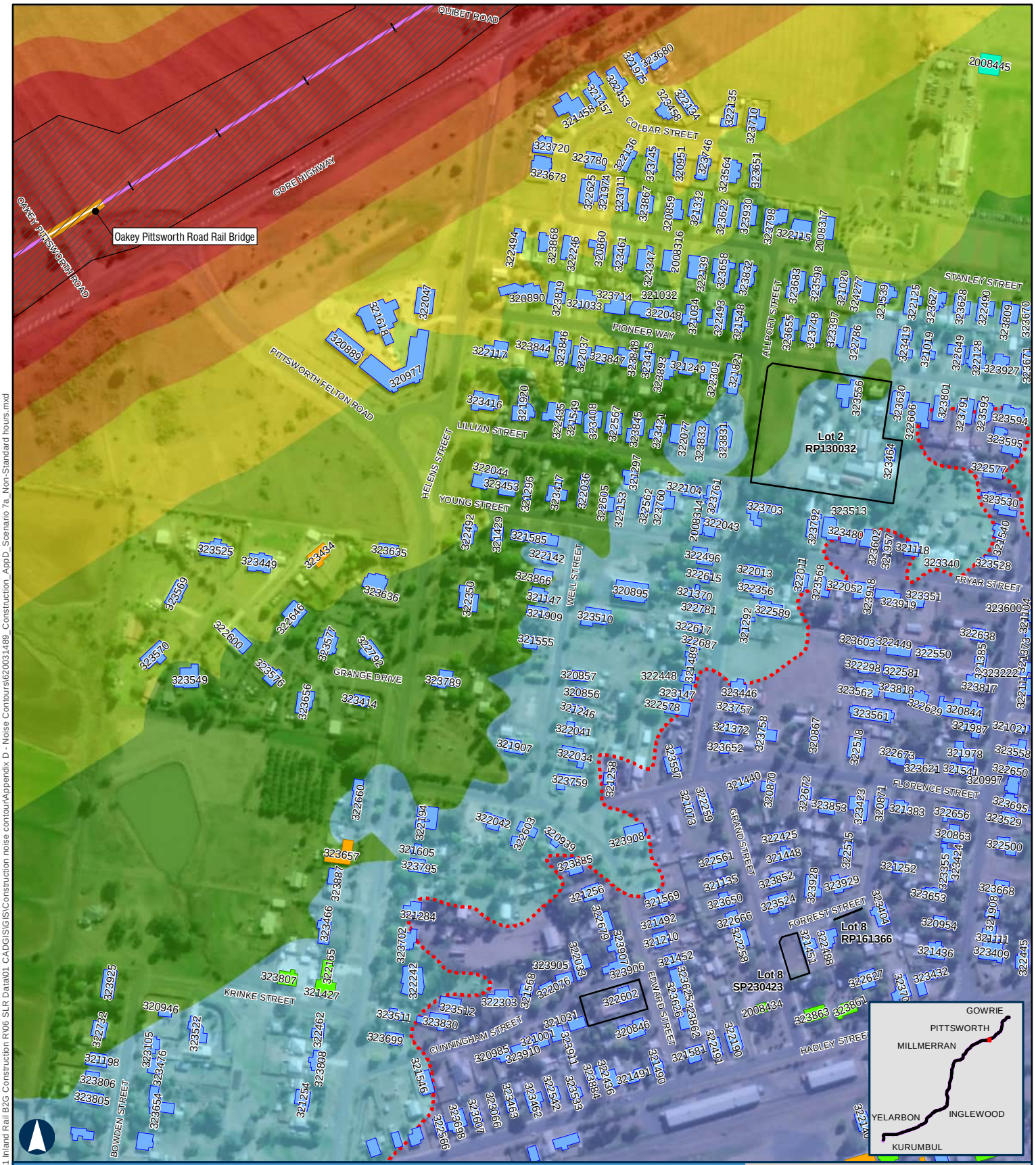

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 53 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 54 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:5,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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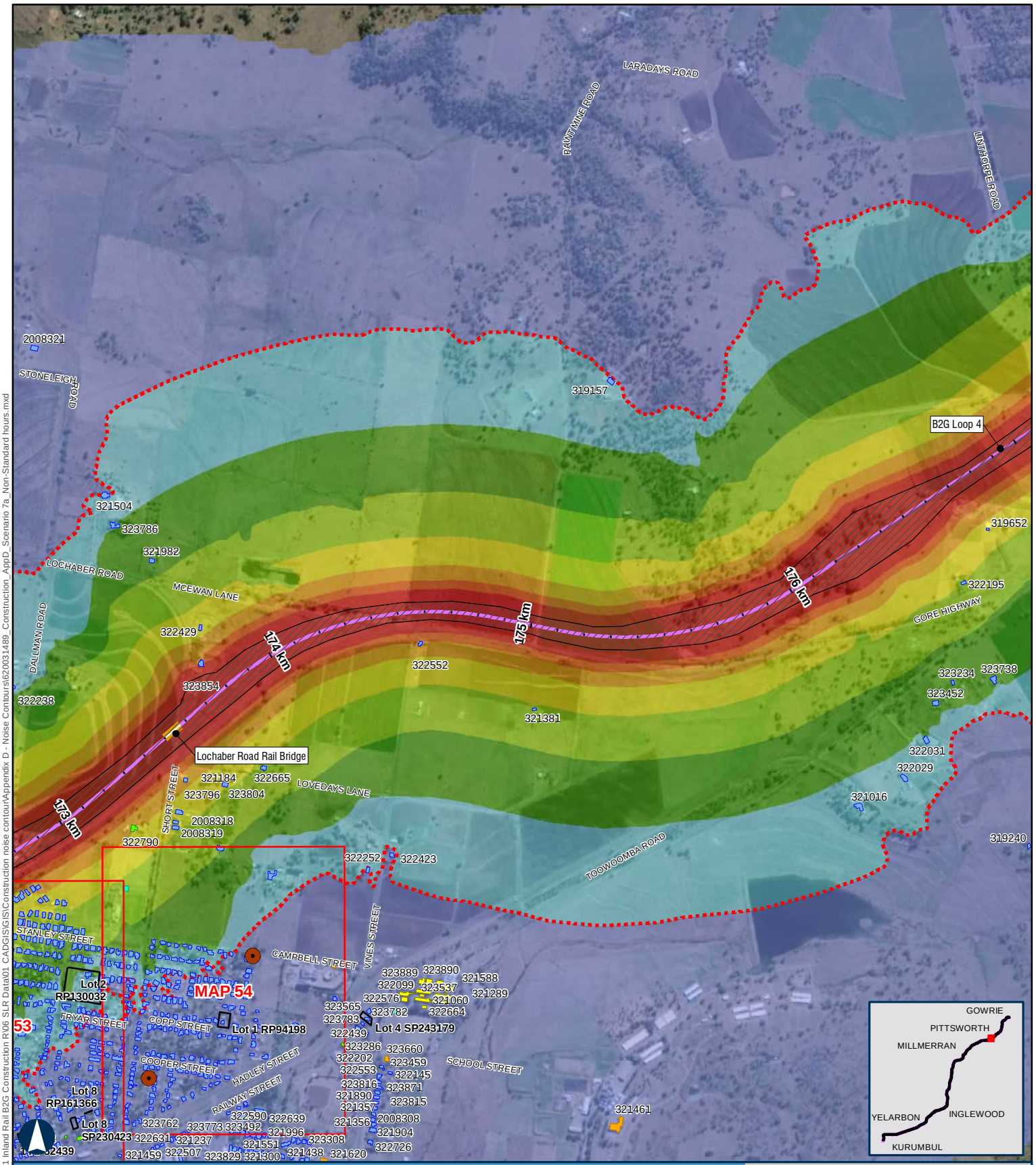

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 55 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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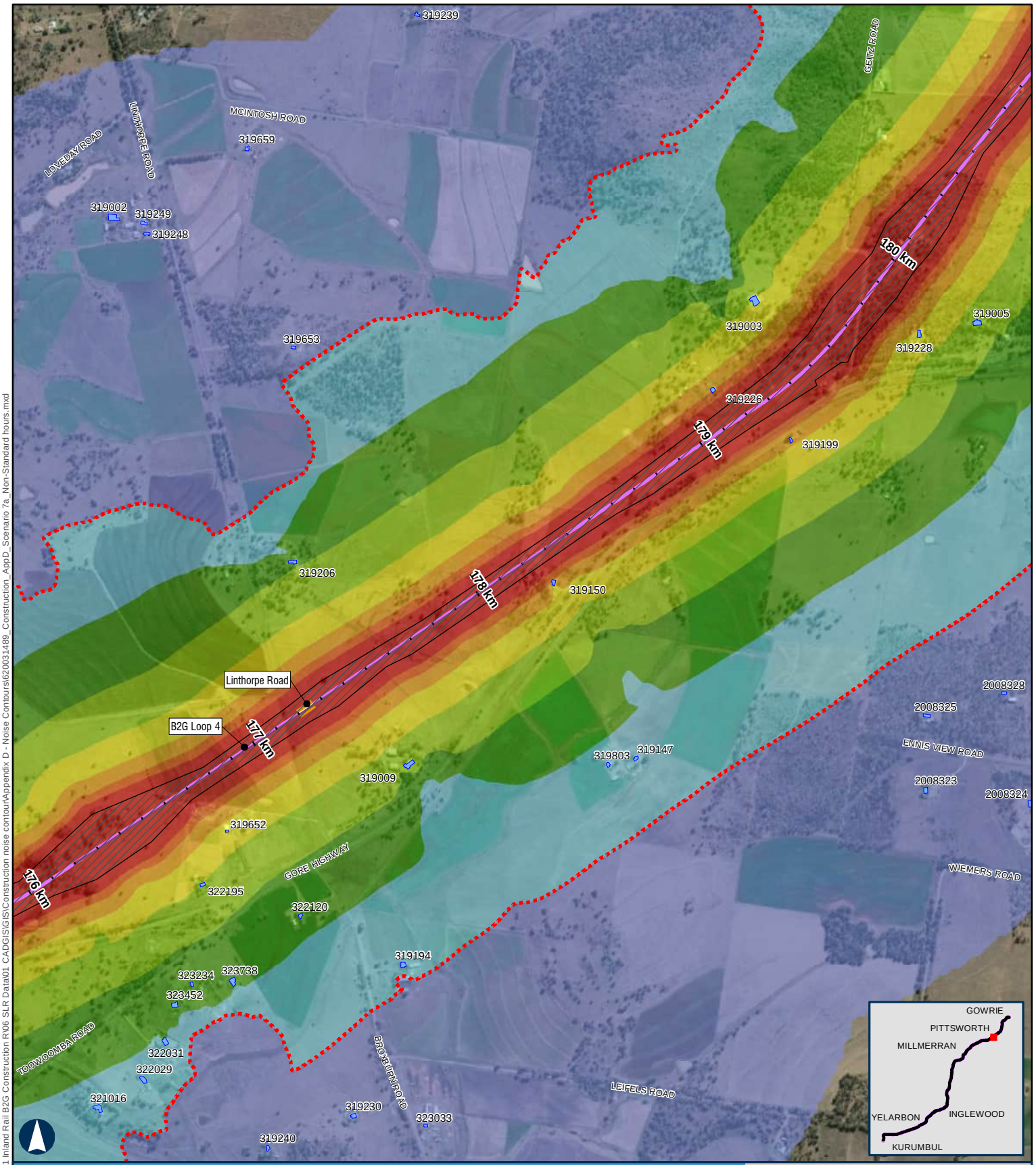

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 56 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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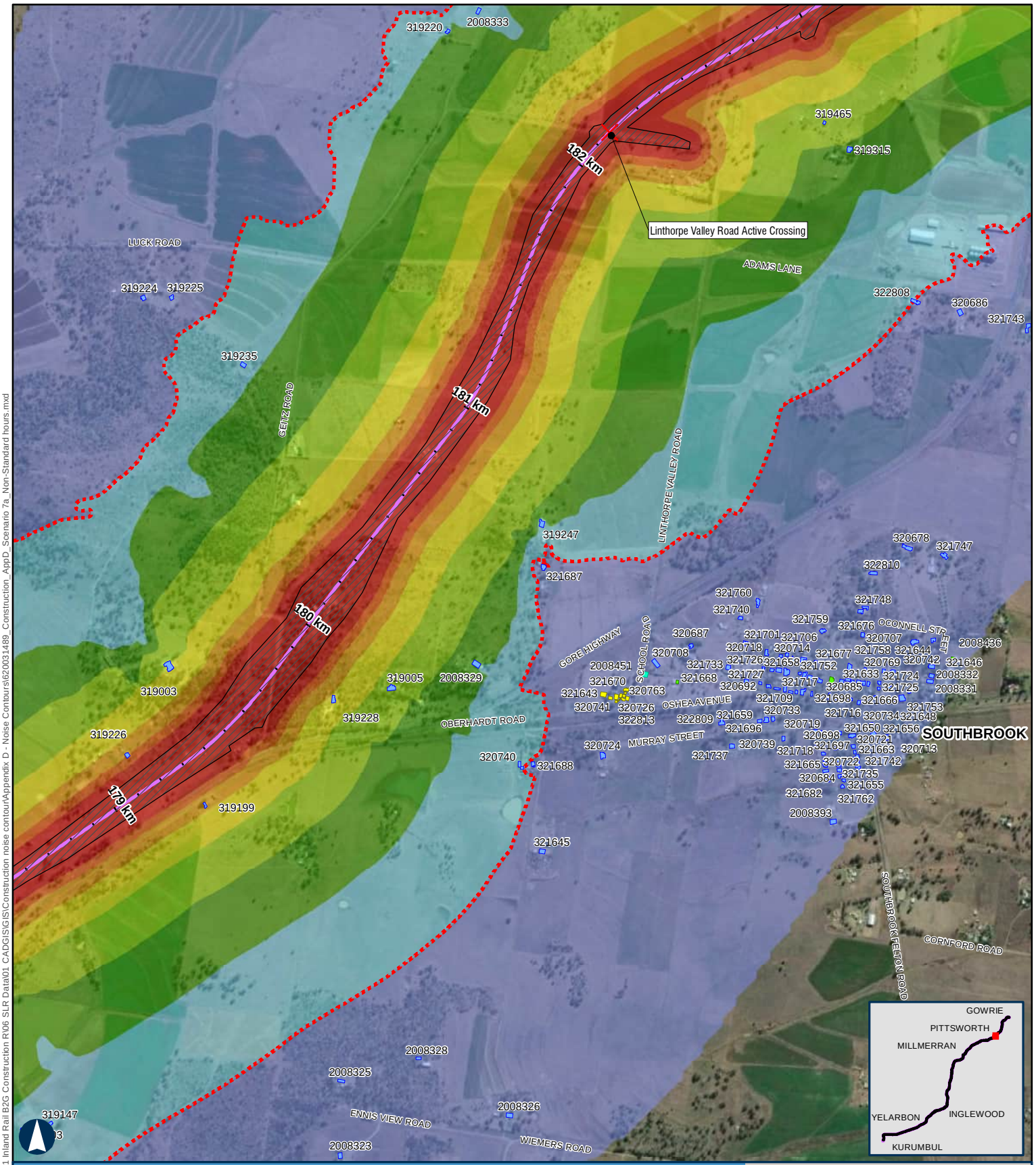

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 57 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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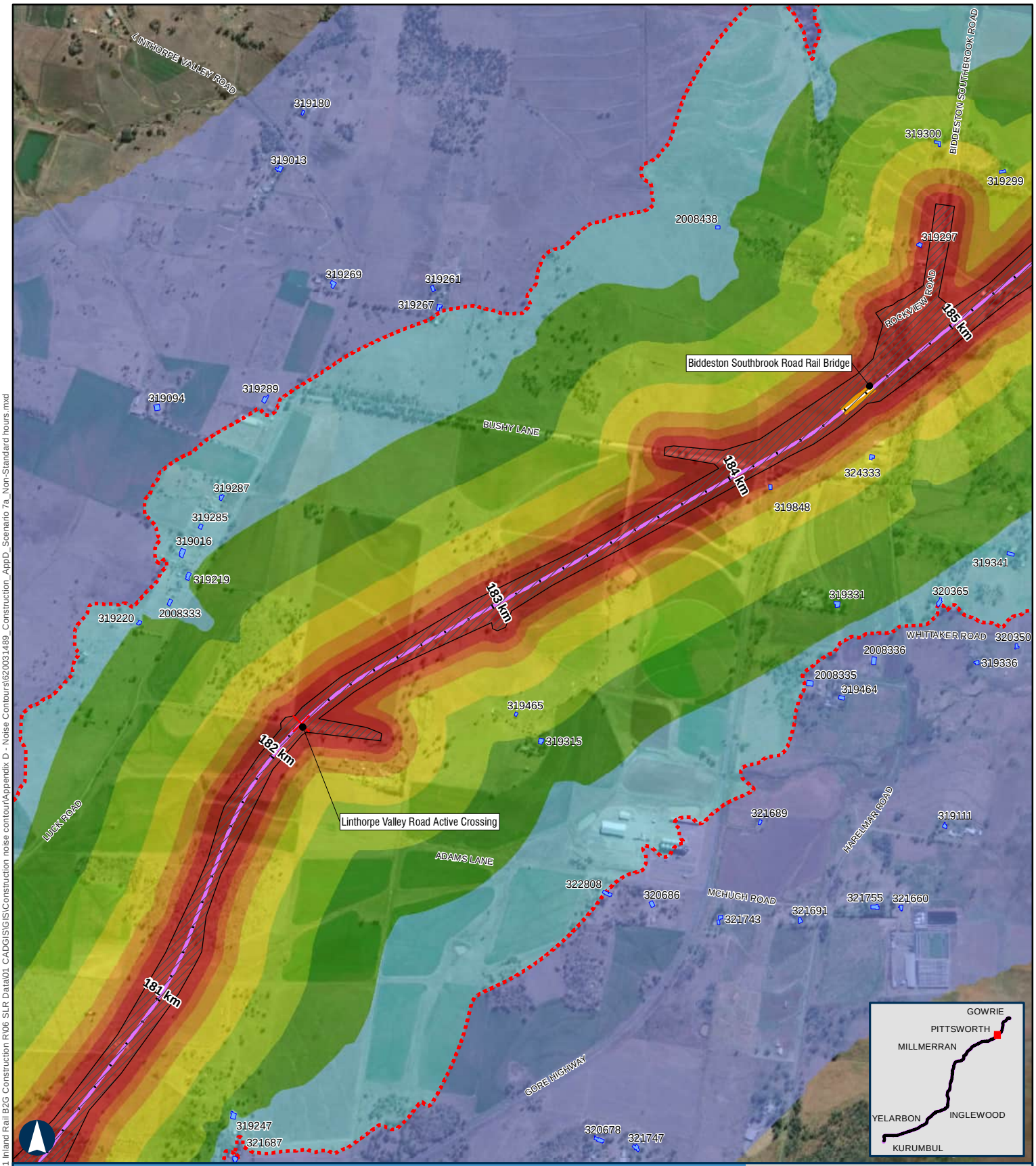

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 58 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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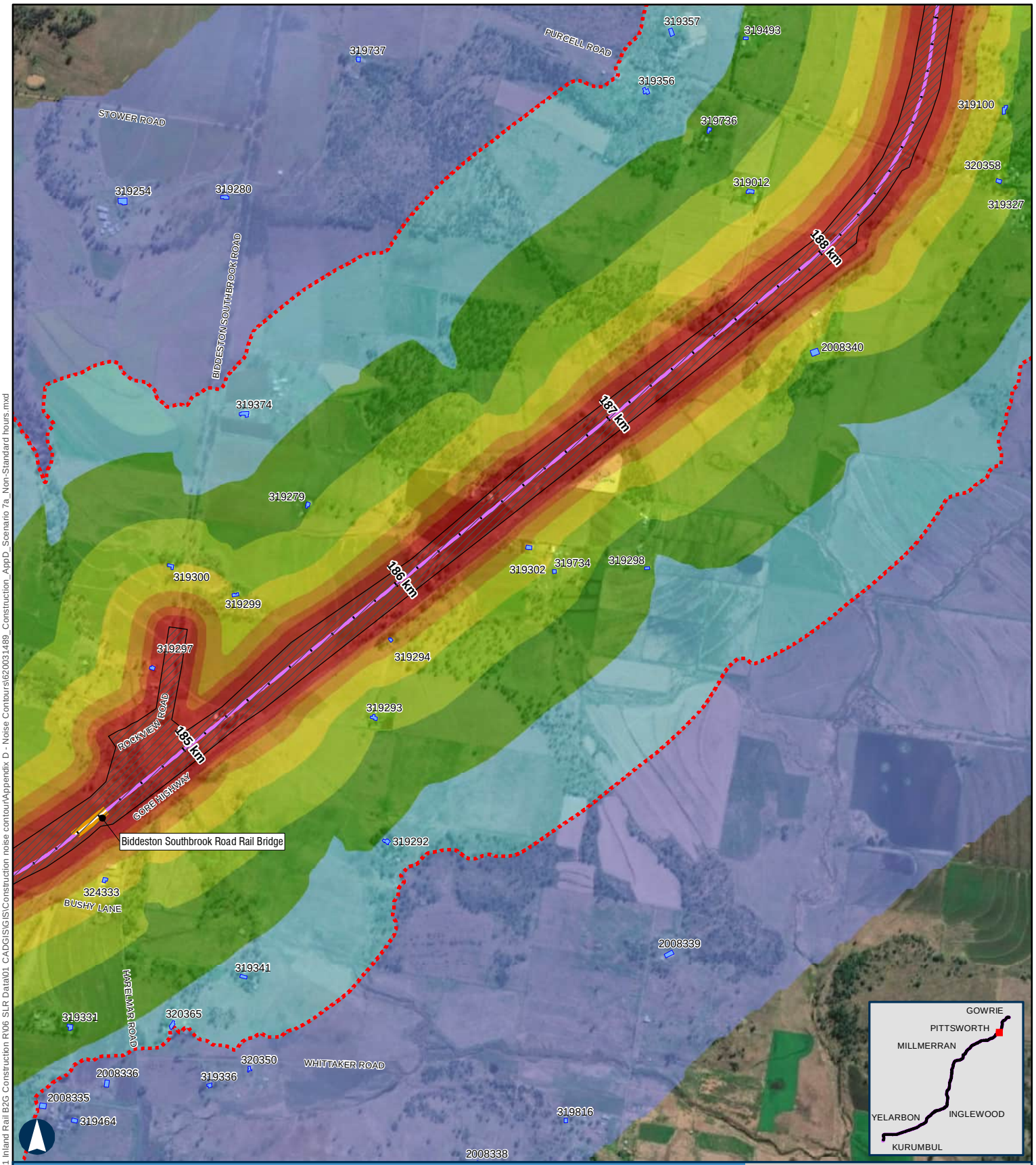

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 59 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:19,000
Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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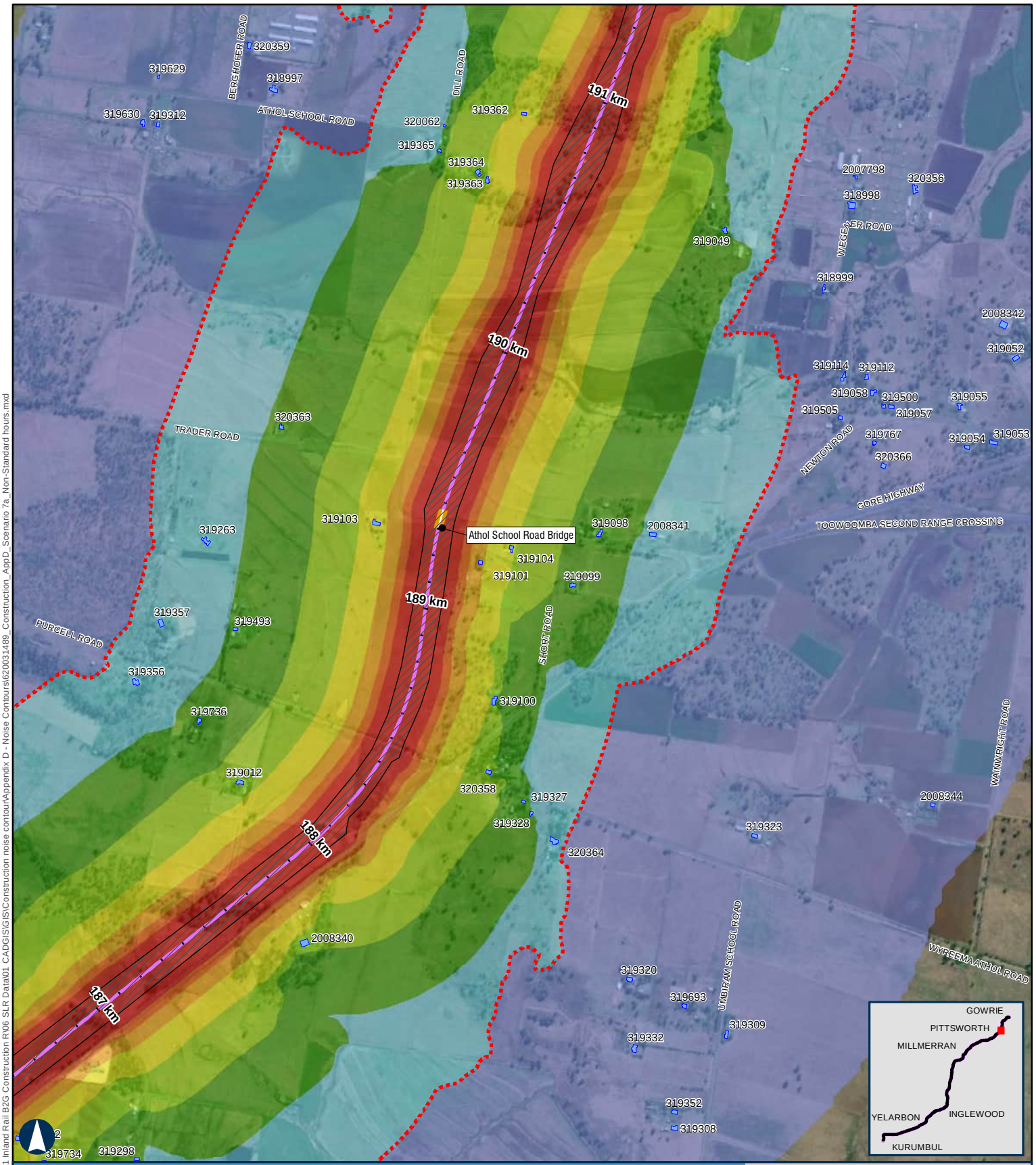

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 60 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type
- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels
- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
- 60-65 dBA
- 65-70 dBA
- 70-75 dBA
- >75 dBA

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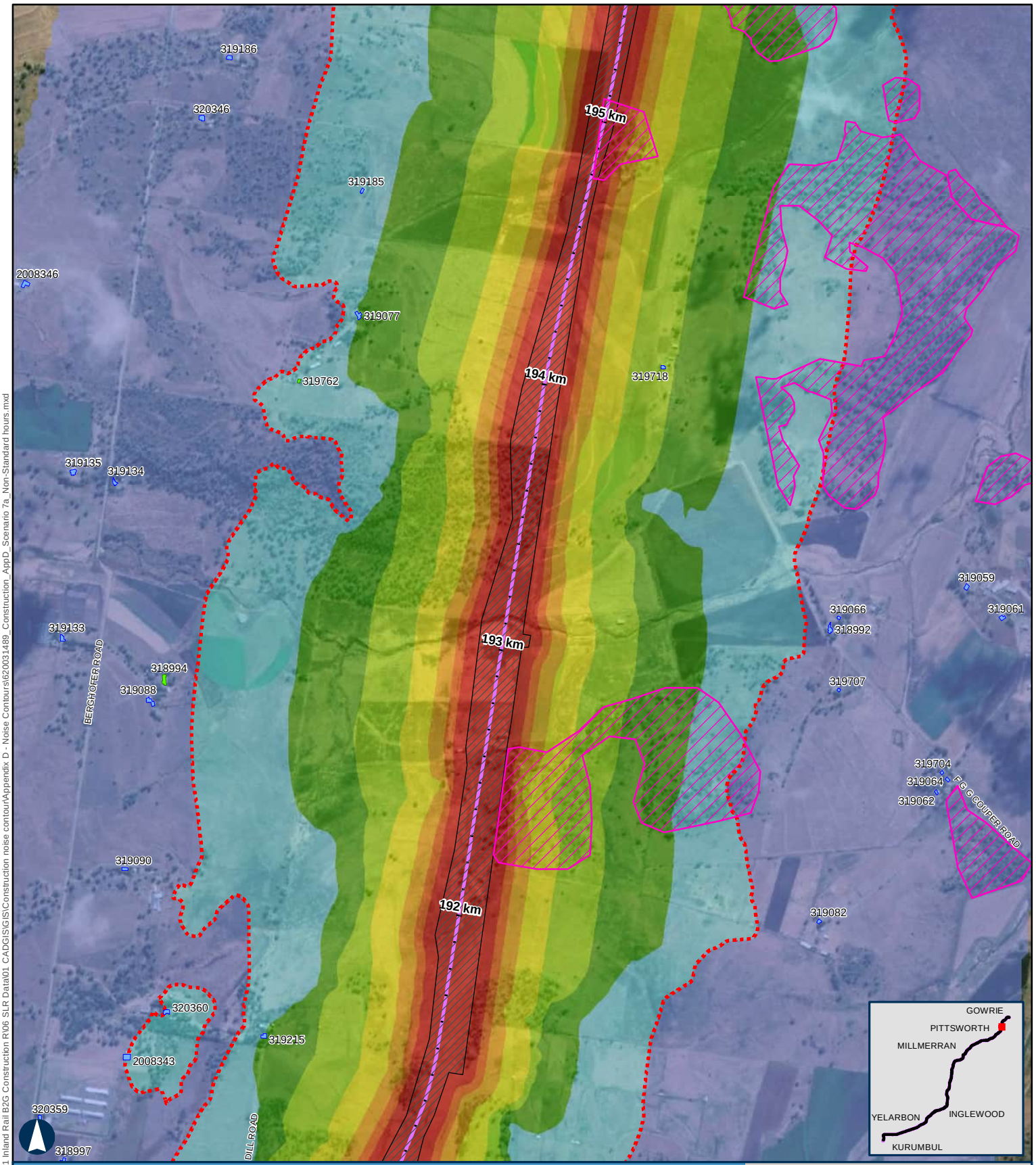

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 61 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

- <45 dBA
- 45-50 dBA
- 50-55 dBA
- 55-60 dBA
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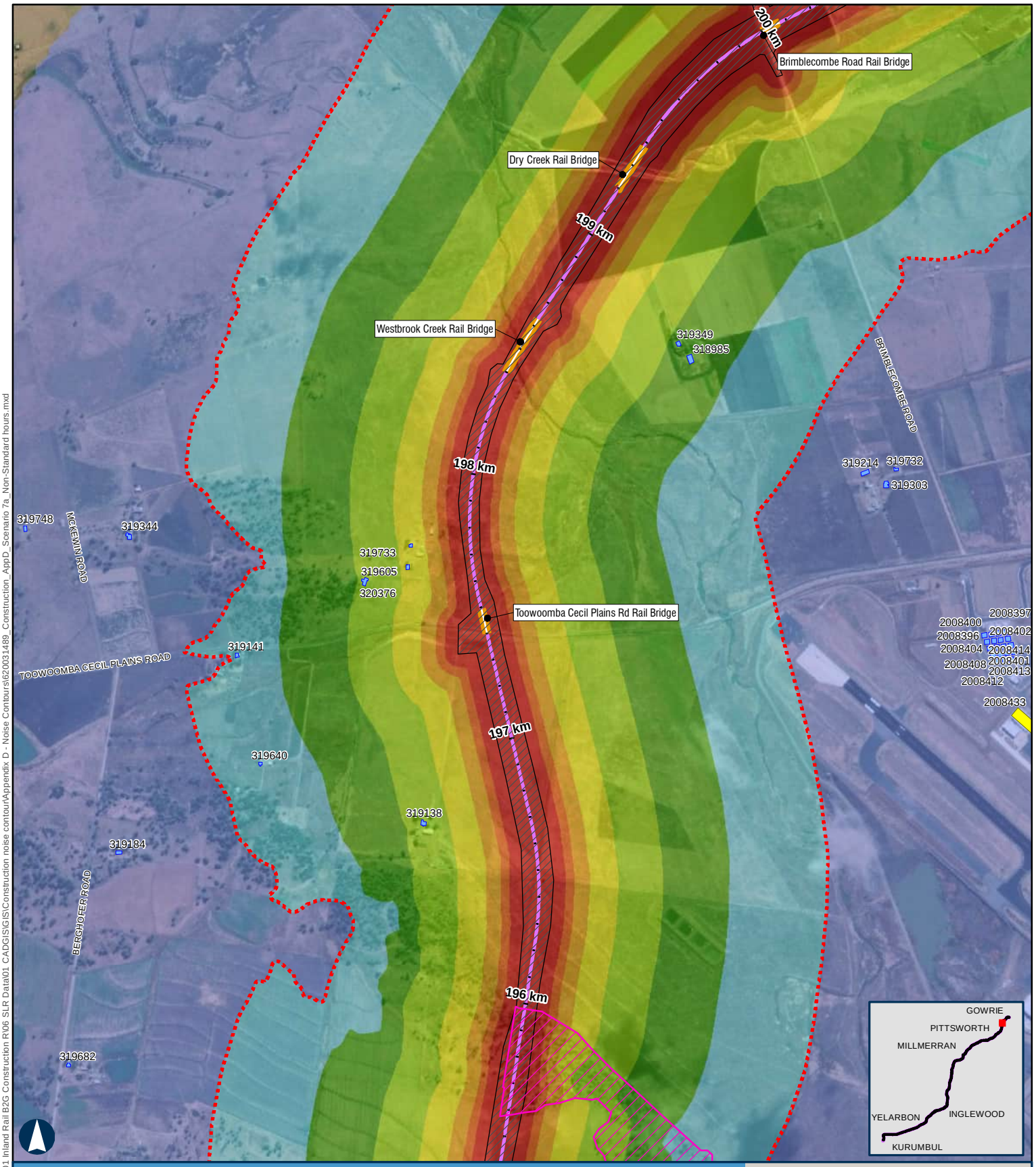

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 62 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
- Flying Fox Camp
- Criteria (45 dBA)
- Project Extent
- Crossing Loops
- Bridges and Viaducts
- Rail Alignment/ Centreline
- Work Area
- Koala Habitat Area

Sensitive Receptor Type

- Residential
- Community
- Educational
- Commercial
- Parkland
- Future Developments

Noise Levels

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- 45-50 dBA
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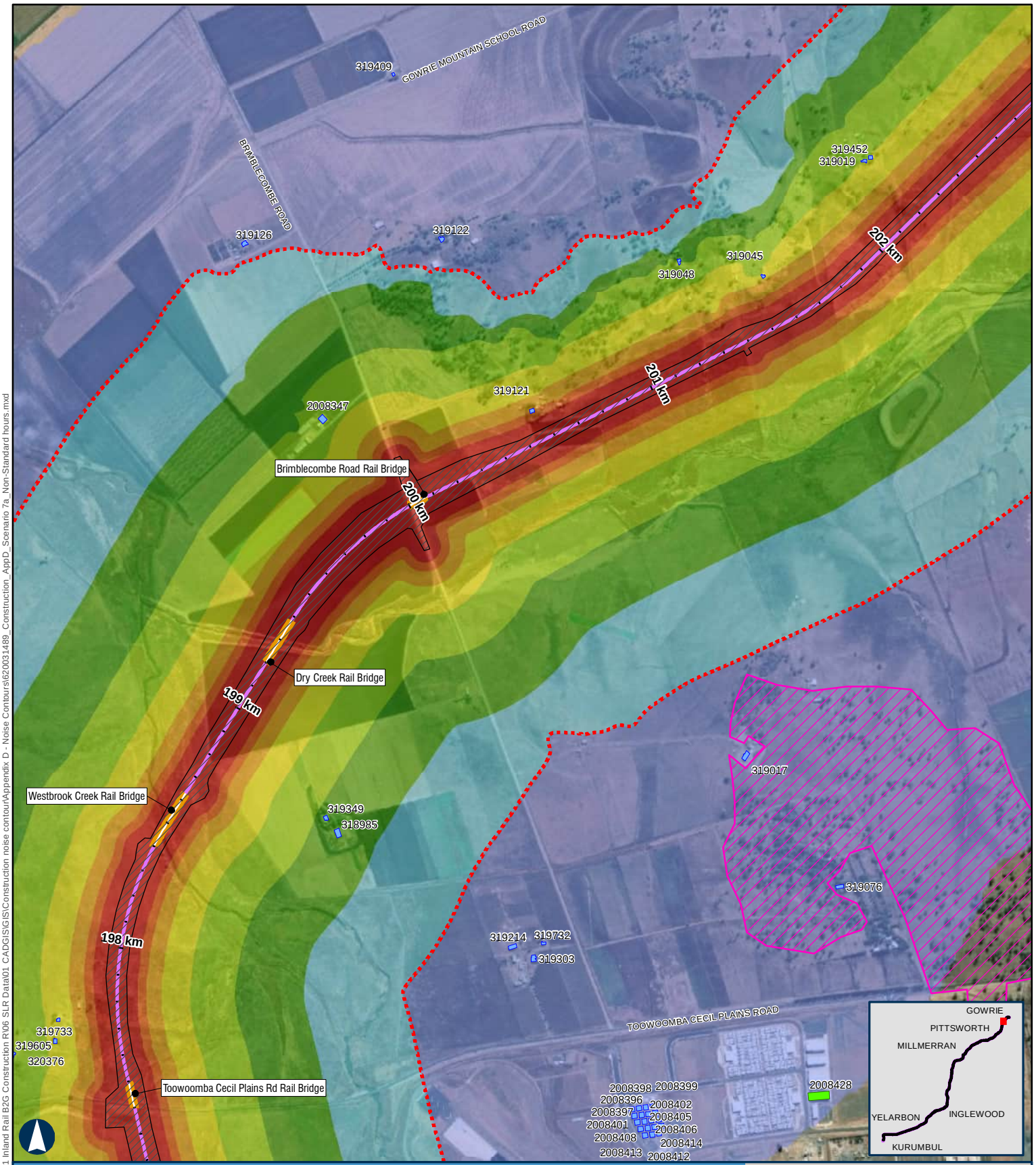

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 63 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Author: JG

- Level Crossings
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Sensitive Receptor Type

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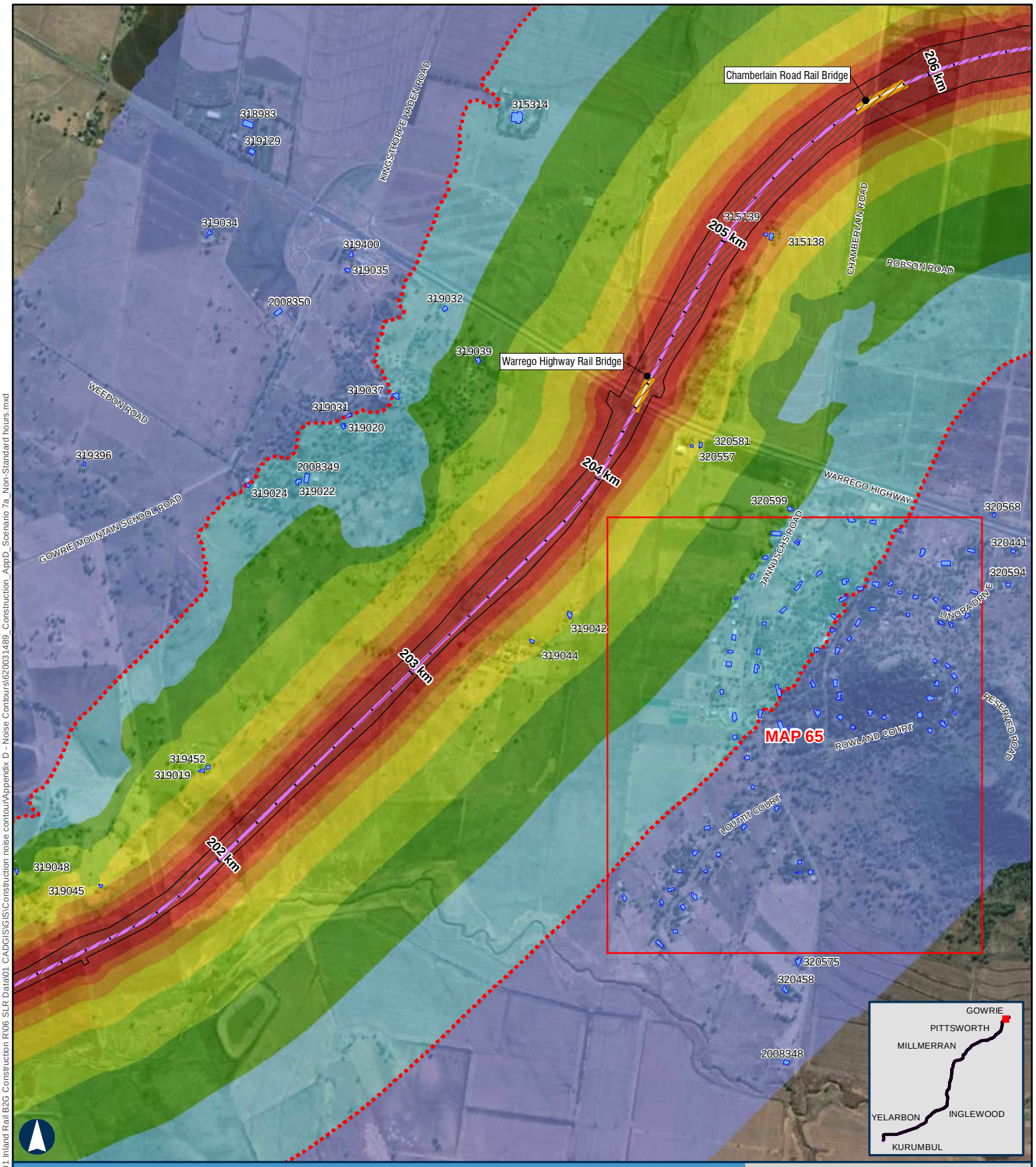

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 64 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Date: 12-Nov-2024
Author: JG

- Level Crossings
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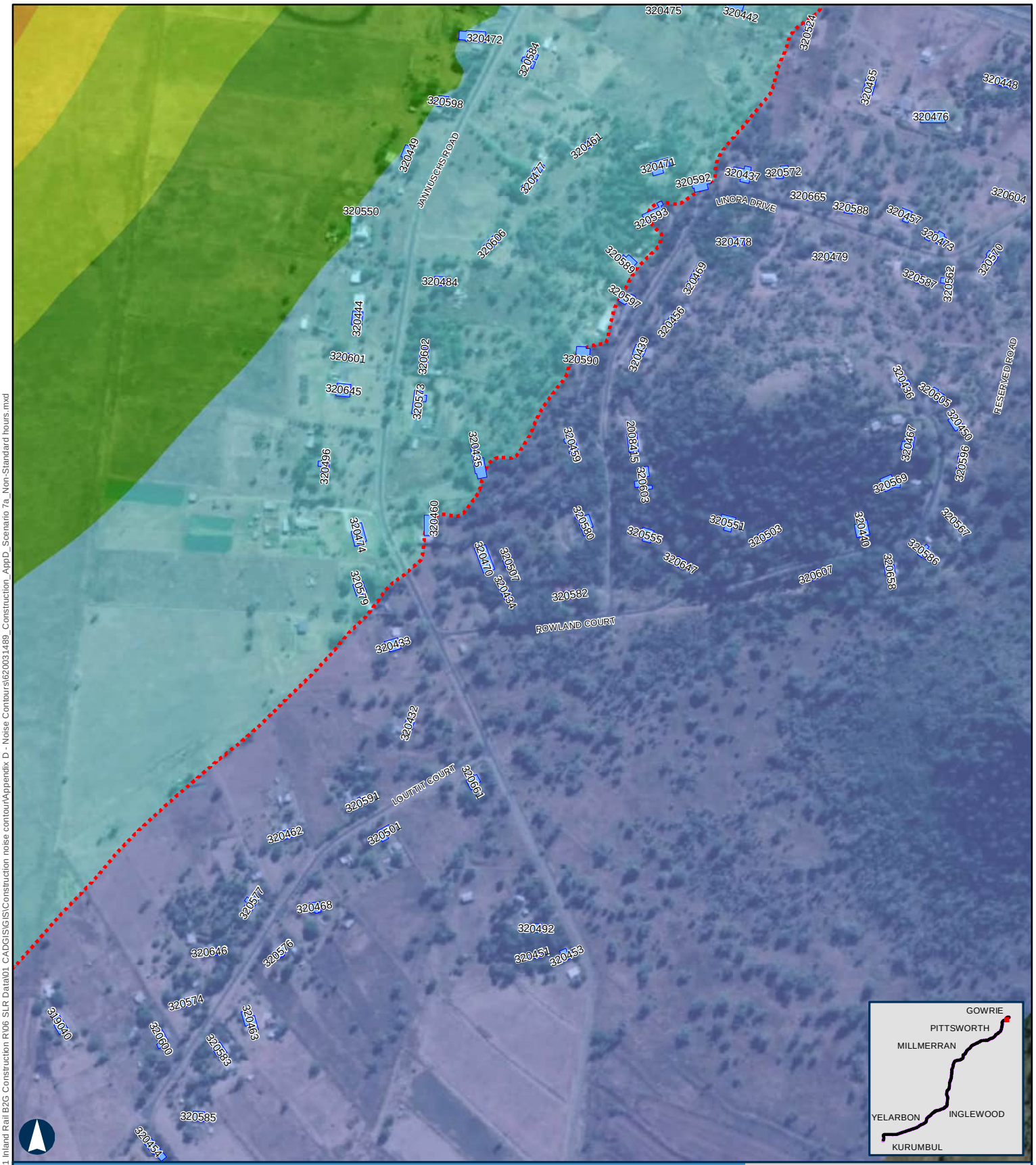

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 65 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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Paper: A4 Scale: 1:7,000
Date: 12-Nov-2024
Author: JG

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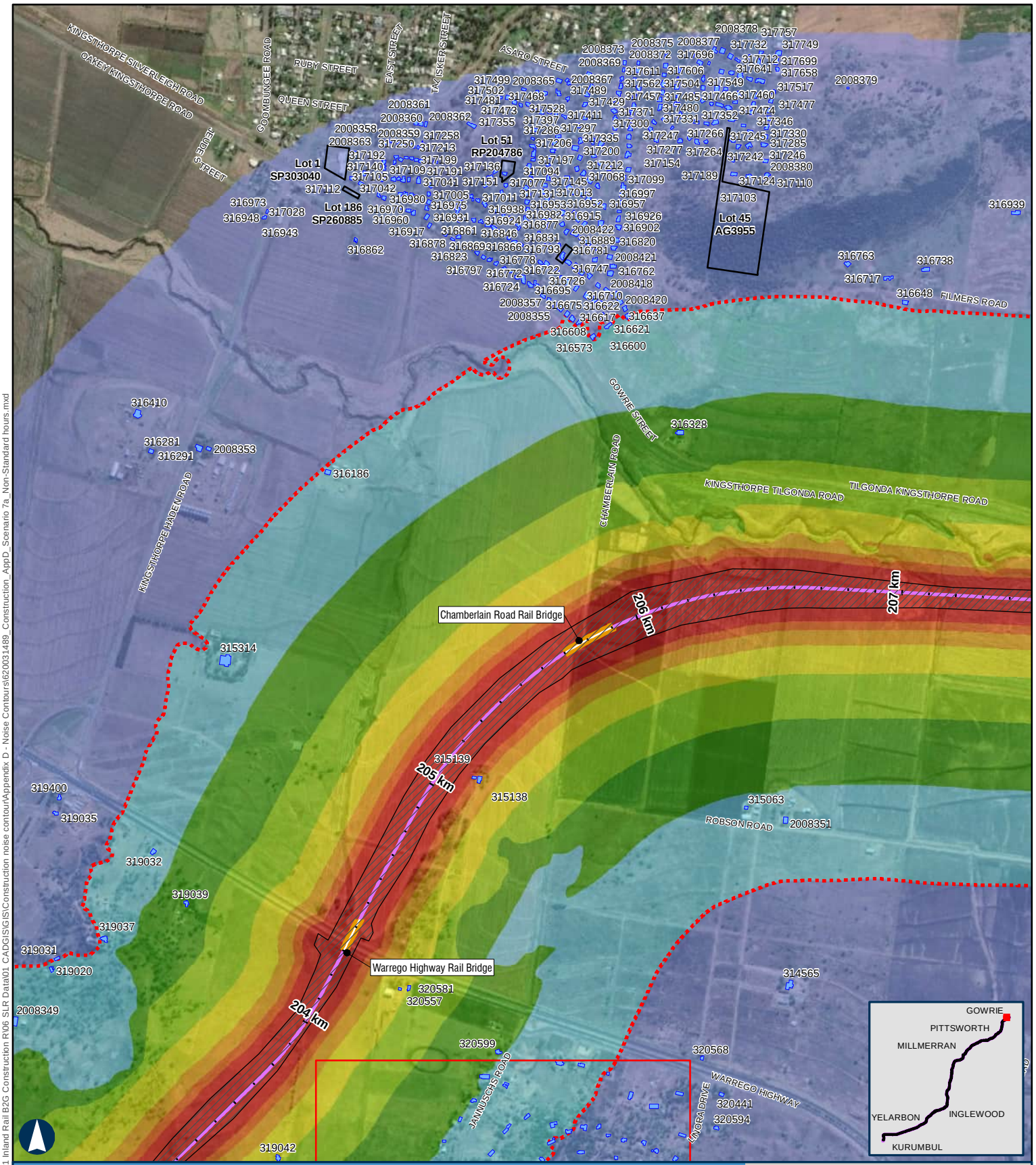

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 66 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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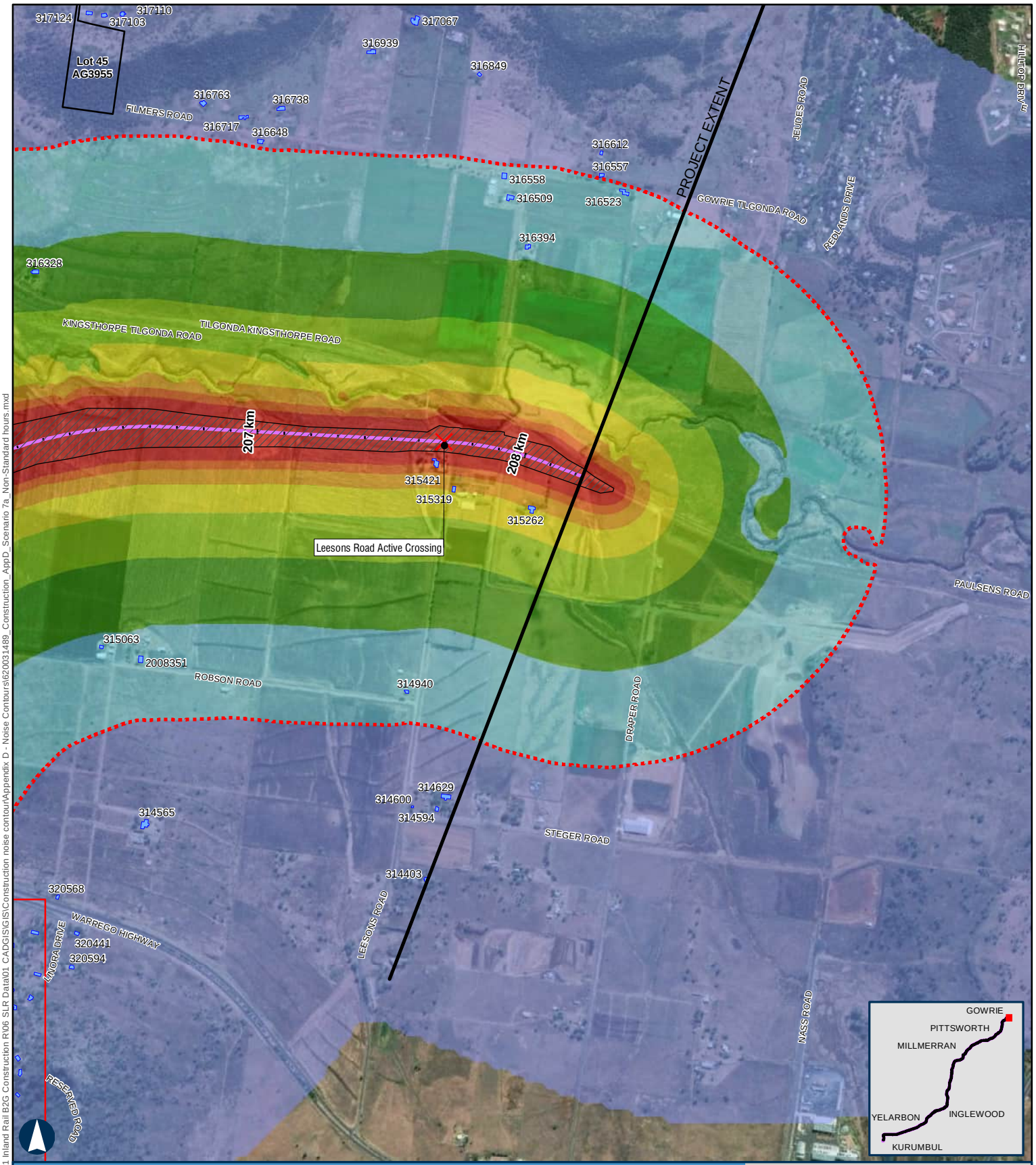

BORDER TO GOWRIE

Scenario 7a - Earthworks - Clearing & Grubbing Non-Standard Hours

APPENDIX D - MAP 67 OF 67

100 m

Coordinate System: GDA 1994 MGA Zone 56

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